# ANNUAL REPORT 2020-2021



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# TRIPURA UNIVERSITY

(A Central University)
Suryamaninagar-799022
Tripura, India



# From the Desk of the Vice-Chancellor

It is my privilege to present the Annual Report of Tripura University for the year 2020-21. The last year saw a journey from anxiety to relief. The resilience with which our university withstood the fangs of the second wave of the pandemic, like the rest of the country, has been exemplary, bringing immense relief to all the stakeholders of this institution who stood up to this grave challenge. With unstinted patience and steadfastness, our teachers, researchers and students strove hard to maintain and sustain the pulse and rhythm of academics and



research through the online mode. Daily academic activities pertaining to teaching and learning carried on unhindered on the institutionalized digital platform the Tripura University Online Learning Management System.

Amidst inevitable and unavoidable odds, the last year saw an unprecedented enrolment of 2166 students across 108 programs, out of which 52.7 % were women, 15,7 % from the SC category, and 36.5% from the ST category; while an additional 15.2 % students were from the OBC non-creamy layer category. A total number of 56 scholars were awarded the Provisional Ph.D degree.

To meet up with a prospective surge of student enrolment, a 200-seat capacity new Boys Hostel has been planned to attract more students from all regions of the country and even students from abroad. Construction work for the project has already begun with full force.

Through the last year the university has made a concerted effort to sensitize teachers on the implementation of the National Education Policy 2020 at the earliest. A national-level webinar was organized for the purpose in which distinguished educationists were invited from different parts of India to offer their valuable advice in the matter. Tripura University is committed to reap the benefits of the new policy through creation of competent human resource.

To combat Covid-19 a task force was formed. Two isolation centers, one for male and one for female were formed for the Covid-19 patients. Tripura University Health Centre has been equipped with pulse oximeter, oxygen concentrators, and oxygen cylinders for the Covid-19 patients. We have also organized 11 number of Covid-19 awareness webinars during the lockdown period for the benefit of stakeholders of the University.

I am confident that Tripura University has rich potential to excel in all areas of teaching, learning, research and extension activities in the Northeast region of India, with special focus on innovative research and skill development.

# **Members of Annual Report Committee 2020-21**

1. Prof. Chandrika Basu Majumder	Dept. of Pol. Science	Chair person
2. Prof. Shyamal Das	Dean, Faculty of Arts & Commerce	Member
3. Prof. Ranendu Kumar Nath	Dean, Faculty of Science	Member
4. Prof. Binod Chandra Tripathy	Director, IQAC	Member
5. Sri Mon Mohan Reang	Joint Registrar	Member
6. Sri Nirmal Reang	Dy. Finance Officer (i/c)	Member
7. Dr. Somdev Banik	Dy. Registrar Academic (i/c)	Member
8. Sri Muneendra Mishra	Assistant Director (Rajbhasha)	Member
9. <b>Dr. Champeswar Mishra</b>	Deputy Librarian	Member
10. Sri Surendra Kumar Pal	Assistant Librarian	Member
11. Dr. Abhijit Chowdhury	Assistant Registrar	Member
12. Sri Newin Mog	Assistant Manager	Member
13. Sri Jayanta Datta	Statistical Officer	Member-Secretary

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Tripura University was established as a State University on 2nd October 1987 and was converted into a Central University on 2nd July 2007 by an Act of Parliament to establish a teaching and affiliating university in the state of Tripura. The kings of Tripura, since 1947 onwards, guided by a zeal for education and inspired by a vision to excel, established many colleges in this green hilly state - all affiliated to the University of Calcutta. But the geographic distance from the University of Calcutta being a formidable deterrent, it was virtually impossible on the part of a large number of poor students of Tripura to continue further studies after graduation since postgraduate education within Tripura was not yet initiated. The political history of Tripura since 1960s, replete with students' movements, had consistently harped on the demand for expansion of opportunities for higher education and the establishment of a separate University in the state of Tripura. Initially, the Calcutta University authority agreed to offer post-graduate classes in History, Mathematics, and Economics at the MBB College campus and the University Grants Commission (UGC) formally recognized the Calcutta University Post Graduate Centre (CUPGC) in 1976. But the dream for a full-fledged University within the state was yet to be fulfilled and students' demands gradually gathered momentum for a separate university for the cause of higher education in Tripura. For a decade, the CUPGC with all its limitations functioned as the highest centre of learning in the state, operating from various scattered old government buildings at College Tilla, Agartala. In spite of severe financial constraints, land for a new campus was selected by the state government for the CUPGC in a green 75-acre, semi-urban setting on the National Highway at Suryamaninagar, about 9 kms south of the capital city Agartala. With the aim of setting up a fullfledged University at that location in near future, the foundation-stone was laid at Suryamaninagar campus on 18th December, 1985 by Dasaratha Deb, the legendary leader of the historic Janasiksha (People's Education) movement and the-then Deputy Chief Minister and Education Minister of Tripura. Taking into consideration the long-cherished demands of the student-community and the growing aspirations of the people at large and also acknowledging the present and future needs of education in the state, the State Government took the initiative to pass the Tripura University Act in the Assembly in 1987 and finally the first University in the state came into being. This was indeed a dream come true.

After its up-gradation to a Central University in 2007, the overall development of Tripura University has been conspicuous by all round efforts undertaken to strengthen the infrastructural facilities and academic acumen. The University is dedicated to the cause of developing and empowering the people of this state and the region by imparting quality education and technological innovations in the field of academic and research activities. The picturesque beauty in an idyllic surrounding of the campus provides the right academic ambience for nurturing young and potential minds.

As a conventional University, Tripura University has taken upon itself the responsibility to preserve and promote the enviable heritage of the state's indigenous art forms, folk, oral and multi-dimensional cultural traditions. At present there are two faculties, forty four Departments and four Centres of Study in the University along with four departments under the Directorate of Distance Education. The Directorate of Distance Education extends educational support to the employed and socio-economically deprived sections located in the far flung hilly areas of this state.



The future plans of the University include expansion of the campus and immediate installation of ICT enabled classrooms in all the departments, more hostels for men and women including research scholars hostels, improved canteen, guest houses and accommodation for the faculty and non-teaching staff, employment of modern technological tools and facilitating multimedia mode of interactive teaching- learning. In order to adapt with the demands of the changing times, the University has largely changed over to e-governance for efficient, accurate and eco-friendly administration.

Tripura University is accredited by NAAC in Grade B with CGPA of 2.63 on four-point scale. The University has also obtained recognition from AICTE, NCTE and similar other apex bodies for offering academic courses.

At present the number of colleges affiliated to the university is 51, consisting 26 general degree colleges, and 25 professional colleges.

#### **Location, Climate and Connectivity**

Located in the green picturesque state of Tripura, whose undulating topography comprises of low lying hills shrouded with dense vegetation cover and interspersed with meandering rivers, rivulets and streams, the sprawling green campus of the university is an eye-catcher. Situated in West Tripura District about 9 km away from the City of Agartala and 24 km from Agartala Airport (Singerbill Airport), Tripura University is easily accessible by road.

The state is well connected with Guwahati, Silchar and Shillong by road. A daily bus service from Kolkata to Agartala through Bangladesh has also taken off, for which a transit visa is needed. Agartala is also directly connected to Guwahati, Kolkata and other North-eastern cities and with other metros via Guwahati or Kolkata by air route. The earlier meter gauge railway line connecting Agartala to Lumding and Guwahati has been upgraded to broad gauge. Of late Rajdhani Express has also been introduced connecting Tripura to New Delhi and the rest of India. The average temperature of Agartala in summer is about 30°C and in winter, about 15°C.

#### **Implementation of NEP 2020**

From a humble beginning as the Post-Graduate Wing of Calcutta University, in 1976, to a State University in 1987 and eventually a Central University in 2007, Tripura University has traversed a long way in its pursuit of excellence as a higher education institution in this tiny landlocked state of Tripura. At present, there are forty-four Departments and four Centres of Studies in the university, along with four departments under the Directorate of Distance Education. The university offers 110 programmes encompassing 41 PhD programmes, 56 postgraduate programmes, five undergraduate programmes, two vocational programmes and six postgraduate diploma courses. To adapt to the demands of the changing times, the university is gradually changing over to e-governance for efficient, accurate and eco-friendly administration. The university has already constituted a task force for the formulation of a comprehensive roadmap for the effective implementation of NEP2020.

Various the details of initiatives taken by the university are as follows.

 Total 35 programmes offered by the university are based on a multidisciplinary education approach.



- Total 98 out of 110 programmes offered by the university are based on Learning Outcome Curriculum Framework (LOCF).
- Around 20 % of the syllabi of 30 UG/PG programmes have experiential learning components.
- The university offers Multiple Exit options in nine Integrated PG Programmes, viz. Bengali, English, History, Philosophy, Economics, Mathematics, Rural Studies, Hindi and Commerce.
- The University offers skill development courses under 42 different programs.
- The university adopted 80 online courses for Credit Transfer of SWAYAM. During the 2019-20 session, around 65 final semester students completed their courses with credit transfer. In the 2020-21 session, 1886 students got enrolled under NPTEL courses, and 248 students successfully passed their courses.
- For the promotion of regional languages, a total of six programmes are being offered at Tripura University, including Integrated PG/UG/PhD programmes in Bengali and Kokborok languages.
- To facilitate skill-based/experiential learning, an incubation centre has been set up at Tripura University.
- The university has registered in the National Academic Depository, and records of 12277 beneficiaries have been uploaded since 2020 on NAD.
- The process for implementation of various transformative educational reforms of NEP2020 has been initiated at the university.
- The university has organized three webinars and an awareness programme for capacity building, awareness and implementation of NEP2020.

#### **Facilities and Services**

#### **University Library**:

The Central Library is committed to providing evidence-based innovative services, resources, and facilities for teaching, learning, research, and innovation. The Central Library acts as a 'Knowledge Hub' in collecting, organizing, and disseminating the widest possible access to information for its users. The Library constantly reviews its services and resources based on the feedback of the users by adding value-added services and resources. The Central Library gives more emphasis on supporting the teaching and research activities in University.

The Central Library has a wide range of collections such as 149026 print books, 90 Print journals, 23 Magazines, 31628 e-books, 535 thesis, 160 bound volumes, 23 newspapers, 1300 CDs/DVDs, etc. into it.

The Central Library relentlessly provides uninterrupted online user support to the entire users' community both in and out of the University through the "Remote Acces" platform. The users can access more than 31628 e-books, 14 online databases through e-ShodhSindu, and 10 e-databases, subscribed by Tripura University, covering financial statistics, Government reports, Company profiles, abstracts, and metadata of more than one lakh e-books. The Central Library makes continuous efforts to ensure that users are using Library resources efficiently and effectively. To



sensitize in maximizing the use of various e-resources, the Library conducted several orientation programmes both offline and online which resulted in tremendous surge of usage of resources by the users. The Central Library receives support from the E-ShodhSindhu consortium for access to 14 additional online databases and many research journals.

As a part of the research initiatives, the Central Library has developed 'Institutional Repository (IR)' using open source software for archiving the scholarly outputs of the University in digital mode. Further, the Central Library has successfully implemented IRINS (Indian Research Information Network System ) and Vidwan Expert Database. The Central Library has access to anti-plagiarism checking platform i-Thenticate and academic research writing tool-Grammarly.

The Central Library is always committed to providing the best resources and services to its users. It offers evidence-based innovative services such as Online circulation, Online membership, unique collections, Anti-plagiarism service, Document delivery service, Research and citation support, Reference Service, Digitization services, e-Library Lab, Reprographic Service, Newspaper clipping service, New arrival alert, Ask-a-Librarian, Department Library, etc. to its users. Research integrity is one of the key components of research. The Central Library strictly follows research ethics and sensitizes users about the importance of Copyright, Fair use, and Anti-plagiarism policies.

#### **Computing Facilities:**

Tripura University takes proper measures to provide all possible computing facilities to the students, scholars and faculty. There are 5 general computer centres and 9 departmental computer centres with approximately 400 desktop computers. The computer centres are accessible to the students, research scholars and faculty during the University working hours for optimal utilization. Lab classes of Computer Skill-I and II are conducted in the above computer centers. For better access internet facility is available in all departments, centres, offices, hostels and staff quarters 24x7. Wi-Fi facility has also been made available for mobile phones and laptops in the central library, Guest house and all the departments. To work at times of power-cut, high capacity central UPSs are installed in most of the departments and offices for providing back-up during power failures.

#### **Central Instrumentation Centre:**

Tripura University has established Central Instrumentation Centre to facilitate the Researchers of this University as well as Researchers from other Universities and Institutions of North-East as well as other parts of India. While using this Centre the researchers from outside Tripura University may avail accommodation in the Tripura University Guest House. In this academic year 39 research papers have been published using the facilities installed at CIC.

#### **Committee for Central Instrumentation Centre:**

Prof. Swapan Majumdar, Chairman

Prof. Debasish Maiti, Member

Dr. Utpal C. Dey, Member

Dr. Shiv Shankar Singh, Member

Dr. Surajit Bhattacharjee, Member

- Dr. Anirban Guha, Member
- Dr. Bimal Debnath, Member
- Dr. Harjeet Nath, Member
- Dr. Syed Arshad Hussain, Coordinator

#### List of Instruments available in Central Instrumentation Centre:

- 1) Atomic Force Microscope (AFM) (INOVA, Bruker)
- 2) Field Emission Scanning Electron Microscope with EDS & Sputter Coater, (Sigma 300, Carl Zeiss)
- 3) 400 MHz NMR (Bruker)
- 4) Liquid Nitrogen Plant, (StirLITE, Stirling Cryogenics)
- 5) Gas Chromatography-Mass spectrum (GCMS) (Varian 220-MS / 450-GC, 230V Agilent service)
- 6) High performance liquid chromatography (HPLC) (Dionex U3000)
- 7) GSV4004B GPS Ionospheric Scintillation & TEC Monitor (GISTM)
- 8) Lifetime Spectrofluorometer, (FluroLog-3, Horiba)
- 9) CHEMIDOC
- 10) Immunofluorescence Microscope (Carl Zeiss)

#### Website of CIC:

https://cictu.wordpress.com/ https://www.tripurauniv.ac.in/Page/InstrumentationCentre

#### **Hostel Accommodation:**

Fully computerized internet enabled hostel facilities are provided to students from outside the state/country, remote parts of the region and economically backward classes. Presently, there are three hostels for women and men with 260 and 110 seat capacities respectively. Two more hostel buildings having separate rooms and attached bathrooms with 50 seats capacity are available for research scholars. Common Rooms with various recreational facilities and reading rooms equipped with reading materials and magazines, news papers, T.V. etc. are also available in both the hostels. The hostel mess serves food to the boarders according to a prefixed menu determined by the boarders themselves.

#### **Health Services**:

Tripura University has its own Health Centre with two full time doctors (Male and Female), two nurses, a medical laboratory attendant and a female attendant to serve students, teachers, employees, officers, guests and their family members. A separate building has been allotted for this purpose where some beds with saline and oxygen facilities are available. Further, the University possesses an Ambulance with basic facilities in case of emergency to transfer patients to nearby hospitals.

#### **Bank and Post Offices:**

The University caters adequately to the requirements of the students, scholars and faculty with incampus SBI branch and Post office during university hours. There are also two ATMs in the university campus.



#### Games & Sports:

The Sports Board of Tripura University came into existence in 2007. Every year various games & sports are conducted by Tripura University Sports Board. Annual Sports Day is organized in which various outdoor sports like football, volleyball, Kabaddi and cricket etc and Indoor game competitions such as Table Tennis, Carom and chess etc are held. Every year the sports board organizes Inter College Tournaments in various categories as football, cricket, volleyball, Judo, Table Tennis and athletics among the different affiliated colleges under Tripura University and participates in East Zone/ All India Inter University competitions with university contingent.

#### Placement Cell:

The Tripura University Placement Cell was established on 27.10.2005. In intercepting and mobilizing employment opportunities for students, the Cell plays a vital role and is gradually becoming a key cell of the University. The competition for employment is increasing every day and the task of placement is becoming a challenging one. The Placement Cell ensures and takes care to provide the best arrangements and hospitality for the visiting company officials and facilitates campus recruitment drives. It is relevant to mention here that the alumni of Tripura University occupy top positions in business, industry, R&D and academics in India and abroad and serve as the brand ambassadors of the alma mater.

The Placement Cell performs the following activities round the year:

- 1. Organizing various development activities that help in personality grooming of the students and provides them platforms to express them and enhance their soft skills.
- 2. Arranging winter/summer training for students.
- 3. Offering coaching classes for entry into services (for TPSC, Banks, Railway and other competitive examinations) for SC/ST/PH/OBC (Non-Creamy Layer) and minority students in collaboration with Equal Opportunity Cell, TU.
- 4. Inviting various organizations for campus recruitment.
- 5. Organizing different job oriented training programs by the reputed organizations.

#### Activities performed by the Placement Cell (July 2020 to June 2021)

- A. Campus recruitment Drives (Online tests/Telephonic/Skype/PI etc.) organized at Placement cell, TU:
  - 1. By South Indian Bank 8th July 2021
- B. Activities/Participation at out campus recruitment drives/interviews participated at/in:
  - 1. By Byju's on September 2021
  - 2. Pineyards Solutions Pvt. Ltd

- C. Workshop/training organized at campus: Tripura University Placement Cell in Association with Nestle organized a webinar **Néstle NésConnect 2020** on 'Overview of Nestle, It's Business Verticals, Its Vision & Mission, Its Expectations from New Talents & Their career Progression in Nestle' exclusively for the students of Microbiology, Pharmacy, Zoology and MBA on 26th August 2020, Wednesday, 4:30 PM-6:30 PM
- D. Industry visits: NIL
- E. Placement record of students (July 2020 to June 2021)

SL. No	Name of the students	Name of the organization	Name of the programme
1	Pronojit Dey	South Indian Bank	M. Com
2	Suchitra Rani Das	Byju's	MBA
3	Anupam Pal	Byju's	MBA
4	Souvik Purakayastha	Byju's	MBA
5	Saurav Deb	Pineyards Solutions Pvt. Ltd	MBA

#### Scholarships and Financial Assistance:

Various scholarships and financial assistances are provided to the students. It is based on the Provision under rules and regulation of the particular scheme. The different scholarship schemes are as Follows:

Post Matric Scholarships Scheme for Minorities, Merit Cum Means Scholarship For Professional and Technical Courses CS for Minorities, Post-matric Scholarship for Students with Disabilities, Scholarships for Top Class Education for students with disabilities, Top Class Education Scheme for SC Students. Post-Matric -- Financial Assistance for Education of the Wards of Beedi/ Cine/ IOMC/ LSDM Workers, CENTRAL SECTOR SCHEME OF SCHOLARSHIPS FOR COLLEGE AND UNIVERSITY STUDENTS, Prime Minister's Scholarship Scheme For Central Armed Police Forces And Assam Rifles, FINANCIAL SUPPORT TO THE STUDENTS OF NER FOR HIGHER PROFESSIONAL COURSES (NEC MERIT SCHOLARSHIP, ISHAN UDAY - Special Scholarship Scheme for North Eastern Region, PG INDIRA GANDHI SCHOLARSHIP FOR SINGLE GIRL CHILD, PG SCHOLARSHIP FOR UNIVERSITY RANK HOLDERS, PG SCHOLARSHIP SCHEME FOR SC ST STUDENTS FOR PERSUING PROFESSIONAL COURSES, PRAGATI SCHOLARSHIP SCHEME FOR GIRL STUDENTS (TECHNICAL DEGREE), SAKSHAM SCHOLARSHIP SCHEME FOR SPECIALLY ABLED STUDENT (TECHNICAL DEGREE), SWANATH SCHOLARSHIP SCHEME (TECHNICAL DEGREE), POST-MATRIC SCHOLARSHIP SCHEMES, POST MATRIC SCHOLARSHIP FOR OBC STUDENTS, POST-MATRIC SCHOLARSHIP FOR SC STUDENTS, Dr. B.R. AMBEDKAR POST MATRIC SCHOLARSHIP FOR ECONOMICALLY BACKWARD CLASSES (EBC).

#### **For PhD Research scholars**

Maulana Azad National Fellowship for Minority Students, NET-JRF scheme, National Fellowship for ST students, National Fellowship for SC students, National Fellowship for OBC students, Non-NET fellowship.



#### Canteen:

Tripura University has a central canteen that offers various food items at a moderate rate, ranging from heavy lunch to light snacks and beverages. Presently the canteen has been shifted to the 1<sup>st</sup> floor of the newly constructed parking building situated behind the Administrative Building. The canteen is fully air conditioned having a seating capacity of around 100 persons at a time. The University canteen is open from 8 am to 10 pm on all days except University holidays. There is also a canteen in Academic Building XI.

#### **NSS UNIT:**

NSS assists society by generating awareness and extending service. NSS Volunteers are stimulated to make changes through extension that result in more efficient production and marketing, conservation of natural resources, improved livelihood security, health and more satisfying family and community life. Extension work has manifold ramifications. It is also extremely location specific and usually susceptible to outside criticism. Through NSS - mobilized extension activities, people to people contact is initiated between students within the campus and the society outside.

The overall objective of NSS is to offer an extension of the academic activity of students and orient the student youth to community service. The educated youth who are expected to take the reins of administration in future are found to be unaware of the problems of the village / slum community and in certain cases are indifferent towards their needs and problems. Therefore, it is necessary to imbibe the social conscience of the students, and to provide them an opportunity to work with the people in the villages and slums.

#### **Reservation Cell:**

The Cell is responsible for ensuring effective implementation of the reservation policy in admission of the students and the recruitment of teaching and non-teaching staff at various levels, allotment of staff quarters, hostels etc. The main objective of providing reservation for Scheduled Castes, Scheduled Tribes, Other Backward Communities (Non-Creamy layer category) and Economically Weaker Section (EWS) in Government services and admission of students is to improve their social and educational status so that they can take their rightful place in the mainstream of the society.

# Annual Statement Showing the Representation of SCs, STs and OBCs as on 30.06.2021 is given below.

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Name of the Posts	No. of Sanctioned posts	saı	Oetails of Sanctioned strength as on 31.05.2021 (All positions sanctioned by UGC under Plan, Non-Plan and OBC grant if any)					Details of Existing strength 30.06.2021					Vacant positions as on 01.07.2021									
		GEN	sc	ST	ОВС	EWS	PWD	TOTAL	GEN	sc	ST	ОВС	EWS	PWD	TOTAL	GEN	sc	ST	ОВС	EWS	PWD	TOTAL
Professor	49	22	7	3	13	4	1	49	3	0	0	0	0	0	3	19	7	3	13	4	1	46
Assoc. Prof.	75	44	9	4	13	5	2	75	25	2	1	0	0	0	28	19	7	3	13	5	2	47
Asstt. Prof.	178	92	24	18	40	4	5	178	70	17	14	25	0	1	126	22	7	4	15	4	3	52
Total	302	158	40	26	65	13	8	302	99	19	16	26	0	2	160	59	21	10	39	13	6	142

#### Non-Faculty

Name of the Posts	No. of Sanctioned posts	Details of Sanctioned strength as on 31.05.2021 (All positions sanctioned by UGC under Plan, Non-Plan and OBC grant if any)					Details of Existing strength 30.06.2021					Vacant positions as on 01.07.2021										
		GEN	sc	ST	ОВС	EWS	PWD	TOTAL	GEN	sc	ST	ОВС	EWS	PWD	TOTAL	GEN	sc	ST	ОВС	EWS	PWD	TOTAL
Group A	31	25	1	2	3	0	1	31	15	0	2	2	0	1	19	10	1	0	1	0	0	12
Group B	46	42	1	1	2	0	1	46	26	1	1	2	0	0	30	16	0	0	0	0	1	16
Group C	171	106	25	33	2	3	4	171	84	22	29	2	0	3	137	22	3	7	0	2	1	34
Total	248	173	27	39	7	3	6	248	126	23	32	5	0	4	186	48	4	7	2	2	2	62

Note: The reservation for Physical with Disabilities (PWD) is to maintain horizontal

#### **Anti-Ragging Committee and Squad:**

As per the UGC Regulations on curbing the menace of Ragging in Higher Educational Institutions, 2009, Tripura University formed an Anti-Ragging Committee and an Anti-Ragging Squad under the Chairmanship of the Vice Chancellor. This Committee functions actively throughout the year to eliminate all possibilities of occurrence of ragging in any form.

Tripura University has a zero-tolerance policy towards ragging. Ragging in all its forms is totally banned in the entire Tripura University complex including the departments, and all its premises (academic, residential, sports, canteen, etc.). The University authority takes strict action against those found guilty of ragging and/or of abetting ragging.

Any complaint of ragging can be made to the nodal officer whose name, e-mail address, mobile number is given below:

Name : Dr. Rajat Deb, Assistant Professor, Dept. of Commerce

E-mail ID : rajatdeb@tripurauniv.in

Mobile Number : +91-9436126014; +91-9774426965



#### STATUTORY BODIES1\*

#### THE COURT

#### **Ex-officio Members**

**Chancellor, Tripura University (Vacant)** 

#### **Prof. Ganga Prasad Prasain**

Vice-Chancellor, Tripura University

**Pro- Vice-Chancellor, Tripura University (Vacant)** 

#### Dr. Sabyasachi Dasgupta

Dean, Students' Welfare, Tripura University

#### Dr. Deepak Sharma,

Registrar, Tripura University

Finance Officer, Tripura University (vacant)

#### **Representatives of Faculties and Departments**

(Two Deans, one from each Faculty, by rotation according to seniority)

#### **Prof. Shyamal Das**

Dean, Faculty of Arts & Commerce, Tripura University

#### Prof. Ranendu Kumar Nath

Dean, Faculty of Science, Tripura University

(Two Professors to be appointed in the manner prescribed by the Ordinances (Vacant)

(Two Heads of Teaching Departments, who are not Professors by rotation accordingly to seniority to be appointed by Vice-Chancellor)

#### Dr. Debarshi Mukherjee

Department of Management, Tripura University

#### Dr. Mohan Debbarma

Department of Philosophy, Tripura University

One Associate Professor/Reader, who is not Head of Department, and one Assistant Professor/Lecturer to be appointed in the manner prescribed by Ordinances (Vacant)

<sup>&</sup>lt;sup>1</sup> \*As on 30<sup>th</sup> September, 2021



#### **Representatives of Affiliated Colleges**

Two Principals of Affiliated Colleges, of whom one shall be woman, by rotation according to seniority, which shall be determined with reference to the date of establishment of the colleges concerned, to be nominated by the Vice-Chancellor

#### **Principal**

Womens' College, Agartala

#### **Principal**

Womens' Polytechnic Institute, Hapania, Agartala

Two teachers, of whom one shall be woman teacher, from affiliated Colleges, to be nominated by Vice-Chancellor

#### Dr. Abhijit Chanda

Institute of Advanced Studies in Education, Kunjaban, Agartala

#### Dr. Papri Das Sengupta

Ramthakur College, Agartala

#### Persons representing learned professions and special interests

Two members representing learned professions and special interests including representatives of industry, commerce, trade unions, banking and agriculture, to be nominated by the Visitor (Vacant)

#### **Representatives of the Registered Graduates**

Two representatives of the Registered Graduates of the University to be elected in the manner prescribed by Ordinances (Vacant)

#### **Representatives of Parliament**

Two representatives of Parliament, one to be nominated by the Speaker of the Lok Sabha from among the members thereof and one to be nominated by the Chairman of the Rajya Sabha from among the members thereof. However, in the event that a member of Parliament becomes a Minister or Speaker/Deputy Chairman, Rajya Sabha, her/his nomination/Election on the Statutory Body shall be deemed to have been terminated (Vacant)

#### **Representatives of Students of PG Departments**

Two students of whom one shall be female, to be elected (Vacant)

#### **Other Members**

Not more than one person to be nominated by the Visitor

#### **Prof. Khem Singh Daheriya**

Professor, Department of Hindi & Dean, Faculty of Humanities and Philosophy, IGNTU, Amarkantak



#### **Representatives of the Non-Teaching Staff**

Two members of non-teaching staff of whom one shall be woman, to be elected (Vacant)

#### **Representatives of the State Government**

Director, DHE, Govt. of Tripura, Member (Representatives of State Govt.)

#### **Remaining Members of the Executive Council**

Not more than one Member of the Executive Council, who is not otherwise member of the Court

#### N. Lokendra Singh

Department of History, Manipur University

#### **EXECUTIVE COUNCIL**

#### **Prof. Ganga Prasad Prasain**

- Ex-officio Chairman

Vice-Chancellor, Tripura University

#### **Pro-Vice-Chancellor, Tripura University**

- Ex-officio Member

(Vacant)

Two Deans, one from each Faculty, by rotation according to seniority:

#### **Prof. Shyamal Das**

Member

Dean, Faculty of Arts & Commerce, Tripura University

#### Prof. Ranendu Kumar Nath

Member

Dean, Faculty of Science, Tripura University

One Professor, other than a Dean by rotation according to seniority, to be nominated by the Vice-Chancellor:

#### Prof. Chandrika Basu Majumder

- Member

Department of Political Science, Tripura University

#### **Secretary of Higher Education**

Member

**Government of Tripura** 

Two members of the Court, to be nominated by the Visitor, none of whom shall be an employee of the University or a college or an institution affiliated to or recognized by the University

#### (i) Prof. Khemsingh Daheriya,

Department of Hindi & Dean, Faculty of Humanities and Philosophy, IGNTU, Lal Pur, Amarkantak

Three persons nominated by the Visitor

#### i) Prof. T.V. Kattimani,

Ex-Vice-Chancellor, IGNTU, Amarkantak, Madhya Pradesh

#### ii) Prof. N. Lokendra Singh,

Head, Department of History, School of Social Science, Manipur University

#### iii) Prof. (Smt.) Vinod Solanki (Retd.),

Ex-Head, Department of English, Deen Dayal Upadhyay Gorakhpur University, U.P

#### Dr. Deepak Sharma

- Ex-officio Secretary

Registrar, Tripura University

#### **ACADEMIC COUNCIL**

Prof.Ganga Prasad Prasain - Ex-officio Chairman Vice-Chancellor, Tripura University

Pro-Vice-Chancellor, Tripura University (Vacant) - Ex-officio Member

Two Deans, one from each Faculty, by rotation according to seniority

Prof. Shyamal Das - Member

Dean, Faculty of Arts & Commerce, Tripura University

**Prof. Ranendu Kumar Nath** - Member

Dean, Faculty of Science, Tripura University

Two Heads of Departments, one from each Faculty, by rotation according to seniority, to be nominated by the Vice-Chancellor

**1. Dr. Mohan Debbarma** - Member Head, Department of Philosophy, Tripura University

**2. Dr. Sabyasachi Dasgupta** - Member Head, Department of Forestry & Biodiversity, Tripura University

Two Professors, other than the Heads of Departments, to be nominated by the Vice-Chancellor

Prof. Prallad Debnath

 Department of Commerce, Tripura University
 Member

2. Vacant - Member

Two Principals of Colleges admitted to the privileges of the University, to be nominated by the Vice-Chancellor

1. Principal - MemberWomen's College, Agartala

2. Principal - Member

Rabindranath Thakur Mahavidyalaya Bishalgarh

Two teachers of the University, other than those under (i) to (v) above, by rotation according to seniority of which one shall be Associate Professor/Reader and one Assistant Professor/Lecturer

1. Dr Monishankar Misra

Assistant Professor, Department of History, Tripura University - Member

2. Vacant - Member

#### Annual Report 2020-2021

Four persons nominated by the Visitor

#### i) Prof. Awadesh Kumar Mishra

Head, Dept. of Linguistics, English and Foreign Language University, Shillong Campus, Shillong

#### ii) Prof. M. Indira Devi

Department of Chemistry, Nagaland University

#### iii) Prof. Mahesh Chandra Govil

Director, NIT Sikkim

#### iv) Prof. Sunita Singh Sengupta

Faculty of Management Studies, University of Delhi

## Two Teachers of the Affiliated Colleges

(Vacant)

- Member

# One Research Scholar and Two Post-Graduate Students of the University (Vacant)

Member

#### Dr. Deepak Sharma

- Ex-officio Secretary

Registrar, Tripura University

- Secretary (Ex-officio)



## **COLLEGE DEVELOPMENT COUNCIL**

۵.	_		(F (C: )
1)	Pro	f. Ganga Prasad Prasain, Vice-Chancellor, T.U.	- Chairperson (Ex-officio)
2)	The	Pro-Vice-Chancellor (Vacant)	- Member (Ex-officio)
3)		teachers of Professor/ Associate Professor grade, one from the from Arts/ Commerce Departments, nominated by the Visc.	•
	(i)	<b>Prof. Nibedita Das (Pan)</b> Department of Geography and Disaster Management, T.U.	- Member
	(ii)	<b>Prof. Indraneel Bhowmik</b> , Department of Economics, T.U.	- Member
4)	and	ee principals of affiliated colleges, one from general colleges, on the rest one from vocational colleges, nominated by the Vi- iority in the service in the colleges on rotation basis:	
	(i)	Smt. Manidipa Debbarma, Principal, Women's College, Agartala	- Member
	(ii)	<b>Dr. Sekhar Datta</b> , Principal, TIT, Narsingarh	- Member
	(iii)	<b>Dr. Bhushan Ch. Das</b> , Principal (i/c), DDM College, Khowai	- Member
5)	Dep	ee teachers of affiliated colleges, one from Science depa partments and the rest one from Commerce/ Technical/Vocationa he Vice-Chancellor in order of seniority on rotation basis:	
	(i)	<b>Dr. Papri Das Sengupta</b> , Associate Professor in Science	- Member
	(ii)	Smt. Sarbari Nath, Associate Professor in Arts	- Member
	(iii)	<b>Dr. Sanjoy Das</b> , Associate Professor in Commerce	- Member
6)	Dire	ector of the Higher Education, Govt. of Tripura	- Member
7)	Cor	troller of Examinations, T.U.	- Member
8)	Fina	nnce Officer, T.U.	- Member
9)	Dea	n of Student's Welfare, T.U.	- Member
10	) Dire	ector, CDC, T.U.	- Member

11) **Dr. Deepak Sharma**, Registrar, T.U.

Finance Officer, Tripura University (Vacant)

#### **FINANCE COMMITTEE**

Prof. Ganga Prasad Prasain Vice-Chancellor, Tripura University	- Ex-offici	o Chairman
Pro-Vice-Chancellor, Tripura University (Vacant)	-	Member
One person to be nominated by the court		
Prof. Chandrika Basu Majumder Department of Political Science, Tripura University	-	Member
Three persons to be nominated by the Executive Council, out of whom a member of the Executive Council	t least one	e shall be a
Prof. Khemsingh Daheriya IGNTU, Amarkantak	-	Member
2. Secretary, Department of Finance, Govt. of Tripura	-	Member
3. <b>Dr. Deepak Sharma</b> Registrar, TU	-	Member
Three persons to be nominated by the Visitor		
1. Joint Secretary & Finance Advisor, MHRD	-	Member
2. Joint Secretary (CU&L), MHRD	-	Member
3. Joint Secretary (CU), UGC	-	Member

- Ex-officio Secretary







#### CENTRE FOR STUDY OF SOCIAL EXCLUSION AND INCLUSIVE POLICY (CSSEIP)

Head of the Department : Dr. RAJESH CHATTERJEE

Year of Establishment : 2008

Programmes on offer : Post Graduate Diploma in Tribal & Ethnic Study (PGDTES) & Ph.D.

(in Social Exclusion and Inclusive Policy) Semester System

under the CBCS pattern.

Intake capacity : PG Diploma-20 (PGDTES), Ph.D: 08

#### Major achievements/ Vision of the Department:

The CSSEIP, Tripura University has been fast emerging as an excellent hub for extension activities as well as research and development. The CSSEIP, TU has been actively engaged in addressing the issues pertaining to Social Exclusion and Inclusive Policy. The Centre has been attached to the academic department of the University like Dept. of Rural Studies since November, 2015.

The Centre has proved itself an academic vehicle of the Tripura University for aiding and promoting excellence in research and development activities. It has been conducting courses on Tribal (PGDTES), PhD, seminars and workshops on social and economic issues concerning disadvantaged and marginalized sections of the society.

While the Centre has been striving for conceptualization of issues on discrimination, deprivation, exploitation and exclusion, it has been also exploring the ways and means for effecting social justice, equity, fair play and inclusion in Indian society in general and North-Eastern societies in particular. With optimism and confidence, we look forward for sustained growth and development of the Centre for Study of Social Exclusion and Inclusive Policy.

The empirical research result and action research of this Centre will be helpful to create such an ambience in the society for social inclusion irrespective of caste, clan and religion. The Centre is a pioneer in introducing PGDTES course in the NE region. The activities of the Centre are well appreciated by the Institutions of Government of India namely; UGC-NAAC, MHRD and organizations like NABARD, ICSSR, ONGC, Ministry of Tribal Affairs (GoI) have been involved as financial partners of this endeavor. Initiative in the field of collaborative research work on tribal health has been started with Calcutta University and Moscow State University, Russia.

#### 1. Faculty Members:

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Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Resear job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Rajesh Chatterjee	M.A., PhD (Rural Development)	Asst. Professor- cum- Assistant Director	Full time	Rural Infrastructure & Extension Education & Social Inclusion	16 years	01	04	26	06	01	01

# 4

		Asst.		Population Study,							
Dr. Nanigopal Debnath	M.Sc., PhD (Economics)	Professor- cum- Assistant Director	Full time	Tribal Development and Social Exclusion & Inclusive Policy	16 years	-	04	22	05	01	-
		2	ĺ	mendative roney						l	

<sup>\*</sup>Must be mentioned

#### 2. Visiting Teacher/ Visiting Fellow:

	Nome	Topics of courses/lectures taught in Tripura	Institution affiliated with now/
	Name	University	previously (if retired)
		Human Rights: Instruments of	
1.	SUDAKHINA MITRA	Social Inclusion (Online & Offline): TRES-812C (U- II &	PhD research scholar
		IV), Dissertation: TRES 813C	
2.	Md Abdur Rahman	Research Methodology : TRES 713C (U-IV),	PhD research scholar
	Choudhury	Entrepreneurship Development: TRES 815E (U-II & U-	
		III), Dissertation: TRES 813C	
3.	Abhranil	Research Methodology : TRES 713C (U-III), Tribal	PhD research scholar
	Bhattacharjee	Development in India TRES 712C (U-III), Dissertation:	
		TRES 813C	

- 3. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:
- 3.1 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020- 21)	ISSN/ ISBN / DOI	Page No.
Nani gopal Debnath		'Social Exclusion and Inclusive Policy: In the Light of Swami Vivekananda's Thought'	National	Saraswat	Volume I, Issue I	Dec, 2020	2431 - 1118	Page No: 131
	Nanigopal Debnath	Facebook Addiction Propensities among the Youths: A Study of college Students in West Tripura District'	National	Communicato r (UGC referred Journal)	Vol. LVI (1), January- March, 2021,		0588 - 8093	Page No: 22- 32,
Nani gopal Debnath		An Inquiry into the Causes of Social Exclusion: A Study of Tripura'	National	MuktShabd (UGC referred Journal)	Volume X, Issue V,	MAY/2 021,	2347 - 3150	Page No: 1594 - 1602

4. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/ Research	Number of Conference/ Seminar/ Workshop attended				
Name	Scholar	International	National	Institution Level		
Rajesh Chatterjee	Teacher	-	07	-		
Abhranil Bhattachajee	Abhranil Bhattachajee Research Scholar		-	01		
Nanigopal Debnath Teacher		-	07	-		

5. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
	RUDSETI-Agartala	05/12/2020	RUDSETI	Leadership Human Relation & Labor Management
	RUDSETI-Agartala	13.01.2021	RUDSETI	Marketing Management
Rajesh	RUDSETI-Agartala	20.03.2021	RUDSETI	Leadership Human Relation & Human Management
Chatterjee				Time Management
	SIPARD-Agartala	22.02.2021	SIPARD, Govt. of Tripura	Strategies for sustainable rural livelihood to reboot the Rural Economy during Post COVID

6. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of Scholars	Par time/ Full time	Research topic	Name of Guide	Registered/ Theses submitted/ Awarded
Sri. Soumen Mukharjee	Par time	Assessment of Patient Satisfaction in Tertiary Care Hospitals and Development of a Tertiary Healthcare Infrastructure Map of Tripura	Dr. Rajesh Chatterjee (Co-Guide)	Awarded
Sri. Lipika Debbarman	Par time	Changes of Political Culture in Legislative Assembly of Tripura since 1972 to 1977 and 2013 to 2018: A Comparative Study	Dr. Rajesh Chatterjee	Registered
Sri. Sharmisha Rakshit	Par time	Older Persons and their rights: A study in Tripura	Dr. Nanigopal Debnath	Registered
SUDAKHINA MITRA	Par time	MGNREGA: A Drive towards rural livelihood development	Dr. Rajesh Chatterjee (Co-Guide)	Registered
Md Abdur Rahman Choudhury	Par time		Dr. Nanigopal Debnath	Pursuing Course work
Abhranil Bhattacharjee	Full Time		Dr. Rajesh Chatterjee	Pursuing Course work

#### 7. Outreach Footprint of the Department:

15 days visit of rural tribal institutions / field is the integral part of PGDTES course curriculum which helps the students to know more about the subject. For this purpose, 8 adjacent villages have been adopted where extension activities is going on with the help of Panchayat. Each and every subject (TRES-714E, TRES-715E, TRES-811C, TRES-812C, TRES-814E & TRES-815E) has

been designed in such a manner where field work is mandatory (practical) and for this purpose students visit the field for interaction with the villagers and submit a report for presentation in the class room which is more lively practice of the students as interaction session and the students collect the report from the concerned teacher later on. Such effective approach enhances employability competency of the students in the job market. One of the teachers of this Centre was a student of Rural Extension Centre, Visva-Bharati who is competent enough to undertake such assignment based on Sriniketan Experiment of Rabindranath Thakur.

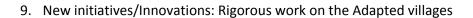
#### 7.1 Participation in E-Content creation programmes such as e-PG Pathshala, NME-ICT, MOOCs:

SI.	Faculty	Title of E-Content	No. of Hours	Available or
No.	Names			Not
Dr. Nanigopal	Development of Teacher's e-kit and MOOCs	12 <sup>th</sup> September to 20 <sup>th</sup>	NA	
1. Dr. Nanigopai		in Four Quadrant format of e-Content	September, 2020 i.e. 9 days	
	Debnath	in rour Quadrant format of e-content	/45hrs	
	Dr. Rajesh	Development of Teacher's e-kit and MOOCs	12 <sup>th</sup> September to 20 <sup>th</sup>	Available
2.	Chatterjee	in Four Quadrant format of e-Content	September, 2020 i.e. 9 days	
	Chatterjee	in Four Quadrant format or e-content	/45hrs	

#### 7.2 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Dr. Nanigopal Debnath	Faculty Development Program on 'Towards Quality Higher Education through NEP-2020'	Guru Angad Dev Teaching Learning Centre, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD	07 days	From 27 <sup>th</sup> October to 02 <sup>nd</sup> November, 2020.
Dr. Rajesh Chatterjee	Mentoring and Facilitation Skills for Institutional Mentors	Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India Hyderabad, Sponsored by: Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching	10 days	May 22 - 31, 2020
	Digital Tools for Writing, Authoring and Reviewing Manuscripts	Ministry of Electronics and Information Technology (MeitY) Electronics & ICT Academies MNIT Jaipur, NIT Patna & IIT Guwahati	12 days	21st September and 2nd October 2020

8. Major thrust area of research: Rural infrastructure, Rural Entrepreneurship, Tribal Development & Social Inclusion



#### 10. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Dr. Debarshi Mukherjee	Dr. Rajesh Chatterjee	Indian Council of Social Science Research (ICSSR), New Delhi under IMPRESS scheme	Impact of Mahatma Gandhi NREGA on Development of Rural Livelihood in Tripura	10,00,000	8,00,000	2 years
Dr. Nanigopal Debnath	Dr. Rajesh Chatterjee	Ministry of Tribal Affairs, Govt. of india	Changes in livelihood pattern of the Tribes of Tripura: A Study	22,97,400/-	15.00 lakhs (app.)	24 Months.

#### 11. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

Name of	Name of other Universities / Institutes / Industry	Collaboration	Year	
Teacher	Name of other oniversities / institutes / industry	on Project	(2020-21)	
Rajesh	Initiative in the field of collaborative research work has been started	Tribal Health	Yes	
Chatterjee	with Calcutta University and Moscow State University, Russia.	TTDat Health	162	

#### SOME PICTURES ON FIELD SURVEY







# 4

#### **CENTRE FOR TRIBAL LANGUAGES**

Centre Coordinator : Prof. Sukhendu Debbarma Assistant Coordinator : Mrs. Khumtiya Debbarma

Year of Establishment : 1999

Programmes on offer : PG Diploma in Kokborok, Certificate Course in Kokborok

Intake capacity : 100

#### Major achievements/ Vision of the Department:

The Centre for Tribal Languages was established in the year 1999 under Tripura University. The Centre offers 1(one) year PG Diploma Course in Kokborok Language and Literature. PG Diploma Course is offered in every academic session between July to June. PG Diploma Syllabus consists of 5(five) Papers each of 100 marks.

The objective of the PG Diploma Course is to impart knowledge of Kokborok Language, literature and culture to the students of tribal and non-tribal communities. Furthermore, the course has a practical paper of field work which is framed in order to study the socio-cultural aspects and comparative study on eight dialects of Kokborok. The centre publishes a Journal entitled "KHERENGBAR" since the year 2013. The pass out students of PG Diploma course are presently admitted in M.A. (Kokborok), they are teaching as the Guest Teacher in Tripura University, Govt. Degree Colleges of Tripura and in Schools of the state.

#### 1. Faculty Members:

			a a		of search/ e	Ph Guid		Mas The Guida	sis		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest, Contract*	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Mrs. Khumtiya Debbarma	MA-Hindi, SLET	Assistant Professor	Full time	Premchand/ Kokborok Literature	14 years 9 months	-	-	-	-	-	-
Dr. Samir Debbarma	MA- Linguistics, UGC-NET, PhD	Assistant Professor	Full time	Tibeto-Burman Languages, Language Documentation, Kokborok Linguistics	5 years 10 months	-	-	-	-	-	-
Smt. Victo Debbarma	MA- Education, SLET, PG Diploma in Kokborok	Guest Teacher	Guest	Novel, Poetry	4 years 6 months	ı	-	-	ı	ı	ı
Dr. Biman Debbarma	MA- English, Linguistics, PG Diploma in Kokborok, PhD in Linguistics	Linguistic Officer*	Deputed to the Department to assist teaching	Phonology, Morphology, Syntax, Semantics, Poetry, Literary theory & criticism	5 years 10 months	-	-	-	-	-	-

<sup>\*</sup> Deputed to Department of Kokborok to assist teaching (Linguistic Officer)



Head of the Department : Dr. Paramita Saha, Director

Year of Establishment : 2011

Programmes on offer : PG Diploma in Women's Studies

Intake capacity : 30

#### Major achievements/ Vision of the Department:

The Women's Studies Centre, Tripura University was established in 2011 under the UGC scheme of Development of Women's Studies in Indian Universities and Colleges. The Women's Studies Centre, Tripura University is extensively working on Independent Research, Legal Advocacy, Documentation, Teaching, Training and Extension programme. Throughout its activities the Centre has been trying to generate awareness about the role of women in society and civilization as a whole, by conducting various Seminars, Workshops and Interaction Programmes. The Centre assesses Women's contribution to the social processes and find out Women's own perception of their lives, the broader social reality and their struggles and aspirations. Within its Research Activities, WSC attempts to assess the roots and structures of inequality in the society and facilitate research in areas relating to women and gender studies with special emphasis on issues related to Women in Tripura. Engaged in carrying out these activities, the Centre is now running the PG Diploma Course in Women's Studies. We hope, the Centre will contribute to the visibility of women's issues and open the avenues for a dialogue in multi-disciplinary collaboration in research and teaching and empowered to serve as a nodal Centre for teaching, research and documentation in the field of Women's Studies in the State.

**WOMEN'S STUDIES CENTRE** 

#### 1. Faculty Members :

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Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Paramita Saha	Ph.D	Director	Full time	Social Sector and Gender Issues	30 Years	2	3	4	3	-	-
Ashim Shil	Ph.D	Research Associate	Full time (Contract)	Women and Gender Issues	8 Years	Nil	Nil	Nil	Nil	-	1

<sup>\*</sup>Must be mentioned

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2. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conference/ Seminar/ Workshop attended					
Traine	Research Scholar	International	National	Institution Level			
Dr. Paramita Saha	Director	1	2	0			
Dr. Ashim Shil	Research Associate	1	2	0			

3. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/ Universities	Title of Invited talk
	Hosted by Centre for Women's Studies, Dibrugarh University (Online)	28 <sup>th</sup> July 2020	Indian Association for Women's Studies (IAWS)	Future Prospects of Women's Studies Centers in NEI
Dr. Paramita Saha	Online	22 <sup>nd</sup> – 28 <sup>th</sup> August,2020	Centre for Ethnic Studies and Research, Guwahati and ICSSR, NERC	Health Care Challenges in the Context of Covid- 19
	Organized by Tripura University (Online)	22 <sup>nd</sup> September,2020	Faculty Development Programme under AICTE Training and Learning (ATAL) Academy	Basics of Statistics, Descriptive Statistics, Data Visualization and Presentation: Some Probability Distributions
	Rabindra Bhawan, Hall No.2, Agartala	15 <sup>th</sup> January,2021	Waft Pride	Issues of LGBTQ in Tripura
	Tripura Bamboo Mat Cluster, Agartala, Tripura	25 <sup>th</sup> January, 2021	Indian Institute of Entrepreneurship, Guwahati	Demand Analysis and Estimation
Dr. Ashim Shil	Hosted by Centre for Women's Studies, Dibrugarh University (Online)	20 <sup>th</sup> Feb.2021	Indian Association for Women's Studies (IAWS)	Student Perspectives on WSCs and Crisis
	MBB University, Agartala, Tripura	5-6 <sup>th</sup> March, 2021	ICSSR Sponsored two day National Seminar	Right to property inheritance of the women of Tripuri community of Tripura: A review from gender perspective (paper presented)

## 3.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/ Workshops/ Symposia Lecture/ Talk	International/ National	No. of Participants
1	19 <sup>th</sup> October, 2020	3 hrs	Webinar on Stress Management in COVID-19 Context	Management in Webinar		65
2	28 <sup>th</sup> September, 2020	6 hrs	National Webinar on Gender Issues in COVID-19 Context	Webinar	National	120
3	25 -27 <sup>th</sup> August, 2020	Three days Regional E-Conference on		E-Conference	National	300

- 4. Major thrust area of research: Women and Gender related issues
- 5. New initiatives/Innovations:
  - I. Conducted the Gender Audit for Tripura University vide notification on 19<sup>th</sup> march 2021.
  - II. Developing E- learning materials for online certificate course
  - III. Documentation of Women and Gender related research work in Tripura University
  - IV. Conducted a survey on ASHA health workers (report is under preparation)
- 6. Major Instruments available in the Department: One LED Projector, 12 Desktop, One Printer



Head of the Department : Dr. Monisankar Misra (i/c)

Year of Establishment : 2019
Programmes on offer : MA
Intake capacity : 20

### Major achievements/ Vision of the Department:

The Department of Archaeology and Ancient Indian Culture is one of the newest departments of the University. It is opened with the vision that it will contribute in due course to unearth hitherto unknown archaeological resources in the state of Tripura and North East India and make substantial contribution in reconstructing the ancient history of the region which is still under explored.

#### 1. Faculty Members:

			Guest/	a	rs of Research/ ence		h.D dance	The	ster esis lance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Gue Contract	Research area	No. of years of Teaching/ Rese job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Miss Jyotshna Rani Khundrakpam	MA	Guest Lecturer	Guest	Pre and Proto history	1 year	-	-	-	-	-	-

<sup>\*</sup>Must be mentioned



#### **DEPARTMENT OF BENGALI**

Head of the Department : Dr. Paramasree Dasgupta

Year of Establishment : 1977

Programmes on offer : M.A., Ph.D. (including Course Work), IMD Intake capacity : M.A- 90, IMD- 15, Ph.D.- As per vacancy

#### Major achievements/ Vision of the Department:

Research in different areas such as Bengali Fiction, Drama, Poetry, Linguistics, Manuscript studies, Literary Theory, Folklore, Women's studies, Tribal studies, Comparative Indian Literature, Special importance to North-eastern Bengali Literature. Pass out students' placement in various fields.

#### **Vision of the Department:**

• Folklore Studies Centre

- Tagore Research Centre
- Collaboration with different Universities, Industries & organizations
- Departmental Research journal
- Departmental Library
- Research in unexplored areas of Literature, Language & Culture
- Developing E-learning method

#### 1. Faculty Members :

			st/	_	of Search/		) lance	Mas Thes Guid			
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Nirmal Das	M.A,B.ED	Assistant	Full	Folklore,	PG-12	01	04	-	-	-	-
	M. Phil	Professor	time	Medieval	years.						
	Ph.D,			Literature							
Dr. Rintu Das	M.A,B.ED	Assistant	Full	Modern	PG- 11	02	01	-	-	-	-
	M. Phil,	Professor	time	Bengali	years.						
	Ph.D,			literature							
Dr.	M.A,	Assistant	Full	Medieval	PG- 11	02	01	-	-	-	-
Paramasree	Ph.D,	Professor	time	Bengali	years.						
Dasgupta				literature,							
				Women's							
				Studies							
Dr. Sayak	M.A,	Assistant	Full	Modern	PG- 10		03	-	-	-	-
Mukherjee	Ph.D,	Professor	time	Bengali	years.						
				literature							

8	ij

Dr. Padma	M.A,	Assistant	Full	Novel ,	PG- 9	04	-	-	-	-
Kumari	Ph.D,	Professor	time	Tribal	years.					
Chakma				Studies						
Dr. Malay Deb	M.A,	Assistant	Full	Medieval	UG-3	04	-	-	-	-
	Ph.D,	Professor	time	Bengali	years.					
				literature &	PG-4					
				Comparative	years.					
				Indian						
				Literature						

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

### 2.1 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ Inter- national	Publishers	Year (2020- 21)	ISBN	Page No.
Dr. Nirmal Das		Daini Biswas : Prekhhit Samajtotta O Lokosangskriti	Prbhat Chandra Sarkar	Bahaman Lokosanskriti	National	Bangio Sahitya Samsad	2021	978- 93- 826 63- 97-3	76- 91
Dr. Rintu Das		Bijnan Mmanaska Vidyasagar	Soumitra Sekhar	Vidyasagar 2020	Inter- national	Grantha kuthir	Boimela, 2021	978- 984- 21- 0345	298- 304
Dr. Padma Kumari Chakma		Kalipada Chakrabortir Nirbachita Galpa : Vumir Upar Adhikar Pratishthar Larai	Dr. Archana Dandapath, Piu Nandi (Co- Editor)	Bhumikatha o bangle chotogalpa	National	Bhasa O Sanskriti Gabasena Parisad,	May, 2021	ISBN : 978- 93- 5445 -003- 7	73- 84
Dr. Malay Deb		Santos Royer Kobitay Partitioner Dahan Kotha	Nirupam Acharya	Desbhager Kothakotha	National	Bhasa Samsad	Dec. 2020	ISBN: 978- 81-94 7768- 5-7	77- 85
Dr. Malay Deb		Tripurar Bangla Chotogalpe Bhumi O Bhumiputra: Eakti Sankshipta Paryalochona	Dr.Archana Dandapath and Piu Nandi	Bhumikatha O Bangla Chotogalpa	National	Bhasa O Sanskriti Gabasena Parisad,	May, 2021	ISBN : 978- 93- 5445- 003-7	185- 95



## 2.2 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc. :

Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020- 21)	ISSN/ ISBN/ DOI	Page No.
Dr. Nirmal		Janmashatabarshe	National	Baalark	VI, Issue-II	2020	2394-	33-
Das		Asit Kumar					6113	40
		Bandhayapadhyay						
Dr. Nirmal		Janmashatabarshe	National	Baalark	VII, Issue-I	2021	2394-	16-
Das		Akshay Kumar					6113	24
		Datta						
Dr. Nirmal		Shatabarshe	National	Saraswata	Volume - I	Dec		142-
Das		Purbabangagitika :			issue-I	2020		159
		Eakti Bipratip						
_		Upastapan		_				
Dr.		Sahajiya Vaisnab	National	Saraswata	Volume - I	Dec		61-
Paramasree		Dharma O Nari			issue-l	2020		77
Dasgupta		Jiban: Oltihasik						
D. C. I		Parjabekshen	No. 12 co. 1	<b>T</b> . I.		2020	0076	240
Dr. Sayak		Minakshi Sen	National	Tabu	Volume -	2020	0976-	310-
Mukherjee		Bandhyapadhyayer		Ekalabya	40 issue-		9463	19
		Chotogolpe			July-			
		Tripura Prantabasi Manuser			September			
		Jibonalekhya						
Dr. Sayak		Unish Shatak O	National	Ebang		March,		208-
Mukherjee		Vidyasagar	Ivacional	Mahuya		2021		16
Dr. Padma		'Chandabi	National	Ebong	22 <sup>nd</sup> year,	Oct		358-
Kumari		Baramasi Gaane	National	Mahuya	125 year,	2020,		364
Chakma		Ramayaner Pravab		ivianaya	sankhya	2020,		304
Dr. Padma	Dr.	Radhaman-	National	Saraswat	Volume –I	Dece		160-
Kumari	Malay	Dhanpudi pala :	- National	Saraswat	issue-I	2020		177
Chakma	Deb	Chakma Nrigoshthi			13346 1	2020		1,,
		o Sanskritir Alkehy						
Dr. Malay	Dr.	Tripura Bangla	National	Nineth	XX, Issue	Nov.	2229-	108-
Deb	Padma	Kotha Sahityer		column	XVI	20	6778	140
	Kumari	Sankshipta						
	Chakma	Ruparekha						
Dr. Malay		Radhaman-	National	Saraswat	Volume –I			
Deb		Dhanpudi pala :			issue-I			
		Chakma Nrigoshthi						
		o Sanskritir Alkehy						
Dr. Malay		Gajinama Kavyer	National	Ebong	22 <sup>nd</sup> year,	Oct		365-
Deb		Rachanakal O		Mahuya	125	2020		371
		Pathantar Samasya			sankhya			
		: Eakti Abolokan						

3. Conference/Seminar/Workshops/Summer-Winter schools attended by Teacher/Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conference/ Seminar/ Workshop attended				
Name	Research Scholar	International	National	Institution Level		
Dr. Nirmal Das	Teacher	6	2	1		
Dr. Rintu Das	Teacher	-	2	1		
Dr.Paramasree Dasgupta	Teacher	-	3	1		
Dr.Sayak Mukherjee	Teacher	4	1	-		
Dr. Padma Kumari Chakma	Teacher	-	1	1		
Dr. Malay Deb	Teacher	5	2	-		

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Dr. Nirmal Das	Online	10.07.20	Sanskar Bharati, Tripura	Bharate Gurubhavnar Oitihya
Dr. Nirmal Das	Online	02.07.20	Rabindranath Tagore	Tripuray Lokosanskriti Parikrama
			College, Bishalgar	
Dr. Nirmal Das	Online	27.07.20	Uttarsuri, Karimganj	Lokosanskriti : Utsya theke Mohanay
Dr. Nirmal Das	Online	14.08.20	Nabark	Myth and Reality
Dr. Nirmal Das	Online	25.10.20	Sanskar Bharati, Tripura	Durga Pujar Satkahan
Dr. Nirmal Das	Badharghat	22.01.21	Ramthakur College, Tripura	Adwaita Malla Barman : Titas O
				Lokosanskriti
Dr. Nirmal Das	Online	31.01.21	Cotton University	Lokosanskriti: Sekaler Chetanay O
				Amader Vabnay
Dr. Nirmal Das	Online	03.04.21	Akademi of Folklore, W.B	Purbabanga Gitika: Eakti Bipratip
				Upasthapana
Dr. Rintu Das	Online	25.05.2021	Maynaguri College, W.B	Rabindranath O Dwijendralaler
				Kavyobhabnar Boiparitya
Dr. Paramasree	Online	17.07.2020	Naba Barrockpur Prafulla	Literature and Pandemic
Dasgupta			Chandra Mahavidyalaya	
Dr. Sayak	Online	18.05.2021	Kumilla University,	Chena Nazrul Ochena Nazrul
Mukherjee			Bangladesh	

- 5. Outreach Footprint of the Department:
- 5.1 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members: Refresher

Name	Course attended	Location	Duration	Date
INAIIIE	Course attenueu	Location	Duration	Date
Dr. Nirmal Das	Teachers on Using ICT for Online	Tripura University	14 days	01.12.2020 to
Di. Milliai Das	Teaching Learning Process	Impura Oniversity	14 days	14.12.2020
Dr. Rintu Das	Making Teaching Effective	Tripura University	14 days	15.03.2021 to
DI. KIIILU Das	iviaking reaching effective	Tripura Offiversity	14 days	28.03.2021
Dr. Padma	Teachers on Using ICT for Online	Tripura University	14 days	01.12.2020 to
Kumari Chakma	Teaching Learning Process	Tripura University	14 days	14.12.2020
Dr. Malay Deb	Teachers on Using ICT for Online	Tripura University	14 days	01.12.2020 to
DI. Ivialay Deb	Teaching Learning Process	Tripura Oniversity	14 uays	14.12.2020

- 6. Major thrust area of research: Bengali Fiction, Drama, Poetry, Linguistics, Manuscript studies, literary theory, Folklore, Women's studies, Tribal studies, Comparative Indian Literature, Special importance to North-eastern Bengali Literature.
  - 6.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/ Workshops/ Symposia Lecture/ Talk	International/ National	No. of Participants
1	17 <sup>th</sup> & 18 <sup>th</sup> December, 2020	Two days	'Iswarchandra Vidyasagar : North East Indian Response'	Webinar	National	-
2	29 <sup>th</sup> & 30 <sup>th</sup> September, 2020	Two days	'Lekhak O Pathaker Drishtite Sankot O Bipannata'	Webinar	National	-

### 7. Details of Student's Placement known to the Department:

Name	Sex (M /F)	Category (GEN/ ST/SC/ OBC/EWS /MIN)	PH (Yes /No)	Name of the Organization/ Institution	Designation	Examination Body	Name of the Examination
Mistu Saha	F	UR	No	Katlamara High School, West Tripura	Graduate Teacher	TET Board	TET-II
Prasanjit Das	М	SC	No	District Educational Office	Graduate Teacher	TET Board	TET-II
Sukanta Majumder	М	SC	No	Dhansardar Para S.B School, Gomati	Graduate Teacher	TET Board	TET-II
Samir Das	М	SC	No	Satnala H. S School, North Tripura	Graduate Teacher	TET Board	TET-II
Paltan Das	М	SC	No	Uttar Madhav Nagar S.B School, South Tripura	Graduate Teacher	TET Board	TET-II
Tapas Das	М	SC	No	Chlakaham H.S. School, Gomati	Graduate Teacher	TET Board	STGT
Ramkrishna Das	М	SC	No	Bishargarh Manaranjan Smriti Bidyalayay, West Tripura	Graduate Teacher	TET Board	TET-II
Jutan Das	М	SC	No	Department of Education, Govt. of Tripura	Graduate Teacher	TET Board	TET-II
Champa Das	F	SC	No	Lulanga S.B School, Gomati	Graduate Teacher	TET Board	TET-II
Rutan Nama	М	SC		Nalicherra S.B School, Unakoti	Graduate Teacher	TET Board	TET-II
Dilip Das	М	SC	No	Gandacherra Hatipara High School,	Graduate Teacher	TET Board	STGT

### **DEPARTMENT OF BUSINESS MANAGEMENT**

Head of the Department : Dr. Debarshi Mukherjee

Year of Establishment : 2005

Programmes on offer : MBA (2 year Fulltime Programme approved by AICTE, New Delhi),

BBA (3 year fulltime Programme), Ph.D.

Intake capacity : 60 Nos. (MBA, BBA)

#### Major achievements/ Vision of the Department:

Over the years the Business Management department has been able to create an enabling environment for learning and development where future managers are fostered organically. The pedagogical practice and dynamic course curriculum at the department have evolved by the confluence of different modern approaches backed by state-of-the-art technology infrastructure. At the Department of Business Management, students not only learn through classroom teaching but also case-based learning, industry-academia interactions through special corporate lectures by senior-level management executives, summer internship projects, inbound and outbound industrial tours in various corporate organizations and industries thus emerging as a hardcore business and corporate professionals. The department is committed to training each student on the factors of corporate readiness through the fine blending of theory and practice by experienced faculty members and industry mentors thus enriching life each day. Faculty members in the department are engaged in 'cutting edge research'. They have been organizing seminars, management, and faculty development programmes as well as executing government-funded and consultancy projects. The holistic involvement of faculties across so many relevant areas is beneficial for imbibing the management knowledge and professional growth of our students. Since the last decade, faculties and students of the Department of Business Management of Tripura University are actively involved in conducting and so far witnessed various events, namely, 'Prayatna-Management conclave', Prarambh, Purvottaran, and now Rubaroo wherein students test their business acumen by managing teams, handling conflicts, and ambiguities. 'Rubaroo' provides a platform for reconnecting alumni with their Alma Mater. Department of Business Management takes pride in organizing these events consecutively for the last 5 years since 2016. Various cultural and management events rekindle the bond between alumni and the institute and also refresh their nostalgic memories. We take pride in stating that our management students have put in their zealous and diligent efforts in academics as well as in organizing events resulting in grand success.

In 2020, the Department of Business Management organized its 1st International Conference on Business Management-ICBM 2020 on the theme "Industrial Development in the North Eastern Region- challenges and Opportunities" on 27-29 February 2020, sponsored by North East Development Council, Shillong under the Ministry of DoNER, Govt. of India and NABARD, Agartala.

### 1. Faculty Members:

,	Wiembers .		/ Contract		Feaching/ xperience		n.D lance	Th	ister esis dance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Debarshi Mukherjee	MBA, Ph.D.	Associate Professor & Head	Full time	Learning Analytics, Technology Intervention in Rural Marketing	21	02	06	08	08	58	4
Dr. Nirmalya Debnath	PhD	Assistant Professor	Full time	Marketing	12 years	NIL	04	-	-	-	-
Dr. Manish Das	Ph.D	Assistant Professor (Stage II)	Full time	Culture, Consumer Psychology, Retail, Service, Brand, Ethics & Sustainability	11 Years	-	03	08	-	57	4
Dr. Mahasweta Das Saha	B.E.(Mech), MBA, PhD	Assistant Professor	Full time	Consumer Socialization	14 years 6 months	NIL	02	08	08	-	-
Ms. Anjana Kalai	МВА	Assistant Professor	Full time	Culture and blended learning	9 years	-	-	-	-	-	-
Mr. Ambarish Deb	M.Com (University of Pune)	Guest Faculty	Guest	Banking and Finance	8 years	-	-	-	-	-	-
Ms. Sunam Nandi	MBA	Guest faculty	Guest	-	2 years	-	-	-	-	-	-
Dr. Tamal Chaudhuri	Ph.D	Assistant Professor	Contractual	Renewable Energy	16 years	-	-	-	-	-	-
Dr. Debarshi Mukherjee	MBA, Ph.D.	Associate Professor & Head	Full time	Learning Analytics, Technology Intervention in Rural Marketing	21	02	06	08	08	58	4
Dr. Nirmalya Debnath	PhD	Assistant Professor	Full time	Marketing	12 years	NIL	04	-	-	-	-

<sup>\*</sup>Must be mentioned

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2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index, and UGC approved/ Peer-reviewed/ referred only:

### 2.1 Books:

Main	Co- Authors	Title	Local/National/	Publishers	Year	ISBN
Author	CO- Authors	Title	International	Publishers	(2020-21)	ISBN
Debarshi	Mahasweta	Purvottaran – The Rise	International	Bloomsbury	2020	9789390513017
Mukherjee	Saha	of North East:				
		Paradigms of				
		Development in the				
		VUCA World				

### 2.2 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ International	Publishers	Year (2020- 21)	ISBN	Page No.
Badri S	Debarshi Mukherjee	Complex Adaptive Systems (CAS) Perspective on Human Resource Management	Debarshi Mukherjee & Mahasweta Saha	Purvottaran  - The Rise of North East: Paradigms of Development in the VUCA World	International	Blooms- bury	2020	978 939 051 301 7	229 - 236
		in Agile Teams: An Exploratory Study							
Debarshi Mukherjee	K K Hasan	Metaliteracy: A Comprehensive Learning Framework for New Age Students	Debarshi Mukherjee & Mahasweta Saha	Purvottaran  - The Rise of North East: Paradigms of Development in the VUCA World	International	Blooms- bury	2020	978 939 051 301 7	393 - 410
Debarshi Mukherjee	Rajesh Chatterjee, Sudokhina Mitra	MGNREGA on People's Health and Quality of Life - Opening of a Novel Market for Health	Debarshi Mukherjee & Mahasweta Saha	Purvottaran  – The Rise of North East: Paradigms of Development in the VUCA World	International	Blooms- bury	2020	978 939 051 301 7	111 - 122
Dr. Mahasweta Saha	Kaushik Datta	Unfolding Tourism Potential in Tripura: A Case Study of Dumburnagar	Debarshi Mukherjee & Mahasweta Saha	Purvottaran  - The Rise of North East: Paradigms of Development in the VUCA World	International	Blooms- bury	2020	978 939 051 301 7	357- 369



## 2.3 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co-Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020- 21)	ISSN/ ISBN/ DOI	Page No.
Debarshi Mukherjee	Mahasweta Saha, Hasan KK	Learning Continuity during COVID-19 Pandemic using Virtual Classroom – A Cross Border Experimental Multi Case Approach	International	Journal of Education Culture and Society (UGC CARE List, ESCI Indexed, WOS)	12.1	2021	https:// doi.org/ 10.15503/ Jecs2021. 1.335.345	335 - 345
Rosalina Othman	Debarshi Mukherjee, Hasan KK, Mostofa, SkMamun	Synchronous Web-based Learning during COVID -19 Pandemic: A Survey on Library and Information Science Students of Bangladesh	International	Journal of Information Technology Management (SCOPUS)	13.2	2021	https:// dx.doi. org/ 10.220 59/jitm. 2021. 80357	93-
Debarshi Mukherjee	Mahasweta Saha, Rajesh Chatterjee, Soumen Mukherjee	Assessment of Patient Satisfaction in Tertiary Care Public Hospitals	International	International Journal of Business Innovation and Research (SCOPUS, ABDC - C, UGC CARE – II)	-	2021	10.1504/ IJBIR. 2020.100 38486	-
Debarshi Mukherjee	Hasan, K. K., Mostofa, S. M., & Othman, R.	A Comprehensive Framework of Design Thinking Approach in Knowledge Management: A Review in Academic Context. Journal of Education Culture and Society	International	Journal of Education Culture and Society (UGC CARE List, ESCI Indexed, WOS)	11.2	2020	https:// doi.org/ 10.155 03/ jecs2020. 2.281. 294.	281 - 294
Debarshi Mukherjee	Hasan, K. K.	Learning Continuity during COVID-19 Pandemic Challenges: A Methodological and Thematic Review	International	South Asian Journal of Management (ABDC – C), UGC CARE (Journal ID is 101026392)	27.3	2020	ISSN: 0971- 5428	56 – 78



Manish Das	Charles	Impact of	International	Journal of	56	Sept.	https://	-
1410111311 003	Jebaraja	acculturation to	Michigan	Retailing and	30	2020	doi.org/	
	kirthy	western culture		Consumer		2020	10.1016/	
	Richy	(AWC) on		Services			j.jretco	
		western fashion		(Elsevier)			nser.	
		luxury		(Scopus (Q1),			2020.	
		consumption		ABDC 'A',			102179	
		among Gen-Y		CABS, UGC			1021/3	
		consumers in the		Care, Clarivate				
		Asia-Pacific		(SSCI) Impact				
		region		Factor 7.14)				
Manish Das	Victor Saha &	Inspired and	International	International	To be	June	https://	-
	Abhirupa Roy	Engaged:		Journal of	allotted	2021	doi.org/	
		Decoding		Consumer			10.1111	
		MASSTIGE value		Studies (Wiley)			/ijcs.12726	
		in Engagement		(Scopus (Q1),				
				ABDC 'A',				
				CABS, UGC				
				Care, Clarivate				
				(SSCI) Impact				
				Factor 3.9)				
Manish Das	Victor Saha &	'Standing Out'	International	Journal of	To be	May	https://	-
	Satyaprakash	and 'Fitting In':		Product and	allotted	2021	doi.org/	
	Balaji Makam	Understanding		Brand			10.1108/	
		Inspiration Value		Management			JPBM-12	
		of Masstige in an		(Emerald) (Scopus (Q1),			-2020-32	
		Emerging Market		ABDC 'A',				
		Context		CABS, UGC				
				Care, Clarivate				
				(SSCI) Impact				
				Factor 4.55 )			1 //	
Manish Das	Mohshin	Bandwagon vs	International	Journal of	61	July	https://	-
	Habib, Victor	Snob Luxuries:		Retailing and Consumer		2021	doi.org/	
	Saha, and	Targeting		Services			10.1016/	
	Charles	Customers based		(Elsevier)			j.jretco	
	Jebarajakirthy.	on Uniqueness		(Scopus (Q1),			nser.	
		Dominance		ABDC 'A',			2021.	
				CABS, UGC			102582	
				Care, Clarivate (SSCI) Impact				
				Factor 7.14)				
Charles	Manish Das	Uniqueness and	International	Journal of	60	March	10.1016/j.	-
Jebaraja-		Luxury: A		Retailing and		2021	jretconser.	
kirthy		moderated		Consumer			2021.10	
•		mediation		Services			2477	
		mechanism		(Elsevier)				
				(Scopus (Q1),				
				ABDC 'A',				
				CABS, UGC				
				Care, Clarivate				
				(SSCI) Impact				
				Factor 7.14)				
				Factor 7.14)				



Cla a vil	Mariala D	Hardaneta P	Internal Co. 1	January C		1	h	
Charles	Manish Das,	Understanding	International	Journal of	58	Jan	https://	-
Jebaraja-	Isabella	On-The-Go		Retailing and Consumer		2021	doi.org/	
kirthy	Magionni,	Consumption: A		Services			10.1016/	
	Sean Sands,	Retail Mix		(Elsevier)			j.jretco	
	Maria	Perspective		(Scopus (Q1),			nser.	
	Dharmesti,			ABDC 'A',			2020.	
	and Carlo			CABS, UGC			102327	
	Ferraro.			Care, Clarivate				
				(SSCI) Impact				
				Factor 7.14)				
Charles	Manish Das	How Self-	International	Journal of	55	July	DOI:10.	-
Jebaraja-		Construal Drives		Retailing and		2020	1016/j.	
kirthy		Intention for		Consumer			Jretco	
,		Status		Services			nser.	
		Consumption: A		(Elsevier)			2020.	
		Moderated		(Scopus (Q1),			102065	
		Mediated		ABDC 'A',			102003	
				CABS, UGC				
		Mechanism		Care, Clarivate (SSCI) Impact				
				Factor 7.14)				
Md. Ashad-	Charles	Acculturation and	International	Journal of	37(5/6)	Nov	https://	_
uzzaman	Jebarajakirthy,	apparel store	meemational	Marketing	37(3/0)	2020	doi.org/	
azzaman	Manish Das,	loyalty among		Management		2020	10.1080/	
	and Amit	migrants in		(Taylor &			026725	
				Francis)				
	Shankar.	Western		(Scopus (Q1),			7X.2020.	
		countries		ABDC 'A',			1833963	
				CABS, UGC				
				Care, Clarivate				
				(SSCI) Impact				
D.	Dr. Congosto	Fundamina the	Intornational	Factor 3.5)	ahead-	2021	ICCNI.	abaad
Dr.	Dr. Sangeeta	Exploring the	International	Internet		2021	ISSN:	ahead-
Mahasweta	Sahney	relationships		Research	of-print		1066-	of-
Saha		between		(Emerald, Web			2243	print
		socialization		of Science,			https://	
		agents, social		SSCI, Scopus,			doi.org/	
		media		ABDC "A", ABS			10.1108/	
		communication,		3, Impact			INTR-08-	
		online shopping		factor 6.77)			2020-	
		experience, and					0472	
		pre-purchase						
		search: a						
		moderated						
		model						
			1		1	l	1	1

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conference/ Seminar/ Workshop attended				
Ivallie	Research Scholar	International	National	Institution Level		
Debarshi Mukherjee	Teacher	7	Nil	Nil		

## 4

# 4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Debarshi	Kolkata	30.07.	Amity University	Corporate Governance: Issues &
Mukherjee		2021		Challenges
Debarshi	Uttar	29.07.	Shobhit University	Formulation & Implementation of a
Mukherjee	Pradesh	2021		Multi-Disciplinary Liberal Education
				Framework
Debarshi	Pune	15.07.	IEEE & Symbiosis University	Education 4.0 in the Realm of Learning
Mukherjee		2021		Continuity
Debarshi	Kolkata	18.07.	Rabindrik Psychotherapy	Learning Analytics & Its Usefulness
Mukherjee		2021	Research Institute Trust	
Debarshi	Tamilnadu	13.07.	Trinity College, Namakkal,	Learning Analytics using Moodle
Mukherjee		2021	Tamilnadu in association with	
			UGC-HRDC of BPSM	
			Vishwavidyalaya, Haryana	
Debarshi	Noida	24.06.	Amity University	Education 4.0 in the realm of Learning
Mukherjee		2021		Continuity
Debarshi	Jaipur	21.06.	Subodh Institute of	Impact of COVID19 on Industries , a
Mukherjee		2021	Management,	North East Experience, and Evolving
				Alternatives
Debarshi	Gurgaon	8.05.	St. Andrews Institute of	NEP 2020: A Brief Discussion
Mukherjee		2021	Technology & Management	
Debarshi	Kolkata	6.05.	ATAL Workshop by	Health Care Analytics – A Quest for
Mukherjee		2021	BharatiyaVidyabhavan School	Digitization
			of Management,	
Debarshi	Agartala	23.02.	MBB University	Empowering the Youth for a Better
Mukherjee		2021		Tomorrow -An Economic Perspective
Debarshi	Agartala	5.02.	Tourism Department, Ministry	Prospects & Challenges of Tourism in
Mukherjee		2021	of Tourism, Govt. of Tripura	Tripura
Debarshi	Agartala	11.02.	ATAL Workshop by Tripura	Moving Forward with Digital
Mukherjee		2021	University	Transformation
Debarshi	Agartala	1.12.	FDC of Tripura University	Online Learning Resilience using Design
Mukherjee		2020		Thinking Approach
Debarshi	Silchar	22.10.	Dept. of Social Work, Assam	Rural Livelihood and MGNREGA
Mukherjee		2020	University	
Debarshi	Afghanistan	18.11.	MirwaisNeeka Institute of	Fostering Leadership using Design
Mukherjee		2020	Higher Education, Islamic	Thinking Approach
			Republic of Afghanistan	
Manish Das	Agartala	July 17,	Holy Cross College	Need of Research Publications and
		2021		Academic Contributions for CAS based
Dr	Online	04/06/	UNIT College of Management	Promotion  Possarch Passed Learning through SPSS
Dr. Mahasweta	Online- Greater	04/06/ 2021	IIMT College of Management, Greater Noida, UP.	Research Based Learning through SPSS in an one week online FDP on
Saha	Noida	2021	Greater Nolua, UP.	"Innovative Pedagogy for Effective
Jana	NUIUd			Teaching & E- Learning During COVID-
				19 Era"



5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of	Par time/			Registered/
Scholars	Full time	Research topic	Name of Guide	Theses submitted/
				Awarded
Manish Das	Part Time	Effect of Culture on Consumer	Debarshi	Awarded
		Behaviour: A Generational Cohort	Mukherjee	
		Comparison of Tripura		
Soumen	Part Time	Assessment of Patient Satisfaction in	Debarshi	Awarded
Mukherjee		Tertiary Care Hospitals and	Mukherjee &	
		Development of a Tertiary Healthcare	Rajesh Chatterjee	
		Infrastructure Map of Tripura	(Co-Supervisor)	
Sudakhina	Part Time	Impact of Mahatma Gandhi National	Debarshi	Registered
Mitra		Employment Guarantee Scheme	Mukherjee &	
		(MGNREGS) on Rural Livelihood	Rajesh Chatterjee	
		Development in Tripura	(Co-Supervisor)	
Kamrul	Full Time	Developing a Blended Learning Model	Debarshi	Course work
Khandakar		of Management Education Using	Mukherjee	completed
Hasan		Design Thinking Approach		
Subhayan	Part Time	To be decided	Debarshi	Course work
Chakraborty			Mukherjee	started
Goutam Deb	Part time	Adoption behaviour towards online	Dr. Nirmalya	Registered
		health information portal in Tripura	Debnath	
Jayanta Das	Part time	Showrooming or Webrooming: What	Dr. Nirmalya	Registered
•		Triggers the Buying Intention of	Debnath	
		Customers and Why		
		·		
Sharmili	Part time	The Moderating Role of Green	Dr. Nirmalya	Registered
Chakraborty		Perceived Value (GPV) Towards Green	Debnath	
		Cosmetic Purchase Intention of		
		Consumers in Tripura		
Lokesh Kumar	Full Time	To be decided	Debarshi	Course work
Jena			Mukherjee	started
Abhirupa Roy	Full Time	To be decided	Manish Das	Course work
. ,				started
Prasun Gehlot	Full Time	To be decided	Manish Das	Course work
				started
Subhadip Paul	Full Time	To be decided	Manish Das	Course work
			1	started
Mautushi	Part Time	To be decided	Dr. Nirmalya	Course work
Chaudhuri			Debnath	completed
Kumar Gaurav	Full time	To be decided	Dr. Mahasweta	Yet to be
			Saha	registered
Subhadip Mitra	Full time	To be decided	Dr. Mahasweta	Yet to be
Sabridary Willia	1 un unie	To be decided	Saha	registered
			Jana	registereu

## 6. Outreach Footprint of the Department:

#### **Local Industry Tour on 25/03/2021**

Department of Business Management, Tripura University organized a one-day local industry visit for the students of MBA 1st semester as a part of their curriculum to acquaint them with industry functioning. The visit was organized on 25/03/2021; with financial support from the university.52 nos. of MBA 1st semester students along with the faculty members visited two prominent companies (Mutha Industries limited and CIPET) in Bodhjanjnagar Industrial Estate, Khayerpur, Agartala.Mutha deals with bamboo as raw material and converts theminto bamboo woods for manufacturing logs, furniture, tiles, and home furnishing. Students gotexposure to various issues related to production and supplychain. CIPET Agartala is mainly involved in two activities: 1) Skill-based training of the unemployed youths in the area of plastic mold design and preparation 2) Manufacturing Plastic containers as per production order received from govt., semi-govt. and private firms. They have established tool rooms containing machines like drilling, milling, grinding, lathe, CNC etc. utilizing which they provide skill training to the youths in addition to certifications and employment opportunities.

## 6.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

		1		Defector / Otto date	1	
				Refresher / Orientation		
SI.	Date	Duration	Title	Courses / Seminar/	International/	No. of
No.				Conference/ Workshops/	National	Participants
				Symposia Lecture/ Talk		
1	08-02-21 to	5 Days	ATAL (AICTE) FDP	Faculty Development	National	189
	12-02-21		on 'Management	Program		
			Information System'			
2	22/07/2020	1 Day	Life Vs Livelihood:	Webinar	National	70
			Impact of Covid19			
			Pandemic on Indian			
			Economy			
3	7/10/2020	5 Days	Pedagogical	Faculty Development	National	100
	То		Practices of New	Program		
	11/10/2020		India under			
			National Education			
			Policy 2020			
4	24/11/2020	3 Days	A National	Workshop	National	93
	to		Workshop on			
	26/11/2020		Enhancing Digital			
			Skills among the			
			Youths of North			
			Eastern States:			
			Towards a Digital			
			India			



#### 6.2 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Nirmalya Debnath	Indian Economic Association	Executive Member

#### 6.3 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Dr. Nirmalya	Online FDP on Research Methodology and Statistical	Online	One week	June 22-28,
Debnath	data Analysis through SPSS			2020
Dr. Nirmalya	AICTE Training and Learning (ATAL) Academy Online	Online	5 Days	8 <sup>th</sup> to 12 <sup>th</sup>
Debnath	FDP on "Management Information System"			February 2021
Dr.	Refresher Course under the scheme of PMMMNMTT,	Agartala,	14 Days	1 <sup>st</sup> December
Mahasweta	MHRD, Deptt. Of Higher Education, Govt. of India,	Tripura		to 14 <sup>th</sup>
Saha	organized by Tripura University, FDC titled "Teachers			December
	on Using ICT for Online Teaching-Learning Process"			2020

#### 7. Major thrust area of research:

The department is working in multifaceted dimensions of management studies including the development of tribal research and social infrastructure research. Further, the department is focusing on the development of blended learning models, learning analytics, retail marketing, culture and consumer behaviour, services marketing, consumer psychology, e-service quality, consumer socialization, and internet usage, consumer behavior towards mobile banking, and social media usage.

#### 8. New initiatives/Innovations:

- In the process of setting up a business incubator funded by MSME.
- Published a book titled "Purvottaran The Rise of North East: Paradigms of Development in the VUCA World (Ed.)" (published by Bloomsbury).

#### 9. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. In Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Debarshi	Rajesh	ICSSR,	Impact of MGNREGA on	10	7	2 years
Mukherjee	Chatterjee	New	Development of Rural			
		Delhi	Livelihood in Tripura			

## 10. Awards/Medals/Honours\*(State/National/International level) received by the Teachers during the academic year 2020-21:

Name of Teacher	Name of Awards/ Medals/ Honours	Date of Awards/ Medals/ Honours	Awarding Agency/Institution	Remarks
Dr. Debarshi Mukherjee	3 <sup>rd</sup> Prize-Best Paper Award with a cash prize of Rs 5000/-	1 <sup>st</sup> August 2020	Amity University Patna, International Web Conference on "Pandemic Effect and Global Economy: Unseen Challenges and Opportunities Post Covid-19 Diagnosis (IC 2020)	Presented a Paper on "Effects of COVID-19 on E- commerce: Challenges and Directions for Digital Transformation"



Dr.	3 <sup>rd</sup> Prize-Best	1 <sup>st</sup> August 2020	Amity University Patna,	Presented a Paper
Mahasweta	Paper Award with		International Web Conference	on "Effects of
Saha	a cash prize of Rs		on "Pandemic Effect and Global	COVID-19 on E-
	5000/-		Economy: Unseen Challenges	commerce:
			and Opportunities Post Covid-19	Challenges and
			Diagnosis (IC 2020)	Directions for Digital
				Transformation"

#In case of sports, inter university, zonal may also be considered.

### 11. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

Name of Teacher	Name of other Universities / Institutes / Industry	Collaboration on Project	Year (2020-21)
Manish Das	Griffith University (Australia)	Research Projects &	2020 &
	ESCP Business School (France)	Publications	2021
	Swinburne University of Technology (Australia)		
	Nottingham University Business School Ningbo (China)		
	Indian Institute of Management, Visakhapatnam		
	OP Jindal University (India)		

### 12. Details of Student's Placement known to the Department:

Name	Sex (M/F)	Category (GEN/ ST/SC/ OBC/EWS/MIN)	PH (Yes /No)	Name of the Organization/ Institution	Designation	Examination Body	Name of the Examination
ABHIJIT	М	OBC	No	BANDHAN	Management	HR Officials	Personal
CHANDA				BANK	Trainee	of the Bank	Interview
MITON DAS	М	SC	No	BANDHAN	Management	HR Officials	Personal
				BANK	Trainee	of the Bank	Interview
AKASH NATH	М	OBC	No	BANDHAN	Management	HR Officials	Personal
				BANK	Trainee	of the Bank	Interview
SOURAV	М	GEN	No	BANDHAN	Management	HR Officials	Personal
KARMAKAR				BANK	Trainee	of the Bank	Interview
BISHAL KANTI	М	GEN	No	YES BANK	Management	HR Officials	Personal
DEB					Trainee	of the Bank	Interview



Head of the Department : Prof. Chinmoy Roy

Year of Establishment : 1988

Programmes on offer : M. Com., IMD, PGDFT, and Ph. D.

Intake capacity : M.com. (84), IMD (30), PGDFT (30), and Ph. D.

(as per available vacancy)

#### Major achievements/ Vision of the Department:

"The Department of Commerce was established in the year 1988 under the Faculty Arts & Commerce with a vision of providing excellence in the fields of Commerce by imparting value based education, training and research. Since its inception, the primary aim of the Department has been to make the students skilled enough to and respond to changes in society through the development and application of knowledge. The Department also tries towards creating a people centered, ecologically sustainable and just society that promotes and protect dignity, equality, social justice and human rights for all. The aim of the department is to focus on skill based outreach programme that would help the student to serve the society efficiently across the broad range of humanities' challenges in the globalized era. The department is making its utmost effort to make the Department the best place for Commerce education taking together both academics and research activities."

#### 1. Faculty Members:

			aching/	Ph.D. Guidance		Master Thesis Guidance					
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Prof.	M. Com.,	Professor	Full	Entrepreneurship	30	3	4	40	8		
Prallad	Ph. D.		Time	& Management							
Debnath											
Prof.	M. Com.,	Professor	Full	Accounting,	28	4	6	40	8	42	3
Chinmoy	ICWAI (Inter),		Time	Finance &							
Roy	Ph. D.			Management							
Dr. Subir	M.Sc.	Assistant	Full	Economics,	17	1	2	50	8	8	2
Kr. Sen	(Economics),	Professor	Time	Operations							
	Ph. D.			Research &							
	(Economics)			Statistics							
Dr. Joy	M. Com.	Assistant	Full	Finance	11	0	3	60	8	11	2
Das	(Finance),	Professor	Time								
	Ph. D.										

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Dr. Rajat	M. Com.	Assistant	Full	Accounting,	13	0	3	56	8	62	4
Deb	(Accounting),	Professor	Time	Taxation &							
	MBA			Personal Finance							
	(Finance) &										
	Ph. D.										
Mr.	M. Com.	Guest	Guest	Finance	3	0	0	0	0	5	1
Animesh		Teacher	Teach								
Bhattach			er								
arjee											
Mr.	M. Com.	Guest	Guest	Accounting	0	0	0	0	0	-	-
Mukesh		Teacher	Teach								
Nepal			er								
Mr.	M. Com.	Guest	Guest	Finance	0	0	0	0	0	_	-
Mahesh		Teacher	Teach								
Dahal			er								

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

### **2.1** Books:

Main Author	Co- Authors	Title	Local/National/ International	Publishers	Year (2020- 21)	ISBN
-	Prof. Chinmoy Roy	Rural Banking in India	National	University Book House (P) Ltd.	2021	978-81- 947421- 6-6

### 2.2 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National /Inter- national	Publishers	Year (2020 -21)	ISBN	Page No.
Rupa Debbarma	Dr. Subir Kr. Sen	Determinants of Corporate Capital Structure: Evidences from Listed Manufacturing Sector Firms in India	R Kaur & P Kaur	Emerging Dimensions in Manageme nt and Commerce	National	National Press Associates	2021	978- 93- 908 63 -05-1	128- 138
Dr. Joy Das	Animesh Bhatta- charjee	Impact of FDI on Indian Manufacturing: A Study Post-launch of Make in India Initiative. (Vol. III).	A. K. Chaudhari, C. K. Roy, & A. Manglani	Sloganomics : Empowerin g Indian Economy	National	New Delhi Publishers, New Delhi.	2020	978- 93 -888 79 -86-6	1-14



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1512	Annual Report 2020-2021		
		4	

	Animach	COVID 10	Dr. K.B.	Indian	Mational	Navaug	2020	079	
	Animesh Bhatta- charjee	Ovidential Covidential Coviden	Singh	Indian Economy 2020: Current Issues and Future Prospects	National	Navyug Books Internation al, Delhi:	2020	978- 81 946 182 -0-1	124- 138
	Mahesh Dahal	Impact of Demonetization on Banking Sector Stock.	Dr. K.B. Singh	Indian Economy 2020: Current Issues and Future Prospects	National	Navyug Books Internation al, Delhi:	2020	978- 81- 946 182 -0-1	226- 245
	Paulami Ray	Linkage Between Community-Based Homestay and Rural Development: Its Applicability in Tripura.	Dr. Annesha Saha, Dr. Gokul Acharjee, Sujoy Hazari, Dr. Debanjan Nag & Dr. Niharika Singh	Entrepreneu rial Challenges During COVID-19: Recent Trends and Innovations	National	Global Vision Publishing House, New Delhi	2021	978- 93- 904 23 -42-2	102- 129
Dr. Rajat Deb	NA	IFRSs Convergence and Expectation Gap		Emerging Issues and Debates in Accounting and Finance	National	Departmen t of Commerce, University of Gaur Banga	Oct, 2020	-	159- 195
	NA	Picturing the Indian Automotive Sector's Slowdown		Innovation Manageme nt and Growth in Emerging Economies	Inter- national	IGI Global, Pennsylvan ia, USA	Oct, 2020	978 179 984 1951	16- 25
Mr. Animesh Bhatta- charjee	Dr. Joy Das	Impact of FDI on Indian Manufacturing: A Study Post-launch of Make in India Initiative. (Vol. III).	A. K. Chaudhari, C. K. Roy, & A. Manglani	Sloganomics : Empowerin g Indian Economy	National	New Delhi Publishers, New Delhi.	2020	978- 93- 888 79 -86-6	1-14
	Dr. Joy Das	COVID-19 Outbreak and Its Impact on India.	Dr. K.B. Singh	Indian Economy 2020: Current Issues and Future Prospects	National	Navyug Books Internation al, Delhi:	2020	978- 81 -946 1 82-0- 1	124- 138
Mr. Mahesh Dahal	Dr. Joy Das	Impact of Demonetization on Banking Sector Stock.	Dr. K.B. Singh	Indian Economy 2020: Current Issues and Future Prospects	National	Navyug Books Internation al, Delhi:	2020	978- 81- 946 182- 0-1	226- 245

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## 2.3 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

<u> </u>	•							
Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020 -21)	ISSN/ ISBN/ DOI	Page No.
	Prof. Prallad Debnath	Expectation Gap Analysis in Corporate Financial Reporting Practices in India	National	Management and Labour Studies [A UGC CARE Listed (Group-II) Journal]	46(1)	Feb, 2021	2321- 0710	38- 58
Prof. Chinmoy Roy	Abhirupa Roy	Identifying Decisive Drivers of Regional Rural Banks in India: A Multi factor Sensitivity Analysis	National	Odisha Journal of Commerce [UGC-CARE Listed Journal]	41(3)	2020	0974- 8482	27- 40
Sujit Das; Basudeb Bhatta- charjee & Abhirupa Roy	Prof. Chinmoy Roy	Relative Effectiveness in Banking from Outcome to Outreach: Role of Regional Rural Banks in India	National	Sambodhi Journal [UGC-CARE Listed Journal]	43(4)	2020	2249- 666	112- 119
Abhirupa Roy, Basudeb Bhattacharya	Prof. Chinmoy Roy	Detecting Input Measures of Regional Rural Banks in India through Multifaceted Super efficiency Model	International	Journal of Contemporary Issues in Business & Government [UGC-CARE Listed Journal]	27 (2)	2021	1323- 6903	2211 - 2218
Basudeb Bhattacharya; Abhirupa Roy & Sujit Das	Prof. Chinmoy Roy	Efficiency of Tourism Industry in Asian Countries- An Optimization Approach through DEA Frontier.	National	The Journal of Oriental Research [UGC-CARE Listed Journal]	91 (4)	2020	0022- 3301	74- 85
Dr. Joy Das	Animesh Bhatta- charjee	Do Indian Stock Prices Respond to Domestic Macroeconomic Variables?	National	NMIMS Management Review [UGC-CARE Listed Journal]	(3)	2020	0971- 1023	55- 71
	Animesh Bhatta- charjee, Madhu Kumari	Investigating the Impact of the Announcement of Loan Moratorium on Stock Prices: Evidence from Indian Public Sector Banks.	National	Jindal Jounal of Business Research [UGC-CARE Listed Journal]	9(2)	2020	2278- 6821 Online ISSN: 2321- 0311	106- 116
	Animesh Bhatta- charjee	The Relationship between USD-INR Exchange Rate and Indian Stock Market.	National	SEMCOM Management and Technology Review [UGC-CARE Listed Journal]	8(1)	2020	2321- 5968	1-6



	Animesh	Determinants of	International	Skyline Business	16(1)	2020	Online	29-
	Bhatta-	leverage: evidence		Journal			ISSN	44
	charjee,	based on BSE listed		[Peer-reviewed			2707-	
	Madhu	Indian auto ancillary		journal published			4986	
	Kumari	firms.		by Skyline			Print	
				University College,			ISSN	
				Sharjah, UAE]			1998-	
				Silarjan, OALJ			3425	
	Animesh	The Role of Foreign	National	NMIMS Journal of	VI(1)	2020	-	10-
	Bhatta-	Direct Investment	Ivacional	Economics and	VI(I)	2020		21
	charjee	on Stock Market		Public Policy				21
	Charjee	Development:		Public Policy				
		Evidence from India						
	Mahesh	Impact of Dividend	National	NMIMS Journal of	VI(1)	2020	-	65-
	Dahal	Announcements on		Economics and				78
		Share Price of		Public Policy				
		Indian Banking						
	Animesh	Sector Companies. Investigating the	National	Paradigm [Sage	25(1)	2020	ISSN:	61-
	Bhatta-		ivational	Publication]	23(1)	2020	0971-	76
		Long-run and the Short-run		rubiicatiO[1]				/6
	charjee						8907,	
		Relationship					Online	
		Between Domestic					ISSN:	
		Macroeconomic					2394-	
		Forces and Indian					6083;	
		Equity Market:						
		Evidence based on						
		ARDL Bounds						
		Testing Approach.						
Dr. Rajat Deb	Prof. Prallad	Expectation Gap	National	Management and	46(1)	Feb,	2321-	38-
	Debnath	Analysis in		Labour Studies [A		2021	0710	58
	Prof.	Corporate Financial		UGC CARE Listed				
	Anandomoh	Reporting Practices		(Group-II) Journal]				
	an Pal	in India						
	NA	Is RCEP A Panacea	National	The Indian	69(2)	June,	0019-	-
		for India?		Economic Journal[A		2021	4662	
				UGC CARE Listed				
				(Group-II) Journal]				
	NA	Limning India's Tax	National	VILAKSHAN – XIMB	18(2)	June,	0973-	-
		Terrorism Saga		Journal of		2021	1954	
				Management[A				
				UGC CARE Listed				
	Mr. Mukesh	Do People Choose	National	(Group-II) Journal]  Metamorphosis- A	20(1)	June,	0972-	_
		Life Insurance for	INGLIUIIGI	Journal of	20(1)	2021	6225	-
	Nepal, Mr.	Protection or for		Management			5225	
	Kanchan	Saving?		Research[A UGC				
	Kumar Nath,	-		CARE Listed				
	Mr. Sourav			(Group-II) Journal]				
	Chakraborty		1					
							1	1
	& Dr. K. S.							
	Chakraborty							
		YES Bank Fiasco: A	National	Decision (Journal of	48(2)	June,	0972-	-
	Chakraborty	YES Bank Fiasco: A Corporate Governance Failure	National	Decision (Journal of Indian Institute of Management	48(2)	June, 2021	0972- 6225	-







Mr. Animesh Bhattacharjee	Dr. Joy Das	Do Indian Stock Prices Respond to	National	NMIMS Management	XXXVIII (3)	2020	0971- 1023	55- 71
Bilattacilarjee		Domestic Macroeconomic Variables?		Review	(5)		1020	, -
	Madhu Kumari, Dr. Joy Das	Investigating the Impact of the Announcement of Loan Moratorium on Stock Prices: Evidence from Indian Public Sector Banks.	National	Jindal Jounal of Business Research [UGC-CARE Listed Journal]	9(2)	2020	2278- 6821 Online ISSN: 2321- 0311	106- 116
	Dr. Joy Das	The Relationship between USD-INR Exchange Rate and Indian Stock Market.	National	SEMCOM Management and Technology Review [UGC-CARE Listed Journal]	8(1)	2020	2321- 5968	1-6
	Madhu Kumari, Dr. Joy Das	Determinants of leverage: evidence based on BSE listed Indian auto ancillary firms.	International	Skyline Business Journal [Peer-reviewed journal published by Skyline University College, Sharjah, UAE]	16(1)	2020	Online ISSN 2707- 4986 Print ISSN 1998- 3425	29- 44
	Dr. Joy Das	The Role of Foreign Direct Investment on Stock Market Development: Evidence from India	National	NMIMS Journal of Economics and Public Policy	VI(1)	2020	-	10- 21
	Dr. Joy Das	Investigating the Long-run and the Short-run Relationship Between Domestic Macroeconomic Forces and Indian Equity Market: Evidence based on ARDL Bounds Testing Approach.	National	Paradigm [Sage Publication]	25(1)	2020	ISSN: 0971- 8907, Online ISSN: 2394- 6083;	61– 76
Mr. Mahesh Dahal	Dr. Joy Das	Impact of Dividend Announcements on Share Price of Indian Banking Sector Companies.	National	NMIMS Journal of Economics and Public Policy	VI(1)	2020	-	65- 78

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/Research Scholar	Number of Conference/ Seminar/ Workshop attended			
	Scholar	International	National	Institution Level	
Prof. Prallad Debnath	Teacher	0	0	0	
Prof. Chinmoy Roy	Teacher	0	0	0	
Dr. Subir Kr. Sen	Teacher	0	3	2	



Dr. Joy Das	Teacher	4	7	0
Dr. Rajat Deb	Teacher	7	28	0
Mr. Animesh Bhattacharjee	Guest Teacher	1	4	0
Mr. Mukesh Nepal	Guest Teacher	7	15	0
Mr. Mahesh Dahal	Guest Teacher	1	7	0

## 4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Dr. Subir Kr.	Guwahati	17/12/2020	NIRDP-NERC, Guwahati	Data Analysis Methods
Sen	(Virtual)	10/10/2020	0.10	
Dr. Subir Kr.	Department of	18/12/2020	3rd One-Week National	R Programming
Sen	Information		Workshop on Emerging	
	Technology,		Tools and Technologies in	
	Tripura		Research organized by the	
	University		Department of Information	
	(Virtual)		Technology, Tripura	
			University	
Dr. Subir Kr.	Kolkata	19/04/2021	Adamas University, Kolkata	Data Analysis for Social science
Sen	(Virtual)			Research using spreadsheets
Dr. Subir Kr.	Dharmanagar	09/05/2021	Government Degree	Status of Unemployment during
Sen	(virtual)		College, Dharmanagar	Pre and Post Covid-19 in the North
				Eastern Region of India
Dr. Subir Kr.	Guwahati	23/06/2021	NIRDP-NERC, Guwahati	Data Processing & Data Analysis
Sen	(Virtual)			Methods
Dr. Joy Das	Agartala	10/12/2020	Rural Development & Self	1. Accounts and Book-Keeping; 2.
			Employment (RUDSET)	Costing & Pricing, BEP and Profit
		05/02/2024	Institute, Tripura	Management
	Agartala	06/02/2021	Rural Development & Self	1. Accounts and Book-Keeping; 2.
			Employment (RUDSET)	PMEGP Salient Features
			Institute, Tripura	
Dr. Rajat Deb	Agartala	25/07/2020	Department of Commerce,	Levy and Collection of Taxes under
	(virtual)		Ram Thakur College, Agartala	GST
	Noida (virtual)	27/08/2020	Amity University, Noida	The Future of Globalization after
	Troida (vii taai)	27,00,2020	Turney Ornversicy, Horau	the Crisis of 2020
	Agartala	31/10/2020	RUDSETi	Book-Keeping, Accounting, BEP,
	Agartaia	31/10/2020	RODSETT	Cost & Pricing
	Agartala	23/01/2021	Indian Institute of	Basics of Finance and Financial
	/ igui cuiu	23,01,2021	Entrepreneurship (IIE)	Planning & Basics of Book-Keeping
			Entrepreneurating (iie)	& Accounting
	Agartala	15/02/2021	RUDSETi	Establishing an Enterprise –whom
				approach for what? Resource
				Mobilization, Supporting
				Organizations & Financial
				Management and Working Capital
				Management and Working Capital Cycle

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Agartala	24/02/2021	National Institute of Rural Development and	Project Appraisal (Financial)
		Panchayati Raj, North Eastern Regional Centre	
		(NIRDPR –NERC) at SIPARD	
Agartala	27/02/2021	RUDSETi	Accounting and Book-Keeping,
Agaitala	27/02/2021	NODSETT	Costing & Pricing Strategy, Break
			Even Analysis, Profit Management
Agartala	19/03/2021	Indian Institute of	Basic Finance and Financial
		Entrepreneurship (IIE)	Planning
Agartala	20/03/2021	RUDSETi	Financial Management, working
			capital, working capital cycle and
			fixed capital & Inventory
			Management
Dharmanagar	09/05/2021	Government Degree	The COVID-19 Pandemic: Indian
(virtual)		College, Dharmanagar	MSME Sector Panorama
Guwahati (virtual)	26/05/2021	National Institute of Rural Development and Panchayati Raj, North Eastern Regional Centre (NIRDPR –NERC) at SIPARD	Financial Appraisal of Projects
Agartala	25/06/2021	SIPARD	COVID-19 Pandemic: Economics
(virtual)			and Development & Austerity
			Measures
Agartala	26/06/2021	SIPARD	COVID-19 Pandemic: Economics
(virtual)			and Development &Austerity
			Measures

# 5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year 2020-21:

Name of	Par time/	Research topic	Name of	Registered/Theses
Scholars	Full time	Research topic	Guide	submitted/ Awarded
Bankim	Part Time	Management of Intermediaries in	Prof. Prallad	Thesis Submitted
Debbarma		Life Insurance Corporation of India:	Debnath	
		A Case Study of Silchar Division		
Sukharanjan	Part Time	A study of Small savings and	Prof. Prallad	Thesis Submitted
Debnath		Investment Pattern in Tripura	Debnath	
Madhu	Full Time	An Enquiry into the Linkage	Prof. Prallad	Registered
Kumari		Between Investments Made by	Debnath	
		Domestic and Foreign Institutional		
		Investors and the Factors Affecting		
		them		
Sankar	Part Time	Creative Financial Reporting	Prof.	Registered
Debnath		Practices of PSEs in India:	Chinmoy Roy	
		Reflections on 'Vital Betweenness'		
		of Decoration and Representation		

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Mrinal	Part Time	Spending on R&D and the Growth	Prof.	Registered
Chowdhury	T die Tillie	of PSEs in India: A Study on	Chinmoy Roy	Registered
chowana, y		Reflective Choices.		
Ashit Das	Part Time	Working Capital Management	Prof.	Registered
		Strategies in PSEs: A Study of Cash	Chinmoy Roy	
		Flow Sensitivity on Performance.		
Manik	Full Time	Impact of Capital Structure on	Prof.	Completed Course
Chakraborty		Corporate Financial Performance:	Chinmoy Roy	Work
		Evidence from NSE Listed Public		
		Companies in India		
Juhendra	Full Time	Influence of Corporate Governance	Prof.	Completed Course
Debbarma		on Creative Accounting Practice:	Chinmoy Roy	Work
		Evidence from NSE Listed Public		
		Companies in India		
Rupa	Part Time	Determinants of Corporate Capital	Dr. Subir	Thesis Submitted
Debbarma		Structure: Evidences from Listed	Kumar Sen	
		Manufacturing Sector Firms in India		
Harsanglian	Part Time	Status of Road Transport Network	Dr. Subir	Registered
Halam		Connectivity: A Study of North	Kumar Sen	
		Eastern Region of India		
Mr. Animesh	Part Time	Impact of Domestic	Dr. Joy Das	Registered
Bhattacharjee		Macroeconomic Fundamentals on		
		Stock Market Performance:		
		Evidence from India		
Mr. Mahesh Dahal	Part Time	Efficient Market Hypothesis	Dr. Joy Das	Completed Course Work
Mr. Dinesh	Full Time	Financial Inclusion	Dr. Joy Das	Completed Course
Darnal				Work
Ms. Anita	Full Time	Yet to be finalized	Dr. Rajat Deb	Pursuing Course
Behera				Work
Mr. Sourav	Part Time	Yet to be finalized	Dr. Rajat Deb	Completed Course
Chakraborty				Work
Mr. Mukesh	Full Time	Yet to be finalized	Dr. Rajat Deb	Completed Course
Nepal				Work

## 6. Outreach Footprint of the Department:

6.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/ Workshops/ Symposia Lecture/ Talk	International/ National	No. of Participants
1.	22-26	5 days	Business Data Analysis	ATAL Faculty Development	National	200
	September,		using R Software	Programme [Online]		
	2020					
2.	16-18	3 days	5th North East Green	Conference	National	30
	November,		Summit [Organised as a			
	2020		Nodal Centre for the State			
			of Tripura]			

### 6.2 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Prof. Prallad Debnath	AIMA, ICA, IAA	Life Membership
Prof. Chinmoy Roy	AIMA, ICA, IAA, ESSOT	Life Membership
Dr. Subir Kr. Sen	TIES, ORSI, AIMA, ICA	Life Membership
Dr. Joy Das	AIMA, ICA, IAA, ESSOT	Life Membership
Dr. Rajat Deb	AIMA, ICA, IAA, IAARF, AIMS International, ESSOT	Life Membership

## 6.3 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Dr. Subir	Workshop on Time Series Data	Data Analytics Lab, Indian Institute	2 days	28-29
Kr. Sen	Analysis	of Information Technology,		August,
		Allahabad [Online Mode]		2020
Dr. Joy Das	5-Day FDP on Case Writing	Amity College of Commerce &	5 days	20th-24th
	Methodology	Finance, Amity University Kolkata		July 2020
	Two Days Online National	Guru Angad Dev Teaching Learning	2 days	17th-18th
	Workshop entitled "Online	Centre, SGTB Khalsa College,		July 2020
	Teaching-Learning using LMS - MOODLE"	University of Delhi		
	One Week National Faculty	Guru Angad Dev Teaching Learning	5 days	11th-16th
	Development Program "One Week	Centre, SGTB Khalsa College,		August
	National Faculty Development Program"	University of Delhi		2020
	One Week Online Workshop on	Department of Statistics, Gauhati	5 days	18th-24th
	"Data Analysis using SPSS and R"	University		August,
				2020
	Two Week RefresherCourse	Faculty Development Centre,	2 weeks	15 <sup>th</sup> -28th
	entitled: "Making Teaching	Tripura University		March,
	Effective"	,		2021
Dr. Rajat	FDP on Data Analysis using	Department of Statistics, Amity	5 days	14-18 <sup>th</sup> July
Deb	Advanced Excel & R- Programming	University Kolkata	,	2020
	5-Day FDP on Case Writing	Amity College of Commerce &	5 days	20-24 <sup>th</sup> July
	Methodology	Finance, Amity University Kolkata	,	2020
	10-Day Online National Level Skill	Department of Commerce,	10 days	16-29 <sup>th</sup> July
	Development Programme on GST-	Bharathiar University		2020
	Registration, Assessment and	,		
	Filing of Returns			
	2-Day Workshop on Time Series &	Indian Accounting Association	2 days	18-19 <sup>th</sup>
	Penal Data Analysis	Bhubaneswar Branch		August
				2020
	10-Day Online Hands-On Training	Department of Commerce,	10 days	17-28 <sup>th</sup>
	Programme on GST- Registration,	Bharathiar University		August
	Assessment and Filing of Returns			2020
	Under GST Law	_	_	
	One Week Trans-Disciplinary	Department of Commerce, Rajiv	5 days	24-28 <sup>th</sup>
	Online National Faculty	Gandhi University		August
	Development Programme (e-FDP)			2020
	on 'Resilience, Resurgence and Revival Measures for Unorganized			
	Sector: A Roadmap to Self-Reliant			
	India			
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One Week Faculty Development Programme (Investors Education Programme) entitled "World Economy on Tenterhooks and Indian Economy Road Ahead"	Faculty Of Commerce and Management of A. R. B. Garud Arts, Commerce and Science College, Shendurni, Dist. Jalgaon, Maharashtra, India and Bombay Stock Exchange Brokers Forum, Mumbai	5 days	21-25 <sup>th</sup> September 2020
2-Day National Open Workshop on "Getting Aligned to the Publishing Process"- Author Workshop	Elsevier Publications	2 days	24-25 <sup>th</sup> September 2020
Workshop on Payroll Management	Sree Vidyaniketan Institute of Management, Tirupati	3 days	24-26 <sup>th</sup> September 2020
5-Day Online FDP on Universal Human Values for DEEKSHARAMBH (Student Induction Program)	NIT Patna	5 days	21-25 <sup>th</sup> September 2020
2-Day National Open Workshop on Getting Aligned to the Publishing Process	Elsevier Publications	2 days	27-28 <sup>th</sup> September 2020
One Week Online Workshop on Internet of Things (IoT) Enabled Devices in Various Domain of Engineering	B. T. Kumaon Institute of Technology, Dwarahat, Almora, Uttrakhand	5 days	21-25 <sup>th</sup> September 2020
ATAL Academy Online FDP on Organizational Behaviour	Institute of Management Technology (IMT) Nagpur	5 days	26-30th October, 2020
ATAL Academy Online FDP on Strategic Planning For Educational Institutions	P. A. C. Ramasamy Raja Polytechnic College, Tamilnadu	5 days	16-20th November, 2020
5-Day Online FDP on Universal Human Values for DEEKSHARAMBH (Student Induction Program)	NIT Patna	5 days	23-27 <sup>th</sup> November 2020
AICTE Sponsored Two Week (Online) Faculty Development Programme on Deflate Financial Derivatives	GRG School of Management Studies & PSGR Krishnammal College for Women, Coimbatore	10 days	7-19 <sup>th</sup> December 2020
ATAL Academy Online FDP on Leadership & Excellence	School of Management, KIIT Bhubaneswar	5 days	13-17 <sup>th</sup> January 2021
ATAL Academy Online FDP on Data Analytics in Business Research	Department of Rural Management, BabasahebBhimraoAmbedkar University	5 days	29 <sup>th</sup> January-2 <sup>nd</sup> February 2021
Six Days Online Training Program on 'MATLAB"	Department of Computer Applications, Bharathiar University	6 days	10-17 <sup>th</sup> March, 2021



Online Short Term Training	Institute of Business Management &	5 days	26 <sup>th</sup> April-
Program (STTP) on 'Management	Research (IBMR), IPS Academy,		1 <sup>st</sup> May
4.0'	Indore in association with AICTE,		2021
	New Delhi		
ATAL Academy Online FDP on	Department of Management,	5 days	17-21 <sup>st</sup>
Academic Leadership in Higher	Central University of Rajashthan		May 2021
Education			
ATAL Academy Online FDP on	Department of Education, Aligarh	5 days	6-10 <sup>th</sup> June
Technology: Integration and	Muslim University Centre,		2021
Interaction	Malappuram		
Five Day National Level Faculty	Sreenidhi Institute of Science and	5 days	21-25 <sup>th</sup>
Development Program on	Technology, Hyderabad In		June 2021
"Investment Awareness on Stock	Association with Security Exchange		
Market"	Board of India (SEBI)- Investor		
	Protection Education Fund (IPEF)		
National Level One Week	Nishita Degree College, Nizamabad,	7 days	25 <sup>th</sup> June -
Workshop on "Investor Awareness	Teleghana		1 <sup>st</sup> July
Program on Securities Market			2021
National Level One Week Online	Nishita Degree College, Nizamabad,	5 days	28 <sup>th</sup> June –
Faculty Development Program on	Telangana National Youth Council of		3 <sup>rd</sup> July
Multi-Technologies	India and Brain O Vision Solutions		2021
	India Pvt. Ltd.		

## 7. **Major thrust area of research**: Accounting, Finance, Taxation, Management & Entrepreneurship

## 8. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Subir	Harsanglian	ICSSR,	A Study of	12.00 Lakhs	4.80 Lakhs	24 months
Kumar Sen	Halam	New Delhi	Interrelationship			
			between Surface			
			Transportation Network			
			and Pattern of			
			Commodity Flows in			
			North Eastern Region of			
			India			



#### **DEPARTMENT OF ECONOMICS**

Head of the Department : Dr. Indraneel Bhowmik, PhD

Year of Establishment : 1978

Programmes on offer : PhD/ PG/ IMD

Intake capacity : PG (including IMD) -50

IMD (after +2 stage) - 15

#### Major achievements/ Vision of the Department:

Being one of the earliest of the University the fraternity of the Department considers it a privilege to be foremost torch bearer to fulfill the University's motto of Pursuit of Excellence. We take pride in being the first department of Tripura University to be awarded the University Grants Commission's Special Assistance Programme. In 2011-12 we were awarded UGC SAP DRS-I and currently we have been placed in UGC SAP DRS-II. Apart from teaching, the faculty members of the department are actively engaged in research across diverse fields, namely, social sector, health economics, trade, financial economics, industrial economics, agricultural economics, etc.. The faculty members collaborate and associate itself with state, national and international institutions like CUTS International, RBI, ICRIER, CPR, Finance Commission, Planning Commission (now, NITI Aayog), NHM, etc and are active in enhancing the policy framework. Last but not the least, the Department attempts to ensure that the pass-out students are empowered and capable enough to contribute positively to the economic sector in particular and serve the society at large.

**Vision** – Engaging in extensive research work by developing data bank and collaborative research activities.

#### 1. Faculty Members:

tion (D.C)		on	uest/ t*	area	rs of search/ ence	Ph.D Guidance		Master Thesis Guidance			
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Ashish Nath	Ph.D.	Professor	Full time	Industrial Economics, Regional Economics	26	01	05	04	03	7	2
Paramita Saha	Ph.D.	Associate Professor	Full time	Social Sector Issues, Gender Issues	31	02	05	04	03	7	2
Jahar Debbarma	Ph.D.	Associate Professor	Full time	Agri. Eco, Rural Dev, NE India	25	02	06	03	03	1	1
Indraneel Bhowmik	Ph.D.	Associate Professor	Full time	Agri. Eco, Labour Eco, NE India	19	01	05	03	04	96	6
Subrabaran Das	Ph.D., M.Phil	Associate Professor	Full time	Public Finance, Advanced Econometrics,	17	02	06	04	03	55	4

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Salim Shah	Ph. D.	Assistant Professor	Full time	Poverty, Human Dev &Health Economics	17	01	03	06	04	05	2-
Dilip Kumar Rana	Ph. D.	Assistant Professor	Full time	Growth, Econometrics	17	-	04	04	04	-	-

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

2.1 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

an pap	рего равнопеа	iii Journais/Fro	_		Cililiai, s	- Jympos		
Main Author	Co- Authors	Title	Local/ National/ Inter- national	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020 -21)	ISSN/ ISBN/ DOI	Page No.
Jahar Debbarma	Usajen Mog	Socio-Economic Status of the Mog Tribal Community- A Case Study of South Tripura District	National	Journal of Frontline Research in Arts and Science	8	2021	2249- 9903	-
Jahar Debbarma	Usajen Mog	Factors Affecting the Tribal Land Ownership Due to Land Transfer and Alienation in Tripura	National	International Journal of Advance and Innovative Research	Vol-8, Issue- 2(III		2394- 7780	12-16
Subhrabar an Das	Solanki Debnath & Jayanta Choudhury	Determinants of Social Exclusion: A Study on the Persons with Disabilities of Tripura in North East India	National	IASSI Quarterly	Vol. 39, No. 4	2020	0970- 9061	581- 597
Indraneel Bhowmik	PK Viswanathan	Development of the Rubber Sector in North East India: A Case of Missing Innovation and Linkages	Inter- national	South Asian Survey (Sage)		2021	0971- 0973-0 https:// 10.1 0971523	788 (O) doi.org/ 177/ 3121100
Rituparna Poddar	Indraneel Bhowmik	Economic Growth Rates of North- Eastern States of India	National	Shodh Sanchar Bulletin	Vol. 10, Issue 40	2020	2229- 3620	1-6



Abhijit Sarkar	Indraneel Bhowmik	An Exploratory Study of the Agricultural Households of North-East Indian States	National	Shodh Sarita	Vol 7, Issue 28	2020	2348- 2397	191- 195
Salim Shah	Surajit Adhikari	Men and Machine in the Context of Economic Viability: A Study of the Rickshaw Pullers of Agartala, India	National	Shodh Sanchar Bulletin	Vol. 10, Issue 39 (Special issue 1)	2020	2229- 3620	95- 102
Salim Shah	Priyanka. Bhowmik	The State of Reproductive and Child Health in Rural Areas: A case Study of Tripura, India	National	Shodh Sanchar Bulletin	Vol. 10, Issue 40	2020	2229- 3620	49-53

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Name of the state	Teacher/ Student/	Number of Conference/ Seminar/ Workshop attended		
Name	Research Scholar	International	National	Institution Level
Ashish Nath	Teacher	-	01	-
Paramita Saha	Teacher	-	01	-
Jahar Debbarma	Teacher	-	03	-
Indraneel Bhowmik	Teacher	-	01	-
Subhrabaran Das	Teacher	01	02	-
Salim Shah	Teacher	01	01	-
Dilip Kumar Rana	Teacher	02	04	-
Chandra Saha Roy	Research Scholar	02		03
Banalata Saikia	Research Scholar	02	01	03
Waqar Ahmed	Research Scholar	-	04	-
Manuj Baruah	Research Scholar	-	01	01
Mashud ahmed	Research Scholar	-	02	-
Ariful Hoque	Research Scholar	-	02	-
Sukanti Roy	Research Scholar	01	03	01
PC Nunfela Darlong	Research Scholar	-	03	-
Kelvin Uchoi	Research Scholar	04	03	-
Kiran Bhowmik	Research Scholar	-	06	
Simanta Gogoi	Research Scholar	02	03	-
Kamrul Islam	Research Scholar	03	07	-
Pintu Majhi	Research Scholar	-	03	04
Surajit Debbarma	Research Scholar	03	04	-
Tajul Islam	Research Scholar	01	09	-
Pankaj Kumar Khanal	Research Scholar	-	02	-
Punam Chanda	Research Scholar	-	05	-

Prabir Ghosh	Research Scholar	=	02	-
Rajesh Kumar	Research Scholar	=	03	-
Muztaba Mashud	Research Scholar	02	05	=
Vanlalrema Kuki	Research Scholar	01	06	02
U Sa Jen Mog	Research Scholar	-	05	-
Hirupjit Hazarika	Research Scholar	01	13	-
Jadab Chandra	Research Scholar		04	
Bhattacharjee	Research Scholar	=	04	-

## 4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

		Serioor ete			
Name	Place	Date	Institutions/ Universities	Title of Invited talk	
ASHISH NATH	Online	17.3.2021	Tripura University	Trade between Bangladesh and Tripura	
PARAMITA SAHA	Online	22- 28 Aug 2020	Centre for Ethnic Studies and Research ,Guwahati and ICSSR- NERC	Health Care Challenges in the Context of Covid 19	
	Online	28 July 2020	IAWS, NE Zone hosted by Centre for Women's Studies Dibrugarh University	Status and Future Prospects of Women's Studies Centres in NEI	
INDRANEEL BHOWMIK	Online	24 September 2020	EGROW Foundation, New Delhi	Covid 19 and Economy of North East	
	Online	I 18 November		Livelihood Capital Assets of Plantation Asset Workers- Opportunities and Challenges	
	Online	15 January, 2021	Assam University, Silchar	Types of Research Design	
	Online	March, 2021	ORF, Kolkata; MEA, Gol & Consulate of Japan	Trade Development & India's Northeast: A Tripura Centric View	
	Agartala	March 2021	Ramthakur College	On Union Budget 2021	
SUBHRABARAN DAS	Online	April 12, 2021	Institute of Development Studies, Jaipur	"Panel Data Analysis" in 'Research Methodology Course" for M Phil, Ph.D and Post-Doctoral Students of Social Sciences'	
	Online	March 25, 2021.	Bengal Economic Association&Prabhu Jagatbandhu College, Howrah, West Bengal	"Optimum Size of Government Intervention for Sustainable Agricultural Farming in India" at Contemporary Challenges to the Indian Economy & 41st Annual Conference of Bengal Economic Association.	
SALIM SHAH	Online	11-15 June, 2020	Department of Commerce & IQAC, Acharya Jagadish Chandra Bose College, Kolkata	Indian Economy: COVID 19 and Marginalised People	
	Online	22 <sup>nd</sup> – 26 <sup>th</sup> September, 2020	AICTE Training and Learning (ATAL) Academy by Commerce Department, Tripura University	"Panel Data Models in Empirical Research"	



DILIP KUMAR RANA	Online	13 <sup>th</sup> to18 <sup>th</sup> August, 2020	Assam University	Data Analysis using Eviews
	Online	22 <sup>nd</sup> to 26 <sup>th</sup> September, 2020	Tripura University University	Data Analysis using R
	Online	26 <sup>th</sup> June,	Government Degree	Role of Education on Economic
		2021	College, Dharmanagar	Development

## 5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2019-20:

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Name of Scholars	Part time/ Full time	Research topic	Name of Guide	Registered/Theses submitted/ Awarded
Manisha Karmakar	Part time	Socio-economic Status of Slum Dwelling Women: A Comparative analysis between slum and non-slum areas of Tripura	Jahar Debbarma	Awarded
Masud Ahmed	Full time	Impact of climate Change on Agricultural production & cropping pattern in the valley of Assam	Paramita Saha	Registered
Manuj Baruah	Full time	Handloom based Micro-enterprises in Assam: Issues of marketing Practices & Technical Efficiency	Paramita Saha	Registered
Vanlalrema Kuki	Part time	A Comparative Study on the Plantation based Rehabilitation Models for Jhumias of Tripura  Indraneel Bhowmik		Pre-submission seminar held And approved for submission
Ariful Hoque	Full time	Impact of Product Patent on the Performance of Indian Pharmaceutical Industry	Subhrabaran Das	Registered
Sukanti Roy	Full time	Role of Women Empowerment and Economic Development: A Case Study of Tribal Married Women in Tripura	Subhrabaran Das	Registered
Kiran Bhowmik	Full time	Impact of Change in Cropping Pattern and Agricultural Productivity on Tribal Agricultural Farmers' Livelihood in Tripura	Subhrabaran Das	Registered
Kelvin Uchoi	Part time	Development and Displacement : Impact of land Acquisition on indigenous people of Tripura	Jahar Debbarma	Registered
PC Nunfela	Full	An Economic Analysis of Pineapple	Jahar	Registered
Darlong	time	production in Tripura	Debbarma	-
Waqar Ahmed	Full time	Productivity and Efficiency of manufacturing Sector – a Study of the selected states of India	Ashish Nath	Registered
Prabir Ghosh	Part- time	Competitiveness and Export Potential of Major Products from the Selected States of NE India	Ashish Nath	Pre-submission seminar held and approved for submission
Chandra Saha Roy	Full time	Horizontal Imbalances & Devolution of finances: A Study of Indian Federation with Special Focus on the Development of NER States	Salim Shah	Registered
Banalata Saikia	Full time	Fiscal Efficiency and economic development : An Inter-Regional Study for the Special Category States of India	Salim Shah	Registered

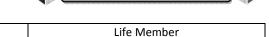


Simanta Gogoi	Full time	The Impact of Agricultural Growth on Rural Poverty in Assam	Dilip Kumar Rana	Registration under process (course work completed)
Surajit Debbarma	Full time	-	Jahar Debbarma	Registration under process (course work completed)
Tajul Islam	Part time	-	Ashish Nath	Registration under process (course work completed)
Pintu Majhi	Full time	-	Paramita Saha	Registration under process (course work completed)
Kamrul Islam	Full time	-	Ashish Nath	Registration under process (course work completed)
Punam Chanda	Full time	-	Paramita Saha	Pursuing Coursework
Hirupjit Hazarika	Full time	-	Dilip Kumar Rana	Pursuing Coursework
Mujtaba Mashud	Full time	-	Dilip Kumar Rana	Pursuing Coursework
Hangrai Kwathir Jamatia	Part time	-	Jahar Debbarma	Pursuing Coursework
Pankaj Kumar Khanal	Part time	-	Indraneel Bhowmik	Pursuing Coursework
Rajesh Kumar	Full time	-	Indraneel Bhowmik & Paramita Saha	Pursuing Coursework
Kimneithem Kipjen	Full time	-	Ashish Nath	Pursuing Coursework
Pubali Das	Full time	-	Salim Shah	Pursuing Coursework

# 6. Outreach Footprint of the Department:

# 6.1 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Ashish Nath	Indian Economic Association	Life Member
ASIIISII Natii	North Eastern Economic Association	Life Member
Paramita Saha	North Eastern Economic Association	Life Member
Parailila Salia	Indian Association of Women's Studies	Life Member
Jahar Debbarma	North Eastern Economic Association	Life Member
	Indian Society of Labour Economics	Life Member
Indraneel Bhowmik	North Eastern Economic Association	Life Member & Secretary (2 terms)
	Economic Sciences Society of Tripura	Life Member
Subhrabaran Das	The Indian Econometric Society	Life Member
Subiliabaran Das	North Eastern Economic Association	Life Member
Salim Shah	North Eastern Economic Association	Life Member
Jaiiiii Jiiaii	Economic Science Society of Tripura	Executive Member



Dilip Kumar Kana	North Eastern Economic Association	Life Member

Indian Economic Association

6.2 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:									
Name	Course attended	Location	Duration	Date					
Dilip Kumar Rana	Online One Week Faculty Development Programme on ICT ENHANCED TEACHING LEARNING AND CREATING MOOCS	TLC, Ramanujan College, University of Delhi	1week	18/08/2020 to 25/08/2020					
Dilip Kumar Rana	Online Two Week Refresher Course/ Faculty Development Programme in Economics	TLC, Ramanujan College, University of Delhi	2 weeks	29/04/2021 to 13/05/2021					
Dilip Kumar Rana	Online Training Programme on Academic Leadership	CALEM, AMU	1week	16/02/2021 to 22/02/2021					
Jahar Debbarma	Research Methodology in Economics	Indian Economic Association	15 days	31/08/2020 to 14/09/2021					

7. Major thrust area of research: Social sector, Health economics, Trade, Industrial economics, Agricultural economics

8. On-going Research Projects in 2020-21:

Dilip Kumar Rana

Principal Investigator	Co- Investig ator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and month)
Jahar Debbarma	Paramita Saha	Tribal Welfare Department, GoT	To Study on Implementation of Forest Rights Act, 2006 & Its Impact on Indigenous People of Tripura	22 Lakhs	11 Lakhs	24 months
Jahar Debbarma (For Tripura State)		NITI Aayog, New Delhi (Himalayan Region Studies Comprising of 12 States of India)	Enumeration and Valuation of the Economic Impact of Female Labour in the Hills	8 lakhs	2.5 lakhs	12 months
Dilip Kumar Rana		Ministry of Consumer Affairs, Food and Public Distribution, Department of Food and Public Distribution, Gol	Concurrent Evaluation of National Food Security Act	1.80	0.371	3 years

9. On-going Consultancy Projects in 2020-21:

				Consultancy	Consultancy Fee	Tenure
Principal	Co-	Funding	Title of the project	Consultancy Fee received	received during	(In years
Consultant	Partners	Agency	Title of the project	(Rs. in Lakhs)	the year	and
				(RS. III Lakiis)	(Rs. in Lakhs)	months)
		Lokniti-	Status of Policing in India			
Salim Shah			Report (Policing in	1.71	1.71	04 months
	CSD	CSDS	Conflict-AffectedRegions)			

10. Any other achievements: EXIM BANK SCHOLARSHIP for 8 Students of PG Final year (Rs. 10000 pa for each)



#### **DEPARTMENT OF EDUCATION**

Head of the Department (I/C) : Dr. Subhash Sarkar

Year of Establishment : 2011

Programmes on offer : MA, IMD, Ph. D. Intake capacity : 40 in MA in Education

## Major achievements/ Vision of the Department:

The Department of Education, Tripura University has started its journey on September, 2011 with two faculty members. The department welcomes students not only from Tripura but also from the rest of India. The department focuses on promotion of interdisciplinary teaching, research and extension work. The Department has committed faculties from diverse background and experiences.

### 1. Faculty Members:

			est/	of ce			n.D ance	The	ster esis ance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Tinku	M.A	Assistant	Full time	Teacher	24 years	02	03	10	12	-	-
De (Gope)	B.Ed,	Professor		Education	(Regular)						
	Ph.D	(Stage III)			4 Years						
					(Part Time)						
Dr.	M.A,	Assistant	Full time	Educational	17 years	04	02	15	12	-	-
Subhash	B.Ed,	Professor		Psychology,							
Sarkar	Ph.D	(Stage III)		Measurement							
				& Evaluation in							
				Education & Creativity.							
Abhijit	M.A,	Guest	Contract	Intelligence and		_	_	_	-	-	_
Deb	B.Ed,	Teacher		Creativity in	2 Years						
	NET	, , , , , , , , , , , , , , , , , , , ,		Education							
Goutam	M.A,	Guest	Contract	Intelligence and		-	-	-	-	-	-
Das	B.Ed,	Teacher		Creativity in	2 Years						
	SLET			Education							

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

#### 2.1 Books:

Main Author	Co- Authors	Title	Local/National/ International	Publishers	Year (2019-20)	ISBN
Dr Subhash Sarkar	Abhijit Deb	Teaching Effectiveness Scale	National	NPC	2021	978-93- 89489-81-1

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/Research	Number of Conference/ Seminar/ Workshop attended				
	Scholar	International	National	Institution Level		
Dr. Subhash Sarkar	Teacher		09			

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/ Universities	Title of Invited talk
Dr. Subhash Sarkar	Abhilashi University, Chailchowk, Mandi(H.P)	24 <sup>th</sup> July to 28 <sup>th</sup> July 2020	Abhilashi University	"Constriction of Stress and Anxiety Scale."
Dr. Subhash Sarkar	Burdwan, India	23 <sup>rd</sup> August 2020	Ayan Arnab Sikshan Sanstha	"National Education Policy2020 and its Different Aspects"
Dr. Subhash Sarkar	IASE, Kunjaban, Agartala	16 <sup>th</sup> Sep 2020	IASE	"National Education Policy 2020: An Introspection."
Dr. Subhash Sarkar	Khasiamangal, Teliamura	18 <sup>th</sup> Sep 2020	Govt. Degree College Teliamura	" New Education Policy -2020- Major Change and Highlighty"
Dr. Subhash Sarkar	Kabi Nazrul Mahavidyalaya, Government of Tripura,Sonamura, Sepahijala	18th September 2020	Kabi Nazrul Mahavidyalaya, Government of Tripura,	New National Education Policy -2020and Higher Education '
Dr. Subhash Sarkar	Rabindranath Thakur Mahavidyalaya, Bishalghar	19 <sup>th</sup> Sep 2020	Rabindranath Thakur Mahavidyalaya	" New Education Policy -2020- Prospects and Preparations"
Dr. Subhash Sarkar	IQSE, ShimuraliSachinandan College of Eduxcation Nadia.	11 <sup>th</sup> Nov 2020	IQSE, Shimurali Sachinandan College of Eduxcation	" New Education Policy -2020"
Dr. Subhash Sarkar	Department of Education, Vipra Arts, Commerce and Physical Education College, Raipur	17 <sup>th</sup> Jun 2021	Vipra Arts, Commerce and Physical Education College, Raipur	"Trends and Challenges of Online Education in Present Scenario"
Dr. Subhash Sarkar	Khejuri College, West Bengal	31 <sup>st</sup> July 2021	Khejuri College, West Bengal	"Paradigm Shift in Education and Its Impact on Students Mental Health During Pandemic"

# 5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of Scholars	Par time/ Full time	Research topic	Name of Guide	Registered/ Theses submitted/ Awarded
Jantu Das	Full Time (JRF)	Not yet finalized	Dr. Subhash Sarkar	Admitted
Pinku Kundu	Part time	Self – Efficacy, Sentiments, Attitudes and Concerns of Elementary Teachers in the Light of Inclusive Education for the Student with Special Needs: A Study with Reference to West Tripura.	Dr. Subhash Sarkar	Awarded
Deepti Yadev	Part time	A Study of Constructive Learning Environment, work Motivation, ICT Teaching Attitude and Participation in School Activities of Students- Teachers Under Two Years B.Ed Programme	Dr. Subhash Sarkar	Awarded
Priti Kumari	Full time	Self-Efficacy and Social Intelligence as  Determinant of Perceived Employability  Among Students of Professional Courses.	Dr.Rajendra Prasad (Supervisor) Dr. Subhash Sarkar (Co- Supervisor)	Awarded
Baishakhi Bhattacharjee	Part time	A Study of Emotional Intelligence, Teaching Competency and Attitude Towards Continuous and Comprehensive Evaluation of Prospective Teachers Trained Through Formal and Non- Formal Mode of Teacher Training Programme in Reference to Tripura.	Dr. Rajendra Prasad (Supervisor) Dr. Subhash Sarkar ( Co- Supervisor)	Awarded
Sabita Das	Part time	Study of Professional Ethics, Teacher Effectiveness and Professional Stress of Secondary School Teachers in Relation to the Academic Achievement of Secondary Schools.	Dr. Tinku De (Gope)	Awarded
Binapani Saha	Part time	An Investigation into the Effect of Faculty Development Programme on Teachers Professional Stress and Teachers Effectiveness at the Level of Higher Education in Tripura.	Dr. Tinku De (Gope)	Awarded
Mousumi Roy	Part time	Professional Stress Management Through Yoga Practice: A Study on Primary School Teachers with Some Background Variable.	Dr. Tinku De (Gope)	Thesis Submitted

## 6. Outreach Footprint of the Department:

# 6.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/ Workshops/ Symposia Lecture/ Talk	International/ National	No. of Participants
1.	29 <sup>th</sup> August to 02 <sup>nd</sup> Sep 2020	5 day	"Research Methods in Social Science: Reflection About Critical Aspect" National Psychological Corporation in Academic Collaboration Department of Education	Orientation Programme	National	170

## 6.2 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership		
Dr. Subhash Sarkar	Council For Educational Administration	Life Member and Chairman of		
Di. Subilasii Saikai	and Management ( CEAM)	Tripura Chapter		

## 6.3 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date	
Dr. Subhash	Online Training Programme on	Aligarh Muslim	7 days	16 <sup>th</sup> Feb to 22 <sup>nd</sup>	
Sarkar	Academic Leadership	University	7 days	Feb 2021	
Dr. Subhash	Pedagogical Practices of New India	Tripura, Manipur and	5 days	7 <sup>th</sup> to 11 <sup>th</sup> Oct	
Sarkar	Under National Education Policy 2020	Assam University	3 uays	2020	
Dr. Subhash	Applying SPSS for educational and	ational and		17 <sup>th</sup> July to 21 <sup>st</sup>	
Sarkar	Psychometric Data Analysis	NPC, Agra(UP)	5 days	July 2020	

Major thrust area of research: Teacher Education, Psychological foundation of Education, Measurement & Evaluation in Education, Psychology of Intelligence & Creativity.



#### **DEPARTMENT OF ENGLISH**

Head of the Department : Prof Ashes Gupta

Year of Establishment : 1990

Programmes on offer : MA, Ph.D, IMD Intake capacity : MA: 110, IMD: 30

#### Major achievements/ Vision of the Department:

The Department of English, Tripura University, with its full faculty strength of 7, has stood firmly beside our students and researchers amidst the onslaught of the Covid 19 pandemic during the last academic session. All Faculty Members dedicated themselves with full commitment to the imparting of Online lessons on Google Meet, and have regularly uploaded their classes and lectures on Google Classroom and the Online Learning Management System Platform of Tripura University. The department proposes to live up to all the academic expectations of students and researches through the online mode as long as the prevailing situation so demandswith updated technological support.

For those who aspire to pursue higher academics and research in the area of Literature and Culture Studies, the Department of English takes special care in strengthening the reading base among students of literature by encouraging original thinking and at the same time sharpening their critical and creative abilities.. Each year, a decent number of students clear the UGC NET/SET Examinations and join the Ph.D Programme under the supervision of efficient and qualified departmental Faculty Members. Moreover the departmental alumni has consistently proven themselves by getting selected in the State Civil Services Examinations. As part of its responsibility towards the socio-cultural, historical, literary and ethnic heritage of Tripura, the department has always encouraged research in Tripura's orature and culture. In its roadmap for the future the department aspires to prepare students for all India Competitive Examinations and establish an Industry-Academic Interface to tackle changing market demands, at the same time nurturing in them original and critical perspectives on art, culture, language & literature.

#### 1. Faculty Members:

,			Guest/	sa of ssearch/		Ph Guid		Mas The Guida	sis		
Name	Qualification (MPhil/Ph.D)	Designation	Full time/ Gu Contract*	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Prof Shyamal Das	M.Phil PhD	Professor	Full Time	Linguistics, Phonology, Morphology, ELT, and Second Language Teaching	33+	2	8	-	-	-	-
Prof Ashes Gupta	PhD	Professor	Full Time	Indian English Writing, Popular Literature and Culture, Literary Theory and Criticism, North Eastern Literature and Culture	24 years	04	06	-	-	03	02
Dr Partha Sarathi Gupta	PhD	Assistant Professor Stage III	Full Time	Drama Studies	18	Nil	4	16	5	1	-



Dr Somdev Banik	PhD	Assistant Professor Stage III	Full Time	Postcolonial Studies, English Studies in India	17	1	4	-	-	-	-
Dr Chaitali Gorai	PHD	Assistant professor	Full time	New literatures, indian fiction, folk culture, literary theory		Nil	02	25	05	NA	NA
Dr Ksh Premchandra Singh	Ph. D	Assistant professor	Full time	Modernist novels, writings from the northeast, folk and cultural studies	10 YRS	Nil	4	46	14	NA	NA
Ms Debarati Das	M.Phil	Assistant professor	Full time	Disability studies, modernist poetry, indian literature	5 YRS	Nil	Nil	23	14	NA	NA

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

## 2.1 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ International	Publishers	Year (2020- 21)	ISBN	Page No.
GORAI CHAITALI		'Vidyasagar's the Barnaparchay and the Written Characters of Bengali' Pp. 77-85	Nirmal Das & Rupasree Debnath	Iswar chandra Vidyasagar: Duisho Bacharer Niswanga Pathik	Local	Tripura Bani Prakashani	2020	ISBN 978- 81- 9404 08- 7-3	77- 85

# 2.2 Full papers published in journals/proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ Inter- national	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020 -21)	ISSN/ ISBN/ DOI	Page No.
Prof Ashes Gupta	NA	Of fear and fantasy, fact and fiction: Interrogating canonical Indian literary historiography towards comprehending partition of Bengal in post-Independence Indian (English) Fictional Space.	Inter- national	International (Indexed by Web of Science, Scopus, DOAJ, ERIHPLUS& UGC Carelist- II)P:1- 06 Full Text: http://rupkatha.co m/V12/n4/v12n413. pdf  (Clarivate Web of Science Researcher id:AAH-9781-2021)	Volume 12	2020	ISSN 0975- 2935) DOI: https: //dx.d oi.org /10.2	-

4		
	Annual Repor	t 2020-20
		Duisland

	NA	Drishwa, Drishwamanata, Drishantor: Loknatyer Natokiyota ebong Tripurar Udbastu Bangali Chetanar Prekkhite ekti Tatwik Bisleshon (in Bengali)	National	Tripura Theatre UGC Care Listed	Vol. 15 (I), 43- 48	2020	,	-
	NA	Masquerading Gelotophobia through Self- evasive Laughter: Exploring the Link Between the Ridiculous Bangal in Select Popular Bengali Cinema of the 60s and his Ghoti Bhadralok"	Inter- national	Dibrugarh University Journal of English Studies International UGC Care Listed (https://www.dujes. co.in/p/masqueradi nggelotophobia- through-self.html)	29	June 2021	ISSN 2581 7833 (Onlin e) ISSN 0975 -5659 (Print )	-
GORAI, CHAITALI		'The Isolated Navigator: Salman Rushdie's Manifestation of Self in Haroun and the Sea of Stories'	Inter- national	The Criterion: An International Journal in English	12.1	2021	0976- 8165	74- 82
GORAI, CHAITALI		'A Dark Beam through the Prismatic Eye: The Black Community in George Lamming's In the Castle of My Skin'	National	Journal of The Odisha Association for English Studies	10.1	2020	2249- 6726	98- 108
PARTHA SARATHI GUPTA		'The Monster in Confinement: The Intersex in Mahesh Dattani's Seven Steps Around the Fire'	National	Negotiations: Journal of the Department of English, University of North Bengal, West Bengal	3	2020	2231- 1378	26- 34
PROF		Feature Checking, Case and Word Order: A Minimalist Study of the Bangla Case System	Inter- national	International Journal of Applied Research	Vol.7 Issue 3	2021	ISSN 2394- 5869 (onlin e)	230- 239
SHYAMAL DAS		Morphophonemics of Prosodic Reduction in Tripura Bangla	Inter- national	International Journal of Applied Research	Vol.7 Issue 3	2021	ISSN 2394- 5869 (online)	446- 457
		Aspiration: A Dying Phenomenon in Bangla	Inter- national	International Journal of Applied Research	Vol.7 Issue 3	2021	ISSN 2394- 5869 (online)	271- 274



Metrical Pattern in Noakhali Bangla: An OT Account	Inter- national	International Journal of Applied Research	Vol.7 Issue 3	2021	ISSN 2394- 5869 (online)	428- 438
Word-minimality vis-à-vis morphophonemics of genitives in NKB	Inter- national	International Journal of Applied Research	Vol.7 Issue 4	2021	ISSN 2394- 5869 (online)	73- 82
Variable realization of -ıa infinitival in Bangla: A study in morphophonemics	Inter- national	International Journal of All Research Education and Scientific Methods	Vol.9 Issue 3	2021	ISSN 2455- 6211	65- 70
Role of Prosody in the Variable Realization of - ıtelnfinitival in Bangla	Inter- national	International Journal of Creative Research Thoughts	Vol.9 Issue 2	2021	ISSN 2320- 2882	2744 - 2750
An Analysis of Whquestions in English and Kokborok in the Framework of LGB	Inter- national	International Journal of All Research Education and Scientific Methods	Vol.9 Issue 2	2021	ISSN 2455- 6211	44- 52
A Comparative Study of the Morphophonemics of -ile Suffixation in Three Dialects of Bangla	Inter- national	International Journal of All Research Education and Scientific Methods	Vol. 9, Issues 3,	2021	ISSN 2455- 6211	1311 - 1316

# 3. Visiting Faculty from Tripura University to other Institutions/Universities:

Nama	From	То	Institutions/	Name of the Department / School
Name	(DD/MM/YY)	(DD/MM/YY)	Universities	(where invited as visiting faculty)
DR PARTHA SARATHI GUPTA	25/2/2021	31/3/2021	SAMBALPUR UNIVERSITY	DEPT OF ENGLISH (ONLINE MODE)

# 4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/ Universities	Title of Invited talk
DR PARTHA SARATHI GUPTA	Dept of English, Sambalpur University-Online Lecture Series	6/3/2021	Sambalpur University, Odisha	Resisting the Ecology of Bad Ideas: An Ecosophical Approach to Literature
DR PARTHA SARATHI GUPTA	Institution's Innovation Council, Tripura University	19/01/2021	Tripura University	The Art of Research Writing – Part I
PROF ASHES GUPTA	Institution's Innovation Council, Tripura University	21/01/2021	Tripura University	The Art of Research Writing – Part II
PROF ASHES GUPTA	PRCI, Tripura Chapter and Dept of Journalism and Mass Communication, Tripura University	23/07/2021	Tripura University	Invited as Guest-of-Honour in the National Webinar on "PR in Northeast: Yesterday, Today and Tomorrow



PROF ASHES GUPTA	Tripura University	12 <sup>th</sup> June 2021	Tripura University	Webinar on New Education Policy Title of Talk: "New Education Policy 2020: Summing Up of Proceedings of Day 2"
PROF SHYAMAL DAS	Maharaja Bir Bikram University,Department of English, Agartala	24 <sup>th</sup> July 2020	Maharaja Bir Bikram University	challenges and feasibility of online teaching in the international webinar on "Pandemic Pedagogy: Issues and Challenges"
PROF SHYAMAL DAS	(five lectures ONLINE) Dept. of Humanities and Social Sciences BITS PILANI-Pilani Campus, Rajasthan-333031 (INDIA)	12 February to 26 February, 2021 (18 Feb 2021, 19 Feb 2021, 23 Feb 2021, 25 Feb 2021, and 26 Feb 2021)	BITS PILANI- Pilani Campus, Rajasthan- 333031 (INDIA)	various aspects of linguistics

# 5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of Scholars	Part time/ Full time	Research topic	Name of Guide	Registered/ Theses submitted/ Awarded
Emily Sharma	Part Time	Interrogating Feminism in the Indian Context: Issues of Theory and Praxis.	Prof. Ashes Gupta	Awarded
Shukla Singha	Part Time	Analyzing and situating English Poetry of the North-East towards the formulation of an alternative canon: Problems and issues with reference to select poets and texts	Prof. Ashes Gupta	Awarded
Subhra Roy	Part Time	Reconfiguring the self-other dichotomy: An interrogation of the issues of Naga nation and identity in the works of EasterineKireIralu.	Prof. Ashes Gupta	Awarded
Benjamina Darlong	Part Time	The Darlong Orature and Tradition: A Study of Darlong Folktales and Folksongs.	Prof. Ashes Gupta	Awarded
Gitanjali Roy	Part Time	Text-performer-performance triangulation: A study on digital life in select texts of digital literature	Prof. Ashes Gupta	Submitted
Ishani Roy Barman	Full Time	Imagining and Representing the City: An Analytic Study of Select Graphic Novels of Sarnath Banerjee	Prof. Ashes Gupta	Registered
Anand Dayal Jamatia	Full Time	Mysticism in Jamatia Orature with Special Reference to Select Jamatia Folktales and Folklore	Prof. Ashes Gupta	Registered
Merelin Darlong	Part Time	Darlong Identity and Culture (broad)	Prof. Ashes Gupta	Completed course work
Riddhi Dipan Das Gupta	Full Time	An Analytical Study of the Influence of Sree Anukulchandra Chakravarty in Select Texts of Literature, Culture and Life Practices	Prof. Ashes Gupta	Completed course work

Samarpita Dey	Part Time	Analysis of the issues of compatibility between the select texts of Children's Literature by Shirshendu Mukhopadhyay and Western Children's Literature theories.	Prof. Ashes Gupta	Completed course work
Tshiring Bhutia	Part Time	Symbolism in Buddhist Tantrik texts (Broad)	Prof. Ashes Gupta	Started course work
Ms Sheela Debbarma	Partime	"A Comparative Phonology of Kokborok Dialects: An Analytical Study of Literary Kokborok, Reang and Jamatia Dialects"	Dr Chaitali Gorai	Submitted
Ms Priyadarsini Ganguly	Full time	"Navigating 'Real' and 'Unreal' Spaces in Haruki Murakami's Fiction: A Study of Select Novels"	Dr Chaitali Gorai	Registered
Ms indrani Bandyopadhyay	Part time	"Bengali Women Travelers: An Analysis of Select Travel Narratives (1885-1950)"	Dr Chaitali Gorai	Registered
Dr. Pradip Molsom	-	A Comparative Study of the Morphological Processes in Molsom and English with Pedagogical Implications	Prof Shyamal Das	Awarded on 25 <sup>th</sup> June 2021

# 6. Outreach Footprint of the Department:

## 6.1 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
DR CHAITALI GORAI	Refresher Course on "Making Teaching Effective"	Tripura University	Two weeks	15.03.2021- 28.03.2021
DR CHAITALI GORAI	"Phonetics and Phonology: A Broad Overview"	NPTEL (online) Course offered by IIT, Guwahati	Eight weeks	January to March 2021
DEBARATI DAS	3 <sup>rd</sup> Faculty Induction Program	NEHU, Shillong (Online)	30 days	13.01.2021 to 11.02.2021

# 7. Students qualified in various public examinations in the Academic year2020-21 from the Department:

Name	Sex (M/F)	Category (GEN/ST/SC/ OBC/EWS/ MIN)	PH (Yes /No)	Name of the Organization/Institution	Name of the Examination (NET/ SLET/ GATE/ CAT/ SSC/ UPSC/ TPSC /Others/ SWT*/ SWO**
Rebecca Debbarma	F	ST	No	Dept of English, TU	NET, Roll TA01510000048
Manishankar Das	М	SC	No	Dept of English, TU	NET, Roll: TA0151000022
Suraj Das	М	SC	No	Dept of English, TU	NET, Roll: AM0350900034

<sup>\*</sup>Students Opting for Higher Studies With Examination; \*\*Students Opting for Higher Studies Without Examination.

### **DEPARTMENT OF FINE ARTS**

Head of the Department : Mr. Mukulendu Pathak, Assistant Professor (Till 25th Sept., 2020)

Dr. Rajesh Bhowmik (25th Sept. 2020 and onward)

Year of Establishment : 2009

Programmes on offer : Ph.D., M.F.A. in Drawing & Painting and Modelling & Sculpture Intake capacity : 26, MFA(Painting) - 16, MFA(Sculpture) - 10, PhD - on availability

### Major achievements/ Vision of the Department:

The Department offers Masters Degree (M.F.A.) in Drawing & Painting and Modelling & Sculpture since 2009 and the Ph.D. program is started in the 2014-15 session. There are 06(six) nos. Research Scholars are registered in the Doctoral Research program and the main focus of the research program is mostly on the issues of local and glocal art and crafts and the searching for the identity of the rare or dying tribal, folk and overall traditional practices in this region. The Department has organized National and International level workshops and exhibitions with the collaboration of Lalit Kala Akademi (New Delhi), Indira Gandhi Rastriya Manav Sangrahalaya (Bhopal), Rashtriya Lalit Kala Lendra (Kolkata), etc. Due to the project based program, the Department is frequently hiring Project Scholars as per specializations of the particular area and there is a scope to utilize their expertise in the further research program as the Faculty Members having the projects from the different national level funding agencies:

#### 1. Faculty Members: 04

	no (O		est/	еа	ea ; of search/		nce	Master Thesis			
<u>ə</u>	atio Ph. [	atio	Gué act*	n ar	ears ese rien			Guidance			
Name	Qualification (MPhil/Ph.D)	Designa	Designation Fulltime/Guest/ Contract* Research area	Research	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
				ARTS AND	TEACHING:						
	M.F.A.			CRAFTS	20 years 5	01					
Dr. RAJESH	NET, &	ASSOCIATE	Full	AND	months	(One)	05	_	01	_	_
BHOWMIK	Ph.D.	PROFESSOR	time	DESIGN &	RESEARCH:	Submitted			01		
	111.0.			MOTIFS IN	17 years &	for award					
				TEXTILES	2 months						
Mr. MUKULENDU	MFA, NET	Assistant Professor	Full time	-	11	-	-	-	-	-	_
PATHAK	INLI	Fiolessoi	time								
Mr. SUBRATA	M.F.A.,	ASSISTANT	Full	Indian Art	11						
DEY	NET	PROFESSOR	time	iliuiali Alt	11						
Mr. SISIR THAPA	MFA, NET	Assistant Professor	Full time	Sculpture, Subjective Landscape	4years 6 months	-	-	03	-	-	_

<sup>\*</sup>Must be mentioned

- 2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:
- 2.1 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main	Co-		Local/	Name of the		Year	ISSN/	Dago
Author	Authors	Title	National/	Journal/Proceedings/	Volume	(2020-	ISBN	Page No.
Author	Authors		International	Magazine		21)	/DOI	NO.
A.	Dr.	The	International	International Journal	Vol - 08.		ISSN:	3270
Hemanta	Rajesh	Contemporary		of Creative Research	Issue -	August,	2320	3270
	Bhowmik	Art and Artists		Thoughts (IJCRT)		2020	-	3273
Singh		in Manipur		iniougints (IJCKT)	08,		2882	32/3

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conference/ Seminar/ Workshop attended				
Ivaille	Research Scholar	International	National	Institution Level		
Dr. Rajesh Bhowmik	Teacher	01	-	-		
Do	Teacher	-	01	-		
Do	Teacher	-	01	-		
Do	Teacher	-	01	-		
Do	Teacher	-	-	01		
Sri Sisir Thapa	Teacher	01	-	-		

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Dr. Rajesh	Through MS TEAM platform	June 5, 2021	Techno International	Creative Composition
Bhowmik		at 2.00 p.m.	Newtown, Kolkata	in Arts

5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of	Par time/ Full time	Research topic	Name of Guide	Registered/Theses
Scholars	Tar time, Tan time	Research topic	rame or Galac	submitted/ Awarded
Mr. Bikramjit	Full time	Tradition of Manuscript	Dr. Rajesh	Thesis submitted
Sarkar		Paintings in Assam	Bhowmik	mesis submitted

6. Outreach Footprint of the Department:

The pass out students and Research Scholars are working in the field of Fine Arts with a good reputations and established themselves in their own field in different parts of India. Research Scholars and few students are working as an Assistant Professor/ Part time contract Teacher/ Guest Faculty in the various colleges of Tripura, Manipur, Assam, etc.

## 6.1 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Sri Subrata Dey	FDP: 3rd one week National Workshop of Emerging tools and technology	TRIPURA UNIVERSITY	05 DAYS	15 <sup>TH</sup> TO 19 <sup>TH</sup> DECEMBER
Do	FDP: Pedagogical Practice of new India under New Education Policy	Tripura university, Manipur University and Assam University	05 days	7th to 11th October
Do	FDP : Recent Trends in Electronics and Information Technology	Tripura University	05 Days	9th to 13th November 2020

## 7. Major thrust area of research: Art and Artists, Arts and Crafts, Artisans and Craftsmen

# 8. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B)
	reaching 200 (rt)	(Build up with Project Funding)
3	3 (three) nos. Studio for Drawing & Painting	NA
3	3 (three) nos. Studio for Modelling & Sculpture	NA
1	1(one) room for Theory	NA
1	1(one) room for Research Scholars	NA

# 9. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Dr. Rajesh Bhowmik	NIL	Ministry of Textiles, New Delhi	Existence of Potteries in North- East India	14,98,000/-	749,000/-	01 (one year)



#### **DEPARTMENT OF HINDI**

Head of the Department/In-charge : Dr. Kali Charan Jha Year of Establishment : 31st March, 2006 Programmes on offer : M.A., PGDT(H), Ph.D.

Intake capacity : M.A. – 25, PGDT(H) – 30, Ph.D.- As per availability of seats

### Major achievements/ Vision of the Department:

The Department of Hindi aims to provide teaching and research facilities in Hindi language & Literature, keeping in view the changing social norms, communication patterns, different social roles of language in our society and fast changing social values in our time. While drawing up the PG, PGDT (H) & Ph.D. Course work Syllabus, sufficient care has been taken to cater to the above needs. It has been kept flexible enough to incorporate various requirements of the students in the context of contemporary society. Special attention is also given to the regional/North Eastern and comprehensive studies of language, literature and culture. In brief the Department of Hindi, TU has following future plans to strengthen itself:

- To build the department into a Highest Centre of research and teaching in Hindi.
- To attract students from different parts of the Country.
- To provide avenues for capacity building to increase employability of the students.
- To encourage scholars for contemporary fields for research.
   To promote students for Translation related works.

#### 1. Faculty Members:

	<u> </u>	_	iuest/ rea rea Research/ ence		Ph.D Guidance		Master Thesis Guidance				
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/ Job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Prof. Vinod Kumar Mishra	MA/MPhil/P h.D	Professor	Full Time	Bhakti Sahitya	On Lien	-	-	-	1	1	-
Dr. Milan Rani Jamatia	M.A /Ph.D/NET/ JRF	Assistant Professor	Full Time	Lok Sahitya	17 Years & 06 Months	1	05	1	03	-	-
Dr. Kali Charan Jha	M.A/M.Phil/ Ph.D/ NET/JRF	Assistant Professor	Full Time	Modern Hindi Poetry & Hindi Novel	13 Years & 02 Months	1	05	1	03	1	-
Dr. Jai Kaushal	M.A/M.Phil/ Ph.D	Assistant Professor	Full Time	Katha Sahitya, LokSahitya	On Lien	-	03	ı	ı	ı	-



Dr. Manoj Kumar Maurya	M.A/M.Phil/ Ph.D/ NET	Assistant Professor	Full Time	Hindi Katha Sahitya, Hindi Alochana	04 Years & 08 Months	1	04	1	03	-	-	
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<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

## 2.1 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ International	Publishers	Year (2020- 21)	ISBN	Page No.
Dr. Kali Charan Jha	NA	Hindi Sufi Kavya Aur Dr. Knhaiya Singh	Prof. Nand Kishor Pandey	Kali Mitti Par Pare ki Rekha	National	Lokbharti Prakashan	2020	978 938 974 2787	424- 430

2.2 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/National/ International	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020- 21)	ISSN/ ISBN/ DOI	Page No.
Dr. Manoj Kumar Maurya	NA	Upsanhar: Manushy Hone Ki Trasadi	National	Soch Vichar	10	2021	2319- 4375	81- 82
Dr. Manoj Kumar Maurya	NA	Godan Aur Marxvadi Alochana	Local	Ganv ke Log	20-23	2020	NA	89- 91
Dr. Manoj Kumar Maurya	NA	Chauri Chaura ka Vanchit Samaj	Local	Ganv ke Log	20-23	2021	NA	138- 142

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/Research	Number of Conference/	Seminar/ W	orkshop attended
Name	Scholar	International	National	Institution Level
Dr. Kali Charan Jha	Teacher	01	06	02
Dr. Manoj Kumar Maurya	Teacher	-	-	01
Mrs. Aarti Sharma	Research Scholar	07	07	-
Mrs. Aarti Kumari	Research Scholar	9	22	-
Sri Om Prakash Jha	Research Scholar	-	01	-
Sri Vivekanand	Research Scholar	01	06	-
Mrs. Rinki Kumari	Research Scholar	04	06	-

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/ Universities	Title of Invited talk
Dr. Kali Charan Jha	Agartala (Online)	3 <sup>rd</sup> July 2020	Women's College	Sahityetihas Evam Chhayawad
Dr. Kali Charan Jha	Patna (Online)	3 <sup>rd</sup> January	Antarrashtriya	Rajbhasha Hindi Evam
Dr. Kali Cilarati Jila	ratiia (Oillille)	2021	Hindi Parishad	Manipuri Sanskriti Aur Bhasha
Dr. Kali Charan Jha	Monarchak,	16 <sup>th</sup> March	NEEPCL, Tripura	Rajbhasha Hindi
Dr. Kali Cilarati Jila	Tripura	2021	NEEPCL, IIIpura	Rajbilasila filiui
Dr. Kali Charan Jha	Agartala	24 <sup>th</sup> March	UCO Bank, Zonal	Purvottar Bharat Men Hindi Ki
Dr. Kali Cilarati Jila	Agaitala	2021	Office	Dasha Aur Disha
Dr. Manoj Kumar Maurya	Kolkata	19 <sup>th</sup> March	MGAHV, Kolkata	Hindi Upanyas Ki Vikas Yatra
Dr. Manoj Kumar Maurya	KUIKata	2021	Cantare	Hillul Opaliyas Ki Vikas fatia
Dr. Manai Kumar Maurua	Kolkata	22 <sup>nd</sup> March	MGAHV, Kolkata	Hindi Unanyas aur Cadan
Dr. Manoj Kumar Maurya	NUIKala	2021	Cantare	Hindi Upanyas aur Godan
Dr. Manai Kumar Maurua	Kolkata	23 <sup>rd</sup> March	MGAHV, Kolkata	Maila Aanchal ka Samsayik
Dr. Manoj Kumar Maurya	NUIKala	2021	Cantare	Sandarbh

- 5. Outreach Footprint of the Department:
- 5.1 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Dr. Kali Charan Jha	FDP	Ramanuj College under the aegis of Ministry of Education PMMMNMTT, Delhi	Two Week	August 14- August 28, 2020

6. Major thrust area of research: Lok Sahitya, Samakalin Sahitya, Adivasi Vimarsh, Katha Sahitya, Dalit Sahitya, Modern Hindi Poetry, Hindi Novel, Cinema & Translation

#### **DEPARTMENT OF HISTORY**

Head of the Department : Prof. Sukhendu Debbarma

Year of Establishment : 1977

Programmes on offer : IMD, MA, Ph.D.

Intake capacity : IMD-30, MA-80, Ph.D.- as per vacancy

#### Major achievements/ Vision of the Department:

The Post-graduate classes in History first started in March 1976 in the P. G. Wing of MBB College, Agartala. The Calcutta University Post Graduate Study Centre (CUPG Centre) came into being in 1977, with a single student in the Department of History. In 1987 CUPG centre was converted into Tripura University. At first, the Department of History was known as the Department of Modern History under Calcutta University. Later on, with the establishment of Tripura University on 2nd October, 1987, the Department was renamed as the Department of History with its own syllabus. In 1997, the Department revised its syllabus with Part-I & Part-II system. In 2004, the syllabus was further revised as per UGC guidelines with unit system. And after conversion to Central University, a semester system was introduced in the Department from the academic session 2008. The Department endeavours to organize Seminars / Workshops / Popular lectures etc. The faculty members and research scholars of the department are engaged in various research activities. Students who are particularly interested in teaching and research are encouraged to prepare for UGC- NET exam as well as SET and to pursue Ph.D programme. The department is planning to apply for the UGC SAP as part of the major research thrust in history to promote research in the department. At present the Department has 6 (six) regular Faculty members and 02 (two) nonteaching staff.

1. Faculty Members:

	Contract			· Teaching/ experience	Ph.D Guidance		The	ster esis ance			
Name	Qualification (MPhil/Ph.D)	Designation	Full time/ Guest/ Contract	Research area	No. of years of Teaching/ Research/job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Professor Satyadeo Poddar	PH.D	Professor	Full time (on lien)	Gandhi, North East India	30	-	-	-	-	-	-
Professor Sukhendu Debbarma	Ph.D	Professor	Full time	Modern Indian History/ North East India	26	-	04	-	-	-	-
Dr. Monisankar Misra	Ph.D	Assistant Professor	Full time	Modern India, History of natural calamities, Tripura	17	1	3	-	-	-	-
Dr. Lincoln Reang	Ph.D	Assistant Professor	Full Time	History of Modern India & Tripura	14	-	03	18	18	-	-

Dr. Roshani Rai	Ph.D	Assistant Professor	Full time	Modern Indian History/ Women Studies	10	-	01	-	-	-	-
Dr. Bidisha Dhar	Ph.D	Assistant Professor	Full time	Modern Indian History/ Labour History/ Gender History/	5	-	-	-	-	-	-

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

## 2.1 Books:

Main Author	Co- Authors	Title	Local/ National/ International	Publishers	Year (2020-21)	ISBN
Dr. Lincoln Reang	-	History of the Reang (Bru)	National	Eastern Book House (EBH), Guwahati	2021	978-93- 90434- 98-5
Dr. Lincoln Reang	-	Arag: A Social Drinks prevalent among the Reang (Bru) Community	Local	Niharika, Agartala	2021	-
Dr. Lincoln Reang	-	Kau Bru: Phamungma- Kau'Rkieh	Local	Niharika, Agartala	2021	-

# 2.2 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020- 21)	ISSN/ ISBN/ DOI	Page No.
Roshani Rai	-	Jawaharlal Nehru's Attitude towards Science and Technology	National	Journal of Kolkata Society for Asian Studies	Vol.6	Dec, 2020	2454- 5694	167- 177
Dr. Lincoln Reang	-	Sustainable Development of Reang Culture in Tripura: Role of Bru Socio- Cultural Organization (BSCO)	National	6 <sup>th</sup> International Conference on Research Development in Arts, Social Sciences and Humanities (ASH- 2020)	-	2020	978-81- 944855- 0-6	72- 81
Dr. Bidisha Dhar	-	Book Review on Brijesh K Gupta's "Sirajuddaullah and the East India Company"	National	The Book Review	Vol XLV, No.4	4 <sup>th</sup> April	0970- 4174	5-6
Dr. Bidisha Dhar	-	Book Review on Nabaparna Ghosh's "A Hygienic City Nation: Space, Community and Everyday Life in Colonial Calcutta"	National	The Book Review	Vol. XLV, No.6	6 <sup>th</sup> June	0970- 4174	16- 17

4

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conference	/ Seminar/ Wo	orkshop attended
Name	Research Scholar	International	National	Institution Level
Dr. Monisankar Misra	Teacher	01	-	-
Dr. Lincoln Reang	Teacher	-	03	01
Dr. Roshani Rai	Teacher	-	-	05
Susmita Banerjee	Research Scholar	-	-	02
Jonomti Reang	Research Scholar	01	02	05

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/ Universities	Title of Invited talk
Professor Sukhendu Debbarma	Two Week Refresher Course on "Making Teaching Effective" under the scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), Ministry of Human Resource Development, Department of Higher Education, Government of India, Tripura University	24 <sup>th</sup> March, 2021	Faculty Development Centre (FDC) Tripura University	Making Teaching Effective in Colleges and Universites
Dr. Lincoln Reang	Department of Social Science, Holy Cross College, Agartala	12 <sup>th</sup> -13 <sup>th</sup> March' 2021	Department of Social Science, Holy Cross College, Agartala	Indigenous Knowledge System and Practices of Tribal Communities of Tripura
	Women's College, Agartala (online)	1 <sup>st</sup> July,2020	Women's College, Agartala	Studying Disaster in History
	MBB University, Agartala (online)	09-10 <sup>th</sup> July, 2020	MBB University, Agartala	Maharaja Bir Chandra Manikya: An Assessment in Historiography
	Holy Cross College, Agartala (online)	26 <sup>th</sup> August, 2020	Holy Cross College, Agartala	The Quiet Historian: Prof. Dipak Kumar Chaudhuri and his world of History
Dr. Monisankar Misra	Faculty Development Programme, Institute of Distance Education & Department of History, RGU, Arunachal Pradesh(online)	02 <sup>nd</sup> -06 <sup>th</sup> November 2020	Rajiv Gandhi University, Arunachal Pradesh	Floods and Nationalist Politics in British Assam
	Reserve Bank of India, Agartala	15 <sup>th</sup> January, 2021	Reserve Bank of India, Agartala	Social and Political Changes in Princely Tripura: From Birchandra Manikya to Bir Bikram Kishore Manikya
	UGC Human Resource Development Centre, North Bengal University (online)	15 <sup>th</sup> March, 2021	UGC Human Resource Development Centre, North Bengal University	History of Flood

# 5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of Scholars	Par time/ Full time	Research topic	Name of Guide	Registered/ Theses submitted/ Awarded
Deepayan Chakraborty	Part time	State Formation and Evolution of Polity:Kingdom of Tripura (c.15 <sup>th</sup> to 18 <sup>th</sup> centuries)	Dr. Monisankar Misra	awarded
Astamika Sinha	Full time	Life and Times of a Nationalist: Bipin Chandra Pal and Indian national Movement (1886-1932)	Dr. Monisankar Misra	submitted
Susmita Banerjee	Full Time	History of Tribal Women of Tripura	Dr. Lincoln Reang	registered

## 6. Outreach Footprint of the Department:

# 6.1 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Prof. Satyadeo Poddar	North East India History Association	Life Member
Prof. Sukhendu Debbarma*	North East India History Association	Life Member
Prof. Sukhendu Debbarma*	Mizo History Association, Aizawl	Life Member
Dr. Monisankar Misra	North East India History Association	Life Member
Dr. Lincoln Reang	North East India History Association	Life Member

<sup>\*</sup>Member, Advisory Committee, Indira Gandhi National Centre for the Arts (IGNCA) – North East Regional Centre (NERC), Guwahati

## 6.2 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Dr. Roshani Rai	Two Week Online Faculty Development Programme on "Learning Advanced E- tools for MOOCS Development & Research"	Teaching Learning Centre Ramanujan College and Motilal Nehru College (E) (University of Delhi) under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ministry of Human Resource Development	2 weeks	1 <sup>st</sup> September- 14 <sup>th</sup> September, 2020
Dr. Roshani Rai	One Week Online Faculty Development Programme on "Advanced Pedagogical Techniques"	Teaching Learning Centre & Research Development and Services Cell, Ramanujan College (University of Delhi) under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ministry of Human Resource Development	1 week	29 <sup>th</sup> October- 05 <sup>th</sup> November, 2020
Dr. Roshani Rai	Online Academic Leadership Course for Teachers on "Teaching Effectively"	Centre for Academic Leadership and Education Management (CALEM) (Under the Scheme of PMMMNMTT HRD Ministry, Govt. of India, New Delhi) Aligarh Muslim University, Aligarh	1 week	16 <sup>th</sup> February- 22 <sup>nd</sup> February, 2021



- 7. Major thrust area of research : History of North East India, History of Tripura, Environmental History
- 8. New initiatives/Innovations: Revision of syllabus
- 9. Students qualified in various public examinations in the Academic year2020-21 from the Department:

Name	Sex (M/F)	Category (GEN/ ST/ SC/ OBC/ EWS/ MIN)	PH (Yes /No)	Name of the Organization/Institution	Name of the Examination (NET/SLET/GATE/CAT/SSC/ UPSC/TPSC/Others/SWT*/SWO**
Rajib Das	М	SC	No	Tripura University	NET

<sup>\*</sup>Students Opting for Higher Studies With Examination;\*\*Students Opting for Higher Studies Without Examination.



Head of the Department : Sri Sunil Kalai (i/c)

Year of Establishment : 2009 Programmes on offer : MA, PhD

Intake capacity : MA=14, PhD= depending on vacancy

## Major achievements/ Vision of the Department:

The Department of Journalism and Mass Communication, Tripura University emphasizes research and documentation of Art and Culture of the untapped territory of this region both in Print as well as Video Production. Twelve years of existence (since 2009) may be a small period in the life of an academic department, nevertheless, the Department of Journalism and Mass Communication, Tripura University has been striving to contribute in the domain of knowledge and fill the existing gap in the skilled-trained manpower for the media profession in the State. With our course curriculum, hands—on—experience and exposure to the profession, we are sure the relevance of our Dept., will be able definitely add to the growing demand in the sunrise sector of media boom in the State of Tripura in particular and in the national scenario, in general. In days to come, the Department of Journalism and Mass Communication, Tripura University will emerge as a nodal media teaching and learning institution in the NE India to tap the creative potentialities of the students which will have a skilled based employability quotient in the fast shrinking job market scenario of the country.

DEPARTMENT OF JOURNALISM AND MASS COMMUNICATION

## 1. Faculty Members:

	*+1004		ntract*		ing/ ence	Ph.D Guidance		Master Thesis Guidance			
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Sunil Kalai	M.Sc	Assistant Professor	Full Time	Kokborok Cinema and Media Studies	10	ı	-	12		1	-
Deepak Upadhyaya	PhD	Assistant Professor	Full time	Climate Change Communication, Social Media Addiction	10	-	three	12		-	-

<sup>\*</sup>Must be mentioned

# 4

2. Visiting Teacher/ Visiting Fellow:

Name	Topics of courses/lectures taught in Tripura University	Institution affiliated with now/previously (if retired)
1. Dr. Charvak	Video Production	Assam University, Silchar
2. Dr. Uma Shankar	Media Laws and Ethics	Surendranath Banerjee College, Calcutta
Panday		University, Kolkata
Professor B.Diwaker	Documentary Films, Film	Formerly, AJKMCRC, Jamia Millia Islamia
3. FIOIESSOI B.DIWAKEI	Studies	University
4. Sri Moji Riba	Script Writing	Rajiv Gandhi University, Itanagar

- 3. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:
  - 3.1 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Auth ors	Title	Local/ National/ International	Name of the Journal/ Proceedings / Magazine	Volume	Year (2020- 21)	ISSN/ ISBN/ DOI	Page No.
Deepak Upadhyaya et al		Facebook Addiction Propensities among the youths: A study of college students in West Tripura district	National	Communi- cator	LVI(1)	Jan- March2 021	0588- 8093	22- 32

4. Conference/ Seminar/ Workshops/Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Confere	nce/ Seminar/ Wo	kshop attended
Name	Research Scholar	International	National	Institution Level
Sunil Kalai	Teacher	-	5	01
Deepak Upadhyaya	Teacher	-	5	01

5. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Uni versities	Title of Invited talk	
Sunil	Agartala	12-13 <sup>th</sup>	Holy Cross	"Centering the Indigeneous Community within	
Kalai		March,	College,	Indigenous Methodologies: A Case Study of the Tribes	
		2021	Agartala	in Tripura"	



Sunil	Press	19 OCT	Ministry of	Ek Bharat Shreshtha Bharat' celebrates Unity in
Kalai	Information	2020	Development of	Diversity via. Cultural and emotional connect among
	Bureau,		North-East	the people:
	Guwahati,		Region	https://pib.gov.in/PressReleasePage.aspx?PRID=166
				5782
Sunil	Press	27 OCT	Ministry of	'Ek Bharat Shreshtha Bharat' celebrates 'Unity in
Kalai	Information	2020	Information &	Diversity' with its strength in fashion and textiles
	Bureau,		Broadcasting	sector.
	Guwahati			https://pib.gov.in/PressReleasePage.aspx?PRID=166 7780
Sunil	Press	18 OCT	Ministry of	Human Resources (HR) potential among the students
Kalai	Information	2020	Information &	of North East should be leveraged for the region's as
	Bureau,		Broadcasting	well as the country's growth and development
	Guwahati			https://www.sentinelassam.com/guwahati-city/rich-
				cultural-diversity-of-ne-can-boost-atma-nirbhar-
				bharat-mission-507465
Sunil	National	23 <sup>rd</sup> July	Public Relations	National Webinar on PR in Northeast: Yesterday,
Kalai	Webinar on	2021	Council of India,	Today and Tomorrow. To join the meeting on Google
	Public Relations		Tripura Chapter	Meet, click this link: https://meet.google.com/npb-
			& Deptt of JMC,	qajp-zmg
			Tripura	
			University	
Sunil	National	24 <sup>th</sup>	Sports Ministry	Central Government initiatives in the field of Sports
Kalai	Webinar	July2021		
Sunil	Press	20.10.2020	Press	DEKHO APNA DESH: Role of Media and
Kalai	Information		Information	communication in connecting the talents of youth to
	Bureau,		Bureau,	create awareness about the culture, diversity and
	Guwahati		Guwahati on	potential of tourism.
Sunil	Doordarshan	13 Aug	Ministry of	Media and Society
Kalai	Kendra, Agartala	2021	Information &	https://www.youtube.com/watch?v=rRpBULFsxm8
	Tripura		Broadcasting	
Sunil	Doordarshan	Oct 12,	Ministry of	Folktales of Tripura in Film & Role of Mass Media
Kalai	Kendra Agartala	2020	Information &	https://www.youtube.com/watch?v=MSww1xUOflk
	Tripura		Broadcasting	

## 6. Outreach Footprint of the Department:

- \* Social Work and outreach activities are done regularly by the faculty members of the Department of Journalism and Mass Communication. For instance, Sunil Kalai, Assistant Professor, Department of Journalism and Mass Communication is actively involved in areas of immunization, agriculture, horticulture, health awareness, drugs de-addiction camps through the aegis of an NGO named MONDRA ( A Social Welfare Society) in different remote villages of the State.
- \* Sunil Kalai and Deepak Upadhyaya, faculty members of the Department have been actively organizing and participation in distribution of relief materials by in the prevailing Covid-19 situation.

\* The Faculty members are actively involved in combating human trafficking, drugs deaddiction, behavior change communication in with and hygiene, Vigilance Awareness Programmes at Block and Subdivision levels in different districts and advocacy for Covid-19 vaccination camps. For instance, Sunil Kalai has actively rendered services in remote areas of the district during the Covid-19 situation.

# 6.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duration	Title	Refresher / Orientation Courses	Inter- national / National	No. of Participants
1	21 Sept 2020	One day	Webinar on "Brand Priumization" was conducted by Department of Journalism and Mass Communication, Tripura University wherein Prof. G.P. Prasain Honourable VC Tripura University, Dr. Charvak, Associate Professor, Mass Communication Department, Assam University, Prof. Joya Chakraborty, Head, Department of Mass Communication and Journalism, Tezpur University and Dr. Sumo Banerjee, Executive officer Excell Ad and PR Agency, Mumbai participated	Online Webinar	Inter- national	200

## 6.2 Interaction with Industry/ NGO / Govt. Organization :( For Faculties)

SI. No.	Faculty Names	Name of Industry/ NGO	Location of Industry	MOU Signed? (Yes/No)	Any Grant Received? (If yes value in Lakhs)	Student Placed? (If yes, Specify Number.)
		Mondra- (A Social Welfare     Society)	Agartala	Yes	No	-
		Tribal Research and Cultural Institute	Agartala	-	-	-
		3. Press Club Agartala,		-	-	-
1	Sunil Kalai	4. ICA Department,	Agartala	-	=	-
		5. Society for Entrepreneurship Development	Agartala	-	-	-
		6. Public Relations Society of India, Tripura Chapter	Agartala	-	-	-
		7. OTPC	Agartala	-	-	-

	Deepak	1.	Mondra- (A Social Welfare Society)	Agartala	-	-	-
2	Upadhyaya	2.	SOFED	Agartala	-	-	-
	opaa,a,a	3.	Public Relations Society of India,	Agartala	-	-	-
			Tripura Chapter				

# 6.3 Interaction with Industry/ NGO / Govt. Organization: ( For Students)

Name of the	No control of Augustina	Number of Industry/	D
Department	Name of Industry/ NGO visited	NGO visited	Purpose of visit
JMC	Mondra- (A Social Welfare Society)	-	Field visit for social learning
JMC	Doordarshan Kenda Agartala	-	Internship Programme
JMC	SIPARD, Agartala ( Govt. Organization)	-	Internship Programme
JMC	All India Radio	-	Internship Programme
JMC	Tripura Observer ( Local English		Internship Programme
JIVIC	Newspaper)	-	
JMC	SRISTI Tripura ( TV Channel)	-	Internship Programme
JMC	News ICON (TV Channel)	-	Internship Programme
JMC	Gandharva Culture and Arts Organization,		Field Visit for social learning
JIVIC	Kathmandu ( Nepal )	-	
JMC	Nepal Gandharva Community Development	_	Field Visit for social learning
JIVIC	Centre, Kathmandu ( Nepal)	-	
JMC	OTPC, Tripura	-	Field Visit for social learning
JMC	Arpan Society Tripura	-	Field Visit for social learning
JMC	Anim8or ( An Advertising and Production		Internship Programme
JIVIC	Centre) Agartala	-	
JMC	Amar Ujala, Noida	-	Internship Programme
JMC	RISING Tripura ( TV Channel)	-	Internship Programme
JMC	Kok Tripura ( TV Channel)	-	Internship Programme
JMC	Centre for Media Studies, New Delhi	-	Internship Programme
JMC	TNGLC	-	Internship Programme

# 6.4 Membership in Professional / Learned Societies:

Faculty/ Scholar Name	Grade of Membership	
Sunil Kalai	<ul> <li>i. Mondra- (A Social Welfare Society)</li> <li>ii. Economic Science Society of Tripura (ESSOT).</li> <li>iii. The Asian Media Information and Communication Center (AMIC), Singapore</li> </ul>	Life Member
Deepak Upadhyaya	<ul> <li>i. Life Member, Indian Association for Social Sciences and Health (Life Membership No: L-819).</li> <li>ii. Life Member, Indian Association of Teacher Educators (IATE), MJP Rohilakhand University, Bareilly, UP. (Life Membership No: D-85).</li> <li>iii. Life Member, Media Wing, Rajyoga Education and Research Foundation (RERF), Mount Abu.</li> </ul>	Life Member

# 4

## 6.5 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Sunil Kalai	2 Week Faculty Development Programme on "Research Methodology"	Ramanujan College, University of Delhi	2 Weeks (Online)	01-15 October, 2020
Sunil Kalai	2 Week Faculty Development  Sunil Kalai Programme on "Photography and  Media Communication"		2 Weeks (Online)	09-11-2020 to 13-11-2020
'Mentoring and Facilitations Skills for Institutional Mentors' conducted by Faculty Development Centre, Mahatma Gandhi National Council of Rural Education		Hyderabad	Five Days (Online)	June 24-28, 2020
Deepak Upadhyaya	'Development of Teachers e-Kit and MOOCS in Four quadrant Format of e-Content' conducted by Guru Angad Dev Teaching and Learning Centre, SGBT Khalsa College, University of Delhi	New Delhi	One Week (Online)	September 12- 20,2020
Deepak Upadhyaya	'Towards Quality Higher Education Through NEP 2020' conducted by Guru Angad Dev Teaching and Learning Centre,SGBT Khalsa College, University of Delhi	New Delhi	One Week (Online)	27 October-02 November 2020
Deepak Upadhyaya  Deepak Upadhyaya  Centre, Ramanujan College, University of Delhi		New Delhi	One Week (Online)	June 08-14, 2020

### 7. Major thrust area of research:

The Department of Journalism and Mass Communication, Tripura University since its inception has been emphasizes on conducting extensive research in preparation of Participatory Documentary Film Production on different socio-economic and cultural issues of the people of the State of Tripura. Besides, the Department of JMC believes it to be an urgent need in conducting research in communication for social development and changes, New Media. The Department also emphasizes research activities and documentation of Art and Culture of the untapped but rich areas of the State, in particular and the whole region in general in both Print media as well as Video Production.

## 8. New initiatives/Innovations:

- 1. Proposing to start Kokborok Film and Cultural Research Centre in Tripura.
- 2. Proposing to start Media and Northeast Studies Centre.
- 3. Collaboration with more Media Industries, NGOs like IMPULSE NGO Network & Government Organizations in media sector like Disaster Management Authority, Govt of Tripura.
- 4. Preparation of MOOC and E –Learning Courses for JMC.



- Canon DSLR( Model: EOS 5D Mark (IV ) with Lens ( Model:EF:24-105 mm IS II USM)
- GoPro HERO4 4k Action Camera
- Super 5-in1 Collapsible Photo Light Reflector(100 x 150 cm)
- Canon BG-E20 Battery Grip for EOS 5 D Mark IV Camera
- Battery for Camera (Model No- BM Premium 2 LP-E6 LP E6N) Charger for Canon Camera EOS 5D, Mark IV.
- 256 GB CF Card
- Manfrotto Tripod( Model No-MVH502A)
- Lens( Model No-MP-E65mm f/2.81-5 macro)
- Lens( Model No- EF50mm, f/1.2L usm)
- Lens( Model No- EF 180mm, f/3.5 macro usm)
- Video camera smooth slider Dolly rail for DSLR
- Sony Digital HD Video Camera Recorder with (Model- HVR-Z5P) accessories
- I Mac 21.5 inch (Model: MF086)
- Mac Pro (Model: ME 253HN/A)
- Cannon DSLR EOS 7D
- Lens EF -570-300 MM
- Lens 18-135 MM
- Canon EOS 50 D+ Lens EF 14 MM
- Lens EF-570-300 MM
- Sony Camera DCR SD 1000E
- Tripod SLIK OPTO
- Tripod Unit for Camcorder (Manufactured by : Manfrotto, Model: 701HDV, 547B)
- Info Lithium battery for 6 hrs. back up (Manufactured by Sony, Model: NP-F970)
- Memory Recording Unit (Widely available standard CF card is used for HDV, DV CAM, DV file Recording) (Manufactured by: Sony, Model: HVR-MRC1K)
- Carrying case for Camcorder
- Ahuja 14 Channel Digital Sound Mixer (Model: AMX-1412)
- Ahuja Sound Monitor (Model: SRM 120)
- Ahuja Condenser Microphone (Model: CUM 450)
- Ahuja Dynamic Microphone (Model: PRO 3200)
- Ahuja Omni Directional Microphone (Model: SHM-1000 DR) and many more.

### 10. Details of Student's Placement known to the Department:

Name	Sex (M/ F)	Category (GEN/ ST/SC/ OBC/EWS/MIN)	PH (Yes /No)	Name of the Organization/ Institution	Designation	Examination Body	Name of the Examin ation
Priya Kaul	F	Gen	-	SIPARD, Agartala	Internee	-	-
Chandan Panday	М	Gen	-	JICA Project	Communicati on Officer	-	-

## **DEPARTMENT OF KOKBOROK**

Head of the Department : Prof. Sukhendu Debbarma (Head I/C)

Year of Establishment : 2015 Programmes on offer : MA, PhD.

Intake capacity : 60

## Major achievements/ Vision of the Department:

The Department of Kokborok started from the session 2015-16. The vision of the Department is to take up research on Kokborok language and literature and to document endangered languages of Tripura. The languages and literatures of other tribal languages of Tripura will also be given thrust. At the same time to do comparative research on Kokborok and sister languages such as Bodo, Garo, Dimasa, Rabha, Tiwa etc. The Department has started PhD programme from the session 2018-2019. The Department will initiate Departmental literary Journal. The Department has a plan to organize seminars, workshops, symposiums and to conduct orientation programme for Kokborok teachers of schools and colleges. The Department has a vision to start collaborative research with many institutions and organizations such as CIIL, TRI, UGC etc. The students are encouraged and motivated to carry out research on Kokborok language, literature etc.

### 1. Faculty Members:

			st/	_	f earch/ e		h.D dance	Mas The Guida	sis		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/ Job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Mrs. Khumtiya Debbarma	MA-Hindi, SLET	Assistant Professor	Full time	Premchand/ Kokborok Literature	14 years 9 months	ı	ı	50	05	ı	1
Dr. Samir Debbarma	MA- Linguistics, UGC-NET, PhD	Assistant Professor	Full time	Tibeto-Burman Languages, Language Documentation, Kokborok Linguistics	5 years 10 months	1	03	58	15	1	-
Sri Nanda Kumar	-	Guest Teacher	Guest	Drama, Novel and Poetry	5 years	-	-	59	13	-	-
Smt. Victo Debbarma	MA- Education, SLET, PG Diploma in Kokborok	Guest Teacher	Guest	Novel, Poetry	4 years 6 months	-	-		-	-	-
Dr. Biman Debbarma	MA-English, Linguistics, PG Diploma in Kokborok, PhD in Linguistics	Linguistic Officer	Deputed to the Departmen t to assist teaching	Phonology, Morphology, Syntax, Semantics, Poetry, Literary theory & criticism	5 years 10 months	=	-	57	21	-	1

<sup>\*</sup>Must be mentioned



2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

#### 2.1 Books:

	Main Author	Co- Authors	Title	Local/National/ International	Publishers	Year (2020-21)	ISBN
N	anda Kumar Debbarma		Uponyas Somogro	Local	Niharika Publishers	2021, February	

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Nama	Teacher/Student/	Number of Conferer	ice/ Seminar/ Woi	/ Seminar/ Workshop attended		
Name	Research Scholar	International	National	Institution Level		
Dr. Samir Debbarma	Teacher	02 (presented online)	01 (workshop attended)	-		
Dr. Biman Debbarma	Linguistic Officer *	02 (presented online)	01 (workshop attended)	-		
Sri Biplab Debbarma	Research Scholar	02 (presented online)	-	-		
Sri Dipra Kishor Debbarma	Research Scholar	02 (presented online)	-	-		

<sup>\*</sup> Deputed to Department of Kokborok to assist teaching (Linguistic Officer)

3.1 Webinars, talks attended by Teacher/Students/Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper: (Only Numbers)

Nama	Teacher/Student/	Number of Webinars attended			
Name	Research Scholar	International	National	Institution Level	
Dr. Samir Debbarma	Teacher	02	15	-	
Dr. Biman Debbarma	Linguistic Officer *	37	10	-	
Sri Biplab Debbarma	Research Scholar	01	06	-	
Sri Dipra Kishor Debbarma	Research Scholar	02	08	-	
Sri Jahar Debbarma	Research Scholar	02	03	-	

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Dr. Biman	Agartala, Tripura	15 <sup>th</sup> and 16 <sup>th</sup>	Directorate of Kokborok & OML,	"Morphology in
Debbarma	(Webinar)	July, 2021	Education Dept. Govt. of Tripura	Kokborok"

5. Outreach Footprint of the Department:

#### 5.1 Membership in Professional / Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership	
	Dravidian Linguistics Association	Life Membership	
Dr. Samir Debbarma	Linguistic Society of India (LSI)	Life Membership	
	Society for Endangered and Lesser Known Languages (SEL)	2 years	
Dr. Biman Debbarma	Linguistic Society of India (LSI)	Life Membership	
Dr. Billian Debbarina	Society for Endangered and Lesser Known Languages (SEL)	2 years	

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## 5.2 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
	Faculty Development Program "Development of Teacher's e-Kit and MOOCs in Four Quadrant Format of e-Content"	Delhi	One Week	12-20 September, 2020
	Faculty Development Program "Fundamentals of Empirical Research"	Delhi	One Week	28 September-6 October 2020
Dr. Samir Debbarma	National Faculty Development Programme on "Capacity Building in Drafting Proposals for Funded Research"	Delhi	One Week	6-11 October 2020
	Faculty Development Program "Learning Management System (Moodle) for Online Teaching-Learning"	Delhi	One Week	11-17 October 2020
	one week National Faculty Development Program on "Towards Quality Higher Education through NEP-2020"	Delhi	One Week	27 <sup>th</sup> October – 2 <sup>nd</sup> November 2020
	one week Online Faculty Development Program on "Digital Tools in Teaching"	Delhi	One Week	23 <sup>rd</sup> –27 <sup>th</sup> November 2020
	Faculty Development Program on Contemporary Research Methods in Linguistics and Literature: Sampling and Analytical Methods of Scientific Perspectives	Coimbatore	One Week	15 <sup>th</sup> to 21 <sup>st</sup> July 2020
Dr. Biman Debbarma	Faculty Development Programme on "A-Z of Writing & Publication in Scopus-Indexed Journals"	Andhra Pradesh	One Week	16 <sup>th</sup> – 22 <sup>nd</sup> August 2020
	Faculty Development Programme on "Strategies to write good research article – Part II"	Manipal	1 day	13 <sup>th</sup> September 2020
	Faculty Development Programme on "Writing Effective Management Case Studies"	Manipal	1 day	27 <sup>th</sup> September 2020

# 6. Major thrust area of research: Kokborok Language, Literature and Folk Literature

# 7. Details of Student's Placement known to the Department:

Name	Sex (M/ F)	Category (GEN/ ST/SC/ OBC/EWS/ MIN)	PH (Yes /No)	Name of the Organization/ Institution	Designation	Examination Body	Name of the Examina tion	
Ajanjoy	М	ST	No	Govt. Degree College,	Guest	Higher	_	
Tripura		3.		Longtrai Valley	Lecturer	Education		
Bhaskar Jyoti	М	ST	No	Guest BBM College, Agartla		Higher		
Debbarma	IVI	31	NO	bbivi College, Agai tia	Lecturer	Education		
Sanit	М	ST	No	Govt. Degree College,	Guest	Higher	_	
Debbarma	IVI	31	NO	Gandacherra	Lecturer	Education	-	
John	М	ST	No	Kabi Nazrul Mahavidyalaya,	Guest	Higher	-	
Debbarma	IVI	31	INO	Sonamura	Lecturer	Education		
Binay	М	ST	No	MBB College, Agartala	Guest	Higher	_	
Jamatia	171	31	INO	widd College, Agartala	Lecturer	Education	,	
Diman	Diman M ST		No	Govt. Degree College,	Guest	Higher	-	
Debbarma	IVI	IVI SI		Dharmanagar	Lecturer	Education		



Bindu	М	ST	No	Govt. Degree College,	Guest	Higher		
Debbarma	IVI	31	NO	Dharmanagar	Lecturer	Education	-	
Swapan	М	ST	No	Govt. Degree College,	Guest	Higher		
Debbarma	IVI	31	NO	Dharmanagar	Lecturer	Education	-	
Mallika	F	ST	No	Govt. Degree College,	Guest	Higher		
Debbarma	F	31	NO	Khumwlwng	Lecturer	Education	-	
Soma	F	ST	No	Govt. Degree College,	Guest	Higher		
Debbarma	F	31	31	NO	Khumwlwng	Lecturer	Education	-
Sanjit	М	ST	No	Michael Madhusudan	Guest	Higher		
Debbarma	IVI	31	NO	Datta College, Sabroom	Lecturer	Education	-	
Bina Reang	F	ST	No	Govt Degree College,	Guest	Higher		
billa Kealig	F 31		NO	Santirbazar	Lecturer	Education	-	
Runashree	F	ST	No	Swami Vivekannada	Guest	Higher		
Debbarma	「	31	NO	Mahavidyalaya, Mohanpur	Lecturer	Education	-	
Jaya	Е	СТ	No	Woman's Callaga Agartala	Guest	Higher		
Debbarma	Pharma F ST No		Women's College, Agartala	Lecturer	Education	-		



#### **DEPARTMENT OF LAW**

Head of the Department : Dr. Brij Mohan Pandey

Year of Establishment : 2011

Programmes on offer : LL.M (ONE YEAR), Ph.D LAW

Intake capacity : 15

#### Major achievements/ Vision of the Department:

The Department of Law is dedicated towards imparting the legal education coupled with an understanding of essential legal principles. The Department of Law plays the vital role of shaping the future of abled, critically thinking, analytically empowered and enlightened legal human resources. Apart from this, the Department of Law offers a modernized intellectually stimulating curriculum, that is uniquely customized to satisfy the versatile academic needs of every student. The dynamic ranges of post graduate and doctorate programs are designed to meet the contemporary needs of the society. The Department of Law focuses on the comprehensive acquisition of legal knowledge, in both theoretical and practical aspects, while promoting a staunch mooting culture. The Department of Law committed to guiding you today, on the journey towards your legal career tomorrow.

1. Faculty Members:

I. radaty w			sst/	a	rs of Research/ ence		n.D ance	Mas The Guida	sis		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract	Research area	No. of years of Teaching/ Rese job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Brij Mohan Pandey	Ph.D	Assistant Professor (Head-in-Charge)	Full time	Corporate Law	12	1	2	74	11	-	-
Dr. Maitreyee Chakraborty	Ph.D	Assistant Professor against Lien Vacancy	Lien Vacancy		6	-	-	-	-	-	-
Dr. Ankur Sarkar	Ph.D	Guest Lecturer	Guest	Labour Law	5 years 5 months	ı	ı	20	6	-	-

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

## 2.1 Books:

			Local/		Year	
Main Author	Co- Authors	Title	National/	Publishers	(2020-	ISBN
			International		21)	
Dr. Brij Mohan	Dr. Ankur	Role of TTAADC IN SKILL	National	JuniKhyat		
Pandev	Sarkar	DEVELOPMENT PROGRAMME		Vol.11,	May,	2278-
Tanacy		AMONGST THE TRIBAL YOUTHS OF		,	2021	4632
		TRIPURA: AN ANALYSIS		Issue 5		

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

N	Teacher/Student/	Number of Cor	nference/ Seminar/ Wor	rkshop attended
Name	Research Scholar	International	National	Institution Level
Dr. Brij Mohan pandey	Teacher	2	3	-

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Dr. Brij Mohan pandey	Agartala	16 July 2021	MBB University	Judicial Activism

5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of Scholars	Par time/ Full time	ar time/ Full time Research topic Name of Gu		Registered/Theses submitted/ Awarded
Swapan Debbarma	Part Time	To be decided	Dr. Brij Mohan Pandey	Registered
Ruma Das	Full time	To be decided	Dr. Brij Mohan Pandey	Registered

6. Students qualified in various public examinations in the Academic year2020-21 from the Department:

Cov	Cass	Category	PH	Name of the	Name of the Examination
Name	Name Sex (M/F)	(GEN/ ST/SC/	(Yes	Organization/	(NET/SLET/GATE/CAT/SSC/
		OBC/EWS/MIN)	/No)	Institution	UPSC/TPSC/Others/SWT*/SWO**
Ruma Das	F	SC	NO	UGC NET	LAW NET

<sup>\*</sup>Students Opting for Higher Studies With Examination;\*\*Students Opting for Higher Studies Without Examination.

#### **DEPARTMENT OF LIBERAL ARTS**

Head of the Department : Dr. Jahar Debbarma

Year of Establishment : 2019

Programmes on offer : M.A in Liberal Arts

Intake capacity : 20

#### Major achievements/ Vision of the Department:

It was recognized widely that a liberal arts education is basically intended to expand and expose the capacity of the mind to think critically and analyze information effectively. It develops and strengthens the brain to think within and across all disciplines so that it may serve the individual over a lifetime.

Art History Professor T. Kitao of Swarthmore delivered an address with a poignant summary of the value of a liberal education: "The knowledge you learn about the subject of the course is its nominal benefit. It is like the stated moral at the end of a fable. The real substance of learning is something more subtle and complex and profound, which cannot be easily summarized – like the story itself. It has to be experienced, and it is as an experience that it becomes an integral part of the person. Learning how to learn by learning how to think makes a well-educated person." And further another great personality Steve Jobs once said, "Technology alone is not enough. It's technology married with the liberal arts, married with the humanities, that yields us the results that make our hearts sing." It's important to remember that, while there is a demand for STEM students and specialized degrees, it is possible to pursue a liberal arts education with intent and create multiple paths to career success in the process.

Keeping in mind of the importance and values in the 21<sup>st</sup> century Tripura University introduced a Post Graduate Programme in Liberal Arts in the year 2019 with intake capacity of 20 students. Currently, the Department offers Post Graduate course including papers like Cultural Studies, Economics, Political Science, Psychology, Archaeology and Anthropology in the 1<sup>st</sup>& 2<sup>nd</sup> Semester.

## 1. Faculty Members:

·			Guest/	ø	rs of Research/ ence		Ph.D idance	Mas The Guid	esis		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Gue Contract*	Research area	No. of years of Teaching/ Rese job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Mohmmed Viquaruddin	Ph.D	Guest Teacher	Guest	Political Science	-	-	-	-	-	-	-
Rashmi Das	NET(JRF)	Guest Teacher	Guest	Sociology	-	ı	-	-	ı	-	-

Kindly note that the Department do not have any permanent teacher and it is run by the Guest Faculty only.



Head of the Department : Dr. Khawlsonkim Suantak

Year of Establishment : 2016

Programmes on offer : M.A & Ph.D

Intake capacity : 20

#### Major achievements/ Vision of the Department:

The department imparts knowledge of contemporary theories and methods of Linguistics to students and promotes research on languages of India with special reference to tribal languages. Topics of teaching include traditional areas of linguistics, languages of South-Asian families with special focus on Tibeto-Burman family, and endangered languages. Areas of research include historical linguistics, languages of Dravidian and Tibeto-Burman families, phonology, morphology, semantics, sociolinguistics, syntax, and translation. The department is actively engaged in research, field work and language documentation related to languages of Bodo-Garo-Koch and Kuki-Chin-Naga subgroups of Tibeto-Burman language family.

#### 1. Faculty Members:

			of Teaching/ b experience	Ph.D Guidance		Master Thesis Guidance					
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Te Research/ job exp	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Khawlsonkim Suantak	PhD	Assistant Professor	Full time	Sociolinguistics Tibeto-		-	03	03	05	06	01
Dr. Sagolsem Indrakumar Singh	PhD	Assistant Professor	Full time	Morphology, Morphosyntax, Semantics, Descriptive Linguistics, TB studies	05	-	01	02	05	03	01
Dr. Niranjan Uppoor	PhD	Assistant Professor	Full time	Dravidian languages, historical linguistics, syntax	06	-	01	04	05	-	-

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

### 2.1 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ International	Publishers	Year (2020- 21)	ISBN	Page No.
Sagolsem Indrakumar Singh	-	Morpho- syntactic Aspects of Kokborok Numeral System	Tariq Khan	Queries in the Structure of Language	National	Central Institute of Indian Languages (CIIL) & Linguistic Society of India (LSI)	2020 July	978 819 464 997 7	169- 177

# 4

2.2 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020- 21)	ISSN/ ISBN/ DOI	Page No.
Sagolsem Indrakumar Singh	-	Bisyndetic Structure of Coordination in Manipuri: Logical, Binary and Postpositive Construction	National	Aligarh Journal of Linguistics	Vol. No. 10 Issue No. 1.	2020- 2021	ISSN: 2249- 1511	175- 190

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Co	Number of Conference/ Seminar/ Workshop attended					
Name	Research Scholar	International	National	Institution Level				
Khawlsonkim Suantak	Teacher	01	03	-				
Sagolsem Indrakumar Singh	Teacher	04(Certificates issued) + 08 (Certificates not issued)	02 (Certificates issued) + 07 (Certificates not issued)	03 (Certificates issued) + 01 (Certificates not issued)				
Niranjan Uppoor	Teacher	01	-	-				
Adam Molsom	Research Scholar	02	-	-				

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Niranjan Uppoor	Bengaluru, India	11.08.2020	National Institute of Advanced Studies	Language, meaning and linguistic theories

5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of Scholars	Par time/ Full time	Research topic	Name of Guide	Registered/ Theses submitted/ Awarded
Priya Debbarma	Full time	A Structure of Kokborok Morphology	Dr. Sagolsem Indrakumar Singh	Started course work (Yet to registered)

## 6. Outreach Footprint of the Department

6.1 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership		
Dr. Khawlsonkim Suantak	Dravidian Linguistics Association	Life Member		
Dr. Khawlsonkim Suantak	Linguistic Society of India	Life Member		
Dr. Sagolsem Indrakumar Singh	Dravidian Linguistics Association	Life Member		



Dr. Sagolsem Indrakumar Singh	Linguistic Society of India	Life Member
Dr. Niranjan Uppoor	Linguistic Society of India	Life member
Dr. Niranjan Uppoor	Dravidian Linguistics Association	Life member
Adam Molsom	TibLaNEI	Annual Member

## 6.2 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

		•	•	
Name	Course attended	Location	Duration	Date
Dr. Khawlsonkim Suantak	Online Faculty Development Program on "Startup Support, Innovation Management and Entrepreneurship Development in Educational Institutions"	Organized by GUSEC, Gujarat University	Five-day	14 <sup>th</sup> to 18 <sup>th</sup> September, 2020
Dr. Khawlsonkim Suantak	Online Faculty Development Program on the theme "Pedagogical Practices of New India Under National Education Policy, 2020"	Jointly organized by Tripura University, Manipur University &n Assam University	Five-day	7 <sup>th</sup> to11 <sup>th</sup> October, 2020
Dr. Khawlsonkim Suantak	Online Faculty Development Program on "Online Teaching & Learning Practices"	Organized by Virtual Labs, IIT Delhi	Two weeks	15 <sup>th</sup> to 31 <sup>st</sup> October, 2020
Dr. Khawlsonkim Suantak	Online Refresher Course on "Emerging Accessible Technologies for Teachers in Higher Education"	Jointly organized by Maitreyi College, University of Delhi and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi	Two Weeks	20 <sup>th</sup> March to 3 <sup>rd</sup> April, 2021
Dr. Sagolsem Indrakumar Singh	Two-week Faculty Development Programme on "ICT Tools for Teaching, Learning Process and Institute"	Jointly organized by NIT Patna, MNIT Jaipur, PDPM IIITDM Jabalpur, IIT Guwahati and IIT Roorkee	Two weeks	10 <sup>th</sup> to 21 <sup>st</sup> August, 2020
Dr. Sagolsem Indrakumar Singh	One Week Faculty Development Program "Fundamentals of Empirical Research"	Guru Angad Dev Teaching Learning Centre, S.G.T.B. Khalsa College, University of Delhi	One week	28 <sup>th</sup> Sept. to 06 <sup>th</sup> Oct., 2020
Dr. Sagolsem Indrakumar Singh	One Week Faculty Development Program on "Advanced Pedagogical Techniques"	Teaching Learning Centre, Ramanujan College, University of Delhi	One week	October 29 to November 05, 2020
Dr. Sagolsem Indrakumar Singh	15-day Interdisciplinary Refresher Course on "Curriculum and Pedagogy"	Teaching Learning Centre, Tezpur University	15 Days	15 <sup>th</sup> Feb. to 1 <sup>st</sup> March, 2021

7. Major thrust area of research: Phonetics and Phonology, Morphology, Syntax, Sociolinguistics, Second Language Acquisition, Tibeto-Burman Languages, Bodo-Garo-Koch-Kuki-Chin-Naga Languages and Special importance to languages of North-East India.

8. Students qualified in various public examinations in the Academic year 2020-21 from the Department:

Name	Sex (M/F)	Category (GEN/ ST/SC/ OBC/EWS/MIN)	PH (Yes /No)	Name of the Organization/Institution	Name of the Examination (NET/SLET/GATE/CAT/SSC/ UPSC/TPSC/Others/SWT*/SWO**
Rakesh Sen	М	GEN	NO	Tripura University	NET-JRF

<sup>\*</sup>Students Opting for Higher Studies With Examination;\*\*Students Opting for Higher Studies Without Examination.

9. Details of Student's Placement known to the Department:

Name	Sex (M/F)	Category (GEN/ ST/SC/ OBC/EW S/MIN)	PH (Yes /No)	Name of the Organization/ Institution	Designation	Examination Body	Name of the Examination
Rasna Jamatia	F	ST	No	Home Department, Government of Tripura	Mahila Police Volunteer (MPV)	Home Department, Government of Tripura	Interview, Mahila Police Volunteer (MPV)
Bishal Debbarma	М	ST	No	Assam Rifle	Recruit (GD)	Assam Rifle	Assam Rifle Recruitment



#### **DEPARTMENT OF MUSIC**

Head of the Department : Dr. Ajaykumar .M . Savane (Head in charge)

Year of Establishment : 2009

Programmes on offer : M.A in Hindustani Music (Vocal), M.A.in Classical Dance (Kathak),

Ph.D in Music, Ph.D in Dance

Intake capacity : 40

### Major achievements/ Vision of the Department:

The Department of Music, Tripura University was established in Year 2009. The Department is running with two different streams - Hindustani Music -Vocal and Classical Dance - Kathak, which is led by dedicated teachers, and well trained performing artists. They are masters in their respective art forms and field and they are associated with their prestigious renowned Gurus and Maestros of their field. The Department of Music is offering PH.D and Master Degree in Vocal Music (Hindustani Music) and Kathak Dance (Indian Classical Dance). At present, it is the only department in the North East States, which is offering Master Degree in 'Kathak Dance'. Department of Music conducts innovative advanced training in the Classical Dance - Kathak and Hindustani Music (Vocal), both in practical and theoretical aspects. Department is connected to most of the prestigious universities of India such as Delhi University, Banaras Hindu University, Rabindra Bharati University, Indira Kala Sangeet Vishwavidyalaya etc. in various areas of academics. Department is also associated with Sangeet Natak Akademi, Delhi and workshops are regularly being held in collaboration by eminent Artists and professors of Vocal music and the Kathak Dance field, to impart advance and knowledge in Vocal Music and Kathak Dance. Expansion of the Department of Music in various disciplines like Indian Classical Dance, Folk Dance, Instrumental music, Musicology etc. and to introducing of new carrier oriented courses in those disciplines is the vision of the Department of Music in upcoming years.

#### 1. Faculty Members:

,			st/		f earch/ e	Ph.D Guidance		Master Thesis Guidance			
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr.Utpal Biswas	PH.D	Assistant professor	Full time	Indian Classical Music	16	Nil	05	-	-	-	-
Dr.Rabindra Bharali	M.Phil, PHD	Assistant Professor	Full time	Indian Classical Music and	16yrs and 3months	Nil	05	-	-	-	-
Dr. Ajaykumar M.Savane	PH.D & NET JRF	Assistant Professor in Music (Kathak Dance)	Full time	Indian classical Dance & folk Dance	10 years 04 months	Nil	-	-	-	-	-

<sup>\*</sup>Must be mentioned

# 4

## 2. Guest Faculty:

Name	Topics of courses/	Institution affiliated with
Ivallie	lectures taught in Tripura University	now/previously (if retired)
Dr.Sampa ray	Hindustani classical Music Theory and practical	-
Dr. Debjyoti Lashkar	Kathak Dance Theory and practical	-

3. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

## 3.1 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ Inter- national	Publishers	Year (2020- 21)	ISBN	Page No.
Tama Debnath	Dr. Rabindra Bharali	Padavali kirtan: A performing art of Bengal	Prof Ashimnanda Gangopadha ya, Dr.Parul Mishra, Arnab Chakroborty	Indian folklore contem- plation of Art Aesthetics and culture	National	Upnayan Publishers	2021	978- 81- 949- 267- 4-0	98

3.2. Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020- 21)	ISSN/ ISBN/ DOI	Page No.
Tama Debnath	Dr. Rabindra Bharali	Charyapada as a musical form : A study	Local	Saraswat : Tripura University Research Journal	1	2021	-	176
Mahuwa Roy	Dr. Rabindra Bharali	The tradition of gharana and its significance in Hindustani music	Local	Saraswat : Tripura University Research Journal	1	2021	-	29
Dr. Ajaykumar M. Savane	-	Bhartiya Nrityakala Me Adhunikata se samkalinta	UGC approved Peer Reviewed Journal	Interdisciplinary journal of contemporary research	07	July 2020	ISSN : 2393- 8358	127 to 129

4. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Name	Teacher Name	Number of Conference/ Seminar/ Workshop attended					
Name	reacher Name	International	National	Institution Level			
Online webinar on New education	Dr.Ajaykumar .		_	01			
Policy	M.Savane	-	-	01			



07 days Online Workshop: "Teaching Effictively"	Dr. Ajaykumar M.Savane	-	01	-
07 Days Online short term course	Dr. Ajaykumar M.Savane	-	01	-

# 5. Ph.D. Scholars registered (started course work)/Theses submitted during the academic year2020-21:

Name of Scholars	Par time/ Full time	Research topic	Name of Guide	Registered/ Theses submitted/ Awarded
Mamtaj Debbarma	Full time	Started course work	-	-
Anirban Biswas	Full time	"Pandit Vishnu Govind Jog :the Violin Icon"	Dr.Rabindra Bharali	Thesis submitted
Alok Acharjee	Full time	"Musicial Socialization of Ustad Sharafat Hussain Khan of Agra Gharana and His contribution to the North Indian classical Music: A analytical Study"	Dr.Utpal Biswas	Thesis submitted
Debashree Deb	Full time	"Tusu songs :A musicological study"	Dr.Utpal Biswas	Thesis Submitted

## 6. Outreach Footprint of the Department:

## 6.1 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Dr.Ajaykumar	Faculty Development	Online Mode	Two week	14 <sup>th</sup> August
Machindranath Savane	Course	Offilite Widde		to 28 <sup>th</sup> August

7. Major thrust area of research: Indian classical Music,Folk music, Indian Classical dance and folk Dance



#### **DEPARTMENT OF PERFORMING ARTS**

Head of the Department : Dr. Utpal Biswas

Year of Establishment : 2019

Programmes on offer : MA in Performing Arts (Dramatic)

Intake capacity : 20

#### Major achievements/ Vision of the Department:

The Department of Performing Arts (Dramatic) had been started in the year 2019. The classes of this department had been started on 18th August 2019. The major achievements of this department during this period is as follows:

The students have been performed many dramas different awareness issues regarding of our society. Besides theses, the famous drama artist visited our department as visiting fellow from outside Tripura. One of the visiting fellow come from USA and taught our students with great care. Our future vision is to be establish our department all over India as one of the best dramatic centre.

#### 1. Faculty Members:

			lest/	_	's of Research/ ence		n.D ance	The	ster esis ance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Gue: Contract*	Research area	No. of years of Teaching/ Rese job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr.Utpal Biswas	Ph.D	Asst. Prof.	Additional	Hindustani Classical	16	-	05	-	-	-	-
BISWaS		Proi.	Duty	Music, Music of North East India							

<sup>\*</sup>Must be mentioned

#### 2. Visiting Teacher/ Visiting Fellow:

Name	Topics of courses/lectures taught in Tripura University	Institution affiliated with now/ previously (if retired)			
Dr. Millind Inamdar	Acting and Direction	Bombay University			
B. Chakraborty	Folk Drama	Puna University			
Prof. K.K.Joshi	Direction & Production	Uttarakhand University			
Aniirban Banik	Creative Drama	Puna University			

## 3. Outreach Footprint of the Department:

# 3. A. Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/Workshops/ Symposia Lecture/ Talk	International / National	No. of Participants	
1	19-03-21	25-03-21	Acting	Workshops	N	26	
2	01-04-21	03-04-21	Creative Drama	Workshops	N	25	



Head of the Department : Dr. Mohan Debbarma

Year of Establishment : 1994

Programmes on offer : IMD, M.A. & Ph.D Intake capacity : 95 (MA 80 +IMD 15)

#### Major achievements / Vision of the Department :

Major achievements / Vision of the Department (300 words): The Department has arranged and organized seminars, symposiums, lectures, workshops etc. Every year as part of Teachers Day program this Department has been organizing and arranging seminars, discussions, lecture programs etc. since its inception. In 2016, the Department of Philosophy had introduced a Discussion Forum named Peer Group Academia to inculcate academic engagements among students, research scholars and faculties of the University. This Department also started celebrating World Philosophy Day in the month of November to observe the birth day of great Philosopher Socrates. The Department in its long term vision is planning to initiate UGC Special Assistance Programme (SAP) shortly. The Department is also going to continue its Journal named "PRATYAYA" in near future.

#### 1. Faculty Members:

			t/		earch/		uidance	Mas The Guid			
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Mohan Debbarma	M.A. Ph.D	Associate Professor	Full Time	Philosophy of Culture and Religion, Contemporary Indian Philosophy, Ethics, Western Philosophy	24 yrs.	5 (five)	6 (Six)	Nil	Nil	1	-
Dr. Bimal Ch. Pal	M.A. Ph.D	Asst. Professor (Stage – III)	Full Time	Ethics	17 yrs.	4 (four)	2 (two)	Nil	Nil	-	-
Dr. Arup Jyoti Sarma	M.A. Ph.D	Asst. Professor (Stage –II)	Full Time	Ethics, Western Philosophy	11 yrs.	2 (two)	4 (four)	Nil	Nil	04	1
Dr. Bhupesh Debbarma	M.A. Ph.D	Asst. Professor	Full Time	Philosophy of Culture and Religion, & Ethics,	11 yrs.	-	4 (four)	Nil	Nil	-	-
Dr. Sindhu Poudyal	M.A. Ph.D	Asst. Professor	Full Time	Contemporary Western Philosophy	8 yrs.	-	2 (two)	Nil	Nil	-	-

<sup>\*</sup>Must be mentioned



2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

#### 2.1 Books:

Main Author	Co- Authors	Title	Local/ National/ International	Publishers	Year (2020-21)	ISBN
Dr. Bimal Chandra Pal	Dr. Sreela Sen	An Ethical Outlook of Bertrand Russell	National	Eastern Book House Publishers (India), Guwahati-1 January, 2021	Jan. 2021	978 93 90434 56 5
Dr. Arup Jyoti Sarma	None	Rawls' Idea of a Liberal Self: A Communitarian Critique	National	Springer (JICPR)	2020	2363- 9962

2.2 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020- 21)	ISSN/ ISBN/ DOI	Page No.
Dr. Arup Jyoti Sarma		Global   Pandemic and Few Intriguing Philosophical Questions	International	Keanean Journal of Arts	Vol. VIII No.1	2021	ISSN 2348- 1110	180- 81

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conference/ Seminar/ Workshop attended					
Ivallic	Research Scholar	International	National	Institution Level			
Dr. Mohan Debbarma	Teacher	-	03(three)	02			
Dr. Bimal Chandra Pal	Teacher	-	2 (two)	02			
Dr. Arup Jyoti Sarma	Teacher	-	01 (one)	01			
Dr. Bhupesh Debbarma	Teacher	-	03(three)	01			
Dr. Sindhu Poudyal	Teacher	-	5(five)	02			
Shantaraj Debbarma	Research Scholar	-	15 (Fifteen)	-			
Nitish Debbarma	Research Scholar	2	2 (two)	2			



# 4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
	(1) NIT, Agartala, Tripura	(1) 1 <sup>st</sup> to 5 <sup>th</sup> February, 2021	(1) Faculty Development Program (FDP) on the topic "Data Science with Machine Learning and Python" organized by Computer Science and Engineering Department, NIT, Agartala, Tripura, under the aegis of AICTE Training and Learning	(1) "Understanding Human Values and Ethics in Human Life"
Dr. Mohan Debbarma	(2) Ram Krishna Mahavidyalaya, Kailashahar, Tripura	(2) 22 <sup>nd</sup> – 23 <sup>rd</sup> Feb. 2021	Academy (2) ICPR sponsored Online Periodic Lecture on "Indian Knowledge System and Philosophy of Man, Environment and Sustainable Development" Organised by Dept. of Philosophy, Ramkrishna Mahavidyalaya, Kailashahar, Tripura.	(2) "Understanding Indian Knowledge System with Special Reference to the Nyaya Philosophy"
	(3) Govt. Degree College, Kanchanpur	(3) 31.10.2 020	(3) National Webinar on "Educational Ethics in the Philosophy of Wittgenstein" (A Series of Way of Life), Govt. Degree	(3) "Wittgenstein's Philosophy of Language"
	(4) Govt. Degree College, Kamalpur, Tripura	(4) 7 <sup>th</sup> September, 2020	College, Kanchanpur, Tripura (4) National Webinar on "Dr. B.R. Ambedkar on Freedom, Equality, Fraternity, Justice and its Relevance in Present Indian Society" Organised by Dept. of Philosophy, Govt. Degree College, Kamalpur	(4) "Dr. B.R. Ambedkar's Concept of Equality and Justice"
Dr. Bimal Chandra	(1) Dept. of Philosophy, Ramkrishna Mahavidyalaya, Kailashahar, Tripura.	(1) 22 <sup>nd</sup> - 23 <sup>rd</sup> Feb. 2021	(1) ICPR sponsored Online Periodic Lecture on "Indian Knowledge System and Philosophy of Man, Environment and Sustainable Development" Organised by Dept. of Philosophy, Ramkrishna Mahavidyalaya, Kailashahar, Tripura.	(1) "Knowledge and Liberation in Indian Thought"
Pal	(2) Department of Philosophy, Govt. Degree College, Gandachhera, Tripura	(2) 29 <sup>th</sup> June, 2021	(2) Webinar on Socio-political Philosophy of M.K. Gandhi and Dr. B.R. Ambedkar	(2) "Ethics and Society in Gandhian Philosophy"
Dr. Arup Jyoti Sarma	St. John College, Dimapur, Nagaland	14 <sup>th</sup> August, 2020	St. John College	Tagore's Philosophy
Dr. Bhupesh Debbarma	(1) Department of Philosophy, Ramakrishna Mahavidhyalay a, Kailashahar, Tripura  (2) Department of Philosophy, Govt. Degree College, Gandacherra,	(1) 22 <sup>nd</sup> & 23 <sup>rd</sup> Feb. 2021 (2) 29 <sup>th</sup> June, 2021	(1) Two days periodic lecture on "Indian Knowledge System and Philosophy of Man, Environment and Sustainable Development" Sponsored by Indian Council of Philosophical Research (ICPR), Govt. of India, Ministry of Human Resource Development. (2) Webinar on Socio-political Philosophy of M.K. Gandhi and Dr. B.R. Ambedkar	(1) "Anthropocentrism Vs. Bio-centrism: A Difference of Value"  (2) "Dr. B.R. Ambedkar on Ideal Society with reference to Annihilation of Caste"
	Tripura			

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	(1) Chanakya	(1) 1 <sup>st</sup> and	(1) Purvottar Parisamvad – 3	(1) "New Education
	Varta,	2 <sup>nd</sup> July,		Policy and Job
	Guwahati	2020		Opportunities
				amongst Youths with
				special reference to
				North East India"
	(2) St. Joseph	(2) 5 <sup>th</sup> Dec.	(2) Ethical issues related to the	(2) "Intellectual
	University,	2020	Intellectual Property Rights in Faculty	Property Rights"
	Nagaland		Development Programme (FDP) on	
Dr. Sindhu			"Intellectual Property Rights"	
Poudyal	(3) Department	(3) 15 <sup>th</sup> -	(3) ICPR sponsored National Seminar	(3) "Indian
	of Philosophy,	17th		Knowledge System
	Gujarat	March,		as an Alternative to
	University,	2021		Sustainable
	Ahmedabad			Development"
	(4) Darshan	(4) 19 <sup>th</sup> 21 <sup>st</sup>	(4) Endowment Lecture in MP and	(4) "Meaning of Ethics
	Parishad	March,	Chhattisgarh	and Well-being: An
	Adhiveshan,	2021.		Infinite Responsibility
	Rewa, Madhya			for the Other."
	Pradesh			

5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of Scholars	Par time/ Full time	Research topic	Name of Guide	Registered/ Theses submitted/ Awarded
Rakhi Sutradhar	Full time	"A Study of Social Welfare with special reference to Raja Rammohan Roy and Swami Vivekananda"	Dr. Mohan Debbarma	Awarded
Arambam Gracy Devi	Full time	"Impact of Changing Human Values on the Changes in Nature with special reference to Manipur: A Post Independence Study"	Changes in Nature with special reference to Dr. Monan	
Parimal Nama Das	Part time	"A Socio-Philosophical Study on Equality and Justice as in the Thoughts of M.K. Gandhi and B.R. Ambedkar"	Dr. Mohan Debbarma	Awarded
Biswajit Debnath	Full time	"John Passmore on Environmental Ethics : A Critical Study"	Dr. Bimal Chandra Pal	Awarded
Acchiya Begam	Part time	"Women's Dignity as in the Thoughts of M.K. Gandhi and Iswarchandra Vidhyasagar"	Dr. Bimal Chandra Pal	Awarded
Shantaraj Debbarma	Part time	To be decided	Dr. Bhupesh Debbarma	Registered (Writing Synopsis)
Gobinda Bhattacharya	Full time	To be decided	Dr. Arup Jyoti Sarma	Registered (Writing Synopsis)
Nitish Debbarma	Part time	To be decided	Dr. Bhupesh Debbarma	Registered (writing Synopsis)
Apu Das	Part time	To be decided	Dr. Bhupesh Debbarma	Registered (writing Synopsis)
Shyam Sundar Sarkar	Part time	To be decided	Dr. Sindhu Poudyal	Registered (writing Synopsis)
Abu Sayem Siddiquee	Part time	To be decided	Dr. Sindhu Poudyal	Registered (writing Synopsis)
Madan Kumar Tripura	Full time	To be decided	Dr. Mohan Debbarma	Registered (attending Ph.D Course Work)

Nimai Sarkar	Full time	To be decided	Dr. Mohan Debbarma	Registered (attending Ph.D Course Work)
Prabir Tripura	Part time	To be decided	Dr. Mohan Debbarma	Registered (attending Ph.D Course Work)

## 6. Outreach Footprint of the Department:

## 6.1 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Dr. Mohan Debbarma	Indian Philosophical Congress Centre for Studies in Humanities	Life Membership
Dr. Bimal Chandra Pal	Indian Philosophical Congress	Life Membership
Dr. Arup Jyoti Sarma	Indian Philosophical Congress, Indian Council of Philosophical Research	Life Membership
Dr. Bhupesh Debbarma	Indian Philosophical Congress (IPC)	Life Membership
Dr. Sindhu Poudyal	Indian Philosophical Congress (IPC) MP and CG Darsan Parisad, Akhil Bharatiya Darsan Parisad Mahi	Life Membership

## 6.2 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Arup Jyoti Sarma	Research Methodology and Ethics: Plagiarism Issues, Reference Management Tools and Altmetrics	Information and Library Network (INFLIBNET) Control Guirat	•	
		centre, Gujrat		
Dr. Sindhu Poudyal	Online Faculty Development Program Title: Universal Human Values for DEEKSHARAMBH (Student Induction Program)	NIT, Patna	7 days	23-27 November 2020

- 7. Major thrust areas of research: Indian Philosophy, Western Philosophy, Ethics, Philosophy of Culture and Religion.
- 8. New initiatives/Innovations: CBCS introduced from July 2016 and revised and expansion of CBSC syllabus (i.e. 20 papers in MA program) in 2020.
- 9. On-going Research Projects in 2020-21: 1 (one)

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Arup Jyoti Sarma	-	Indian Council of Philosophical Research, New Delhi	Kant's Moral Faith	1.5 Lakhs	1.35 Lakhs received previous year	2 years

# DEPARTMENT OF PHYSICAL EDUCATION

Head of the Department : Dr. Sudip Das

Year of Establishment : 2011

Programmes on offer : M.P.Ed, PhD and Elective Course

Intake capacity : M.P.Ed (40), PhD (16), Elective Course (30)

#### Major achievements/ Vision of the Department:

Department of Physical Education focuses on the development of overall personality of the students: physical, social, mental, and intellectual. Programs within the department are interdisciplinary by nature and combine the field's education and social sciences. The department is dedicated to provide a high quality Teacher Education program and career preparation with the idea of excellent teaching, being the central to our Vision and Mission.

Department of Physical Education aims to provide academic programs in physical education, health, fitness, training, yoga, outdoor recreation and healthy society to our Country. Our vision is also to include a Research Program, health/wellness promotion, leadership training program and certificate programs in coaching, fitness and yoga.

### 1. Faculty Members:

					rch/ job		i.D ance	The	ster esis ance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Prasanta Kumar Das	M.P.Ed, MPhil, NET, PhD Diploma in Coaching Basketball	Associate Professor	Full Time	Sports Training, Measurement Evaluation, Exercise Physiology	18	01	06	-	-	1	-
Dr. Sudip Das	M.P.Ed, NET, PhD	Assistant Professor	Full Time	Sports Training, Exercise Physiology,	20	00	04	-	-	-	-
Dr. Krishnendu Dhar	M.P.Ed, MPhil, NET, PhD	Assistant Professor	Full Time	Sports Biomechanics, Exercise Physiology	10	01	04	-	-	-	-
Dr. Sanjib Kumar Bhowmik	M.P.Ed, MPhil, NET(JRF), PhD, D.Y.Ed, CCSI	Assistant Professor	Full Time	Health, fitness, Yoga, Sports Psychology	12	01	04	-	-	-	-

<sup>\*</sup>Must be mentioned



- 2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only
- 2.1. Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020- 21)	ISSN/ ISBN/ DOI	Page No.
Shome Kishan	Dr. Sudip Das (Reference Auth)	Assessment of Nutritional Status of B.Ed & D.El.Ed Students in Tripura	International	The Online International Inter disciplinary Research Journal. Journal no- 46964	Volume -10,	July 2020	ISSN 2249- 9598,	124- 128
Singh Pawan Kumar	Dr. Sudip Das (Reference Auth)	Assessment of Body Mass Index of Tribal Students in Tripura	International	Online International Interdisciplinary Research Journal, July 2020 Special Issue	Volume -10	July 2020	ISSN 2249- 9598,	119- 123
Sharma Bhartendu	Dr. Sanjib Kumar Bhowmik (Reference Auth)	A comparative effect of yogic practices and brisk walking on high density lipoprotein of middle- aged men	National	Kala Sarovar (UGC Care Group-1 Journal)	Vol-24 No.02 (I)	April – June 2021	ISSN: 0975- 4520	95- 98
Singh S. Premananda	Dr. Sanjib Kumar Bhowmik (Reference Auth)	Effect of Visuo-Motor Behavior Rehearsal on enhancing Mental Toughness of Soccer Players	National	Rupkatha Journal on Interdisciplinary Studies in Humanities	Volume 12, Number 5, 2020	Octob er 17, 2020	E- ISSN 0975- 2935	

3. Conference /Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conferen	ce/ Seminar/ Work	shop attended
Name	Research Scholar	International	National	Institution Level
Sudip Das	Teacher	-	National	State
Prasanta Kumar Das	Teacher	-	National	State
Prasanta Kumar Das	Teacher	International	-	State
Krishnendu Dhar	Teacher	International Webinar	-	Central
Krishnendu Dhar	Teacher	-	Training Prog.	State
Krishnendu Dhar	Teacher	-	FDC	Central
Sanjib Kumar Bhowmik	Teacher	-	FDC	Central
Sanjib Kumar Bhowmik	Teacher	International Webinar	-	State
Sanjib Kumar Bhowmik	Teacher	-	National	Central
Sanjib Kumar Bhowmik	Teacher	International Webinar	-	State
Sanjib Kumar Bhowmik	Teacher	International Webinar	-	Central

4. Invited as Visiting Faculty/ Talks Delivered by faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Organization	Title of Invited talk
Krishnendu Dhar	West Bengal	17 <sup>TH</sup> Sept.2020	Suri Vidyasagar College, Birbhum, WB	Basic Concepts on Biomechanical Analysis on Track Field Events
Krishnendu Dhar	West Bengal	7 <sup>™</sup> August 2020	Dwijendralal College, Kalyani, WB	Effect of Nutrition, Physical Activity & Yogic practice on Fitness & Wellness during Covid-19 Pandemic,
Dr Sanjib Kumar Bhowmik	Tripura University	21 <sup>st</sup> June, 2021	Department of Physical Education	Benefits of yoga
Dr Sanjib Kumar Bhowmik	Swami Vivekananda Mahavidyalaya	21 <sup>st</sup> June, 2021	Department of NSS and Human Physiology	Yoga and Health Benefit
Dr Sanjib Kumar Bhowmik	Khejuri College, Purba Medinipur and Indian Yoga Association	16 <sup>th</sup> August 2020	Khejuri College, Purba Medinipur, WB	Practical aspect of yoga for promotion of personal health
Dr Sanjib Kumar Bhowmik	MBB College, Tripura	29 <sup>th</sup> & 30 <sup>th</sup> July, 2020	Department of Physical Education	"Impact of physical education on students" Wellbeing and academic success in higher education
Dr Sanjib Kumar Bhowmik	KV, Raighar Chattisghar	17 <sup>th</sup> December, 2020	KVS Regional Office Raipur	Conceptual knowledge of yoga for school teacher
Dr M. Nodiyachand Singh	Tripura University	21 <sup>st</sup> June, 2021	Department of Physical Education	Yoga for Wellness

5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year 2020-21:

Name of Scholars	Part time/ Full Time	Research topic	Name of Guide	Registered/ Theses submitted/ Awarded
Bhartendu Sharma		A Comparative Effect of Yogic Practice and Brisk Walking on Selected Biochemical Parameters of Middle Aged Men	Dr. Sanjib Kumar Bhowmik	Awarded
Amit Dhar		Comparative Study of selected Anthropometric and Psychological variables of North Eastern region University Football Players	Dr. Prasanta Kr. Das	Awarded

- 6. Outreach Footprint of the Department:
- 6. A. Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duratio n	Title	Refresher / Orientation Courses / Seminar/ Conference/Workshops/ Symposia Lecture/ Talk	International / National	No. of Participant s
1.	12 <sup>th</sup> April to 18 <sup>th</sup> April, 2021	7 days	Workshop on Yogasana	Workshop	-	30
2.	17 <sup>th</sup> June to 20 <sup>th</sup> June 2021	4days	Yoga for Global Peace	Essay Competition	-	40
3.	17 <sup>th</sup> to 20 <sup>th</sup> June 2021	4days	Yoga Asana	Yoga Performing Competition	-	45
4.	21 <sup>st</sup> June 2021	Whole day	Observance of International Day of Yoga	Lectures	-	80

## 6. B. Membership in Professional / Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Dr. Krishnendu Dhar	International Society of Sports Biomechanics	Member

## 6. C. Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Dr. Krishnendu Dhar	FDC	Tripura University	14days	From 1 <sup>st</sup> December to 14 <sup>th</sup> December 2020

- 7. Major thrust area of research: Physical Fitness, Exercise Physiology, Sports Psychology, Sports Biomechanics, Sports Training and Techniques, Anthropometry, Health and Wellness and Yoga.
- 8. New initiatives/Innovations:
  - 1. International level outdoor Synthetic Basketball Courts under construction.



## 9. A. Major Instruments available in the Department:

SI No.	Instruments	SI No.	Instruments	SI No.	Instruments
1	Body Composition Analyzer	11	Harpen Skinfold Caliper	21	Stadiometer
2	Lactate Analyzer	12	Back/Leg Dynanomter	22	Metronome
3	Metabolic Analyzer	13	Hand Grip Dynanometer (Analog)	23	Handy cam
4	Peak flow meter		Hand Grip Dynanometer (Digital)	24	Digital Still Camera
5	Dry Spirometer	15	Depth Perception apparatus	25	Projector
6	Glucometer	16	Finger Dexterity	26	P.A System
7	Haemometer	17	Mirror Tracer	27	TV LED
8	Automatic Blood Pressure Machine	18	Reaction Time Apparatus	28	Bone Density Caliper
9	Sphygmomanometer	19	Hand Steadiness Apparatus	29	Sliding Caliper
10	Treadmill	20	Memory Drum	30	Spreading Caliper

# 10. Details of Student's Placement known to the Department:

Name	Sex M/ F	Category (GEN/ ST/SC/ OBC/MIN) [give asterisk * for PwD]	Name of the Organization/ Dept.	Designation	Examination Body	Name of the Examination
Kishan Shome	M	GEN	Bhavans Tripura Teacher Training College	Assistant Professor	Bharatiya Bidhya Bhavan	Direct Interview
Prasenjit Debnath	M	OBC	Govt. Degree College, Dharmanagar	Asst. Professor	Govt. Degree College, Dharmanagar	Direct Interview
Maosumi Bhowmik	F	OBC	MBB College	Asst. Professor	MBB College, Agartala	Direct Interview
Rinki Paul	F	GEN	ISV Mahavidalaya	Asst. Professor	ISV Mahavidalaya, Belonia	Direct Interview
Nabanita Bhardhan	F	GEN	RKM Mahavidalaya	Asst. Professor	RKM Mahavidalaya, Kailashar	Direct Interview
Paritosh Das	M	SC	Kendra Vidyalaya, Ambassa	Physical Education Teacher	Kendra Vidyalaya, Ambassa	Direct Interview
Jimi Debbarma	F	ST	Kendra Vidyalaya, Shantirbazar	Yoga Teacher (adhoc)	Kendra Vidyalaya, Salbagan	Direct Interview
Silpi Laha	F	GEN	D.A.V Public School	PRT-PET	Regional Office, DAV Institutions, ODISHA	Direct Interview
Pinkar Sharma	М	GEN	Shemford Futuristic School, Jorhat, Assam	PGT-PET	Shemford Futuristic School, Jorhat, Assam	Direct Interview

Prince Upadhaya	М	GEN	RKM, Vidalaya	TGT-PET	RKM, Vidalaya, Amtali	Direct Interview
Priyanka chetry	F	GEN	KISS, KIIT, Bhubenswar	TGT-PET	KISS, KIIT, Bhubenswar, Odisha	Direct Interview
Niladri Bhowmik	M	GEN	ABPS, Bhubeneswar	TGT-PET	ABPS, Bhubeneswar, Odisha	Direct Interview

## 11. Any other achievements:

- 1. Organized various sporting Events in the session
- 2. Conducted one week Workshop on Meditation as a part of celebrating of International Day of Yoga.
- 3. Observance of International Day of Yoga at  $21^{st}$  June 2021.

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#### **DEPARTMENT OF POLITICAL SCIENCE**

Head of the Department : Prof. Alak Bhattacharya

Year of Establishment : 1994

Programmes on offer : IMD, M.A., PhD

Intake capacity : M.A.: 80, IMD: 20 EWS: 10

## Major achievements/ Vision of the Department:

The Department was established in 1994. The curriculum of the Masters Degree focuses on the study of Political theory/ thought, Comparative Politics, International Relations, Public Administration, Developmental Studies, Research Methodology, Indian Politics etc. The program is designed to enhance theoretical understanding relating to political processes in the contemporary socio-economic and institutional order and to develop methodological skills. The Department also emphasizes the study of North East India.

## 1. Faculty Members:

,	n J) Lest/		В	of search/ ce	Ph Guid		Master Thesis Guidance				
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Alak Bhattacharya	M.A., Ph.D.	Professor	Full time	Political Thought, Politics and Development	19	-	04	-	-	-	-
Dr. Chandrika Basu Majumder	M.Phil, Ph.D	Professor	Full time	Refugee Studies	38 years	01	04	-	-	-	-
Dr. Kashinath Jena	Ph.D	Professor	Full time	Globalization, Intellectual Property Rights	34 Years	-	08	-	-	-	-
Dr. Gautam Chakma	Ph.D.	Associate Professor	Full Time	Population Displacement in the Context of South Asian Economic and Institutional Order	34	02	03	-	-	-	-
Dr.Vanlalmuana Darlong	MA, PhD	Assistant Professor	Full time	Public Administration, Development Studies	14	-	01	-	-	-	-
Dr.Biplab Debnath	M.PHIL, Ph D	Assistant Professor	Full time	International Relations	11	-	01	-	-	-	-
Anindya Sarkar	MA, NET	Assistant Professor	Full time	Indian Politics	5 years	NA	NA	08	08	NA	NA

<sup>\*</sup>Must be mentioned



2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

## 2.1 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ International	Publishers	Year (2020- 21)	ISBN	Page No.
Biplab		The	C. B.	Indian Foreign	National	Bharti	2020	978-	90-
Debnath		Security	Bhange,	Policy and		Publishers,		93-	95
		Dimensions	Arvind	Contemporary		New Delhi		89657-	
		of India's	Kumar	Security				49-4	
		Foreign	& Ajay	Challenges					
		policy	Kumar						
		towards							
		Myanmar							
Biplab	-	The China	N. H.	International	National	Authors	2020	978-	15-
Debnath		factor	Lashkar	Relations:		Press,		93-	21
		India's Act		Emerging		New Delhi		90459-	
		East Policy		Issues				62-9	

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Confe	rence/ Seminar/ W	orkshop attended
Name	Research Scholar	International	National	Institution Level
Chandrika Basu Majumder	Teacher	02	04	01
Biplab Debnath	Teacher	03	-	-
Anindya Sarkar	Teacher	-	01	-
Vanlalmuana Darlong	Teacher	-	03	-
Komal Khandelwal	Research Scholar	08	18	-
Ajit Mitra	Research Scholar	0	3	0
Ashutosh Kumar Tiwari	Research Scholar	0	2	1
Hamtha Mukholee	Research Scholar	2	3	1
Harsangnir Halam	Research Scholar	0	2	1
Ashraful Islam	Research Scholar	0	1	0
Kshetrimayum Mylodee Devi	Research Scholar	0	1	0
Devid Brahma	Research Scholar	0	1	0
Sumon Ali	Research Scholar	0	2	0

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Biplab	Virtual	17.10.2020	Asian Confluence,	Voices from North Eastern States:
Debnath			Meghalaya	Development, Prosperity and the
				Neighborhood post-COVID
Biplab	Virtual	15.01.2021	Tuljaram Chaturchand	Middle Powers and the Asian Security Order
Debnath			College, Pune	



Anindya	Virtual	24-25.08.2021	National Institute of	Resource person on collating Political
Sarkar			Educational Planning Science Resources for Teachers in I	
			and Administration	Education
Vanlalmuana	Virtual	26.07/2020	ASHA, Tripura	Resource person on 'Living with Covid-19
Darlong				Pandemic & beyond'

# 5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year 2020-21:

Name of Scholars	Par time/ Full time	Research topic	Name of Guide	Registered/ Theses submitted/ Awarded
Kshetrimayum Myleodee Devi	Full Time	Migrants and Ethnic politics: A case study of Imphal East and West districts in Manipur	Dr. Gautam Chakma	Completed Course Work
Ashraful Islam	Full Time	To be decided	Prof. Chandrika Basu Majumder	Completed Course Work
Devid Brahma	Full Time	The question of ethnicity in Assam: A case study of the Bodos	Dr. Gautam Chakma	Completed Course Work
Komal Khandelwal	Full Time	India's Foreign Policy towards Pakistan in the Context of Cross-Border terrorism: An Analysis of the Post-Uri Attack Period	Dr. Biplab Debnath	Completed Course Work
Hamtha Mukholee	Full Time	To be decided	Dr. Gautam Chakma	Completed Coursework
Ajit Mitra	Full Time	To be decided	Prof. Alak Bhattacharyya	Completed Coursework
Harsangngir Halam	Full Time	To be decided	Prof. Alak Bhattacharyya	Completed Coursework
Aushtosh Kumar Tiwari	Full Time	To be decided	Prof. Chandrika Basu Majumder	Completed Coursework
Nilakshi Das	Part- Time	To be decided	Prof. Alak Bhattacharyya	Exempted from course work
T. Lektkholal Haokip	Part time	An impact of digitalization in socio economy, political and education in Manipur	Dr. Vanlalmuana Darlong	Exempted from course work
Sumon Ali	Full Time	To be decided	Prof. Alak Bhattacharyya	Completed Coursework
Vanlalmuana Darlong	Part time	Tribal Development and Administration with special reference to health sector in Tripura	Prof. Alak Bhattacharyya	Awarded
Dipikanta Chakraborty	Part time	Strategic Importance of Tripura from the mirror of India's Bangladesh Policy	Prof . Chandrika Basu Majumder	Awarded
Lipika Roy	Full Time	Women in Ethnic Conflict Situation: A Study of the Bodo Women in Kokrajhar District of Assam	Dr. Gautam Chakma	Awarded
Rajasree Debbarma	Full Time	Empowerment of Tribal Women in Tripura: A Study of Sipahijala District	Dr. Gautam Chakma	Awarded

## 6. Outreach Footprint of the Department:

## 6.1 Membership in Professional / Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Prof. K. N. Jena	Indian Political Science Association Life Member	
Duef Alek Dhettechemie	Indian Political Science Association	Life Member
Prof. Alak Bhattacharya	West Bengal Political Science Association	Life Member

Gautam Chakma	Assam Political Science Association	Life Member
Gautaiii Ciiakiiia	Northeast Political Science Association	Life Member
Biplab Debnath	nath Indian Political Science Association Life Member	
Biplab Debnath	International Political Science Association	Global South Member
Biplab Debnath	Indian Association of Asian and Pacific Studies	Yearly Member
Anindya Sarkar	Indian Political Science Association	Life Member

## 6.2 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Biplab	Refresher Course on Research	HRDC, University of	15 Days	4-18 August,
Debnath	Methodology for Faculty of Social Sciences	Hyderabad. (Attended Online)		2021

## 7. Major thrust areas of research:

Public Administration, Indian Politics, Politics in Northeast India, International Relations.

8. New initiatives/Innovations:

Introduced the Friday Lecture from the year 2019 series in the department where experts from within the university and outside are invited every Friday to deliver a lecture and interact with students on issues of political importance.

9. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

Name of	Name of other Universities /	Callaboration on Project	Year
Teacher	Institutes / Industry	Collaboration on Project	(2019-20)
Biplab	Indian Council of World	Collaboration on a book project titled "External	2020
Debnath	Affairs (ICWA), New Delhi	Dimensions of Security in Northeast India".	

# 10. Awards/Medals/Honours# (State/National/International level) received by the students during the academic year 2020-21:

Name of Students	Name of Awards/ Medals/ Honours	Date of Awards/ Medals/ Honours	Awarding Agency/ Institution	Remarks
Harsangngir Halam	East Zone Inter University Football Competition	October , 2018	Sambhalpur University	Participated
Sumon Ali	Senior Research Fellowship(SRF), UGC-MANF	24/05/2021	UGC, Ministry of Education	Upgraded from JRF to SRF(Maulana Azad National Fellowship Scheme, UGC)

# In case of sports, inter university, zonal may also be considered.

## **DEPARTMENT OF PSYCHOLOGY**

Head of the Department : Prof. Nutankumar S. Thingujam

Year of Establishment : 2011

Programmes on offer : MA Psychology and PhD Psychology

Intake capacity : 20 + 2 for MA Psychology and As per UGC Rule for PhD Psychology

### Major achievements/ Vision of the Department:

a) Establishment of Departmental Library;

b) Setting up advanced psychological testing lab;

c) Setting up advanced experimental psychological lab;

d) Establishing computer lab;

e) Production of employable students;

f) Collaboration with reputed foreign and national institutions;

g) International research publication with impact factor;

h) Increase in faculty strength;

i) Establishment of UGC-SAP in near future; and

j) Planning for UGC-Centre of Advanced Study (CAS).

1. Faculty Members:

			/		arch/	Ph Guida		The	ster esis ance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Prof. Nutankumar S. Thingujam	PhD	Professor	Full time	Emotion in Social Psychology and Organization al Psychology	19		07		8	680	13
Dr. Rajesh Ganesan	M. S. (ISA), Ph. D. (Psy.)	Assistant Professor	Full time	Behaviour modification	19	7	2	30+	9	9	2
Dr. Anjana Bhattacharjee	Ph.D. in Applied Psychology	Assistant Professor	Full time	Clinical Psychology and Positive Psychology	Teaching 13 years Research 16 years	5	3		9	108	6

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:



## 2.1 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ International	Publishers	Year (2020- 21)	ISBN	Page No.
Dr. Anjana Bhattacharjee	Tatini Ghosh	Work Life Balance: The Need of the Millenium	Dr. Debarshi Mukherjee Dr. Mahasweta Saha	Purvottaran - The Rise of North East: Paradigms of Development in the VUCA World	International	Bloomsbury	2020	978 939 051 3017	165- 177

## 2.2 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020- 21)	ISSN/ ISBN/ DOI	Page No.
Samuel F. Acuff, The University of Memphis, USA	Nutankumar S. Thingujam	Reinforcer Pathology of Internet-Related Behaviors Among College Students: Data From Six Countries	International	Experimental and Clinical Psycho- pharmacology (American Psychological Association) Impact factor:	Online First (Pre- print)	April 2021	DOI http:// dx.doi. org/10 .1037/ pha00 00459	Onli ne First
Ivan Das	Dr. Anjana Bhattacharjee	Factor Structure of the Updated Illinois Rape Myth Acceptance Scale in the Indian Context	International	Psychological Thought	14	2021	2193- 7381	56- 73
Ivan Das	Dr. Anjana Bhattacharjee & Papri Dutta	Stress And Ways Of Coping Among Tribal Post- Graduate Students: A Comparative Study	National	Shodh Sanchar Bulletin: An International Multidisciplinary Quarterly Bilingual Peer Reviewed Refereed Research Journal	40	2020	2229- 3620	96- 102
Rebeka Debbarma	Chandrika Basu Majumdar & Anjana Bhattacharjee	Internally displaced persons and mental health issues: A review analysis	National	Indian Journal of Health and Wellbeing	12(2)	2021	Online ISSN: 2321- 3698, Print ISSN: 2229- 5356	171- 176
Dr. Anjana Bhattacharjee	Tatini Ghosh	Suicide Among Youths – Identifying Risks and Protective Factors: A Review Analysis.	Tripura University	SARASWAT: The Tripura University Research Journal (STURJ)	1(1)	2020	-	114- 130

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Ipshita Ghosh	Anjana Bhattacharjee & Santanu Ghosh	Dental Anxiety and its correlation with perceived stress: A study on dental patients of Tripura	National	Indian Journal of Psychology and Education	11(1)	2021	2231- 1432	93- 96
Santanu Ghosh	Anjana Bhattacharjee	Pattern of internet use, anxiety, and depression among professional students of Tripura, India: an analysis	National	Open Journal of Psychiatry & Allied Sciences, Epub	Decem ber	2020	2394- 2053	
Ivan Das	Dr. Anjana Bhattacharjee	Aggression among young adults: does cyber pornography affect?	National	Journal of the Social Sciences	48(3)	2020	1549- 3652	
Ivan Das	Dr. Anjana Bhattacharjee	Rape myth acceptance and its role in violence against women: A review	Tripura University	SARASWAT: The Tripura University Research Journal (STURJ)	1(1)	2020		99- 113

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conference/ Seminar/ Workshop attende		
Name	Research Scholar	International	National	Institution Level
Prof. Nutankumar S. Thingujam	Professor	-	1	-
Dr. Anjana Bhattacharjee	Assistant Professor	3	3	5
Ivan Das	Research Scholar	1	1	-
Tatini Ghosh	Research Scholar	4	1	-

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Dr. Anjana Bhattacharjee	Nepal (International Webinar)	26 june 2021	Psychdesk Foundation	Drug Addiction Among Youths: Consequences and Prevention
Dr. Anjana Bhattacharjee	Nepal (International Webinar)	28 june 2021	Psychdesk Foundation	Basic Skills of marital counseling (marital obliged couple)
Dr. Anjana Bhattacharjee	USA (International Webinar)	31 may, 2021	LONGDOM GROUP, Longdom Conferences	Youth Suicide Understanding Risk Factors



Dr. Anjana Bhattacharjee	LONGDOM GROUP USA, Longdom Conferences (International Webinar)	7 may, 2021	LONGDOM GROUP, Longdom Conferences	Prevention of Depression Among Youth
Dr. Anjana Bhattacharjee	Dhaka, Bangladesh (International Webinar)	19 <sup>th</sup> and 20th February, 2021	Department of Computer Applications, Nandha Arts and Science College, Erode & Professional Institute of Business, Bangladesh Professional Institute of Business,	Re-opening of Educational Institutions Issues and Challenges
Dr. Anjana Bhattacharjee	Dhaka, Bangladesh (Online International Workshop)	7 <sup>th</sup> and 8 <sup>th</sup> February, 2021	Professional Institute of Business,	Emotional Intelligence and Assertiveness: The Regimented Bund
Dr. Anjana Bhattacharjee	Dhaka, Bangladesh (Online International Workshop)	13 <sup>th</sup> September, 2020	Professional Institute of Business,	Teen Suicide Understanding
Dr. Anjana Bhattacharjee	Dhaka, Bangladesh (Online International Workshop)	16 <sup>th</sup> August, 2020	Professional Institute of Business,	Improving Classroom Climate
Dr. Anjana Bhattacharjee	Nepal (International Webinar)	9 September 2020	Organized by The School of Psychology Nepal (TSOP) Association of Psychologists in Nepal (APN) Nasirullah Psychotherapy Unit (NPU) Dhaka University. Bangladesh	Suicide Among Youth: Understanding Risk Factors and Prevention
Dr. Anjana Bhattacharjee	Dhaka, Bangladesh (Online International Workshop)	8 <sup>th</sup> August, 2020	Professional Institute of Business,	Importance of Positive Psychological Approach
Dr. Anjana Bhattacharjee	Dhaka, Bangladesh (Online International Workshop)	22 <sup>nd</sup> to 28 <sup>th</sup> July, 2020	Professional Institute of Business,	Sampling Techniques and Variables
Dr. Anjana Bhattacharjee	Dhaka, Bangladesh (Online International Symposium)	21 <sup>st</sup> July, 2020	Professional Institute of Business,	Issues and Challenges of Mental Health during COVID19 pandemic
Dr. Anjana Bhattacharjee	Dhaka, Bangladesh (Online International Workshop)	15 <sup>th</sup> July, 2020	Professional Institute of Business,	Self-Motivation and Stress Management

Dr. Anjana Bhattacharjee	Dhaka, Bangladesh (International Webinar)	1 <sup>st</sup> July, 2020	Bangladesh School Psychology Society	Needs for School Psychology in Bangladesh
Dr. Anjana Bhattacharjee	New Delhi (National Webinar)	20 <sup>th</sup> January, 2021	National Federation for communal harmony and All India Womens Conference	Spirituality and Wellbeing: The Regimented Bond
Dr. Anjana Bhattacharjee	Maharashtra (National Webinar)	29 <sup>th</sup> November, 2020	Forum for fast justice, Mumbai and National Federation of Societies for Fast Justice	Victims Protection and Rehabilitation
Dr. Anjana Bhattacharjee	New Delhi (National Webinar)	03 June, 2021	Swadeshi Jagaran Manch	Corona Pandemic: Mental Health Problems and Prevention
Dr. Anjana Bhattacharjee	New Delhi (National Webinar)	20 June, 2021	Swadeshi Jagaran Manch	Post Covid Complications and Management
Dr. Anjana Bhattacharjee	Kolkata	24 <sup>th</sup> July, 2020	AcharyaPrafulla Chandra College, Kolkata	Psychological Wellbeing During the Pandemic Strategies and Challenges
Dr. Anjana Bhattacharjee	Tripura	25 May, 2021	KDT Singh Police Training Academy	Psycho process and rehabilitation of child victims' conflict with law
Dr. Anjana Bhattacharjee	Tripura	18 <sup>th</sup> to 22 <sup>nd</sup> January, 2021	KDT Singh Police Training Academy	States of women in India
Dr. Anjana Bhattacharjee	Tripura	14 <sup>th</sup> November, 2020	All India Radio	How to deal with Children
Dr. Anjana Bhattacharjee	Tripura	23 February, 2021	TSR 5 <sup>TH</sup> BN	Stress Management
Dr. Anjana Bhattacharjee	Tripura	19 <sup>th</sup> June, 2021	TSR 8 <sup>TH</sup> BN	Stress Management

# 5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of	Parties of			Registered/
Name of	Par time/	Research topic	Name of Guide	Theses submitted/
Scholars	Full time			Awarded
Sophia	Full time	Measurement of compassion in Indian	Prof. Nutankumar	Yet to registered
Akoijam	ruii tiirie	context	S. Thingujam	ret to registered
Pampak	Full time	Emotional and Social Network Profiles	Prof. Nutankumar	Yet to registered
Khumukcham	ruii tiirie	of Juvenile Delinquents in Manipur	S. Thingujam	ret to registered
		MINDFULNESS BASED YOGA TRAINING		
Diturni Cogni	Part time	FOR THE ENHANCEMENT OF	Dr. Daiach Canacan	Dogistored
Rituraj Gogoi Part	Part time	ACHIEVEMENT MOTIVATION AMONG	Dr. Rajesh Ganesan	Registered
		THE SENIOR SECONDARY STUDENTS.		

nual Report 2020-2021	
	4

Rajkumari Linthoisana	Full time	To be decided	Dr. Rajesh Ganesan	Admitted
Dr. Nabanita Banik	Part time	Depression and its Correlates: A Psychological Study on Pregnant Women of Agartala	Dr. Anjana Bhattacharjee	Awarded
Dr. Santanu G hosh	Part time	Patterns of Internet Use and Its Relation to Personality Trait, Perceived Stress, Anxiety and Depression Among Professional Students of Tripura	Dr. Anjana Bhattacharjee	Awarded
Mr. Ivan Das	Full time	Attitude Towards Rape Myths Among Young Adults: The Roles of Loneliness, Rejection Sensitivity, Sexual Desire, Personality and Online Pornography Usage	Dr. Anjana Bhattacharjee	Admitted
Miss Tatini Ghosh	Full time	Predictors of Suicidal Ideation Among Youths of Tripura	Dr. Anjana Bhattacharjee	Admitted
Miss Moutushi Bhowmik	Full time	To be decided	Dr. Anjana Bhattacharjee	Admitted

## 6. Outreach Footprint of the Department:

6.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/ Workshops/ Symposia Lecture/ Talk	International/ National	No. of Participants
1	19 <sup>th</sup> October, 2020	2 hours	Webinar on Stress Management in COVID-19 Pandemic Times	Webinar		Around 70
2	24 <sup>th</sup> March, 2021	2 hours	"Heart it Out: Managing Exam Blues"	Workshops		Around 100
3	26 <sup>th</sup> June, 2021	2 hours	International Day Against Drug Abuse and Illicit Trafficking	Awareness Program		Around 100
4	30 <sup>th</sup> September, 2020	2 hours	Mindful Way of Authentic Happiness	Webinar		Around 50
5	31 <sup>st</sup> August, 2020	2 hours	Effect of Covid-19 on Adolescents: Some Psychological Challenges	Webinar		Around 50
6	10 <sup>th</sup> October, 2020	2 hours	Emotional and Psychological Wellbeing of Students	Webinar		Around 50

## 6.2 Interaction with Industry/ NGO/ Govt. Organization: (For Faculties)

SI. No.	Faculty Names	Name of Industry/ NGO	Location of Industry	MOU Signed? (Yes/No)	Any Grant Received? (If yes value in Lakhs)	Student Placed? (If yes,Specify Number.)
1.	Prof. Nutankumar S. Thingujam	Modern Psychiatric Society	Narsinghgarh, Tripura	No	No	No
2.	Dr. Rajesh Ganesan	Manodarpan	Delhi	PSYCHOSOCIAL SUPPORT TO STUDENTS, THEIR FAMILIES AND TEACHERS.	NA	NA
3.	Dr. Anjana Bhattacharjee	Modern Psychiatric Society	Narsinghgarh, Tripura	No	No	No

#### 6.3 Membership in Professional/Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Prof. Nutankumar S. Thingujam	International Society for Research on	Full Mambarship
Prof. Nutalikullar 5. Hilligujalli	Emotion, Washington	Full Membership

## 6.4 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date	
Dr. Rajesh	PEDAGOGICAL PREACTICES OF ONLINE			ост. 7 то ост.	
Ganesan	NEW INDIA UNDER	(JOINTLY ORGANIZED BY TRIPURA,	5 DAYS	11, 2020.	
Gallesall	EDUCATION POLICY, 2020.		11, 2020.		
Dr. Baiach	ONLINE TRAINING	ONLINE		16 FEB. 2021 TO	
Dr. Rajesh Ganesan	PROGRAMME ON ACADEMIC	ALIGARH MUSLIM UNIVERSITY,	7 DAYS	22 FEB. 2021 10	
Gallesall	LEADERSHIP	ALIGARH.		22 FEB. 2021.	

## 7. Major thrust area of research:

-Emotion research, mental health and behavior modification.

## 8. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

Name of Teacher	Name of other Universities /	Collaboration on Project	Year
Name of Teacher	Institutes / Industry	Collaboration on Project	(2020-21)
Prof. Nutankumar S. Thingujam	Washington University at St. Louis, USA	Emotional voice prosody	1
Prof. Nutankumar S. Thingujam	Stockholm University, Sweden	Emotional voice prosody	1
Prof. Nutankumar S. Thingujam	The University of Memphis, USA	Behavioral Economics	1

#### 9. Any other achievements:

- a) Professor Nutankumar S. Thingujam attended BOS meeting as external examiner of the Amity Institute of Behavioral and Allied Sciences, Mumbai in July 2020.
- b) Professor Nutankumar S. Thingujam attended BOS meeting as external examiner of Mizoram University in May 2021.
- c) Professor Nutankumar S. Thingujamattended selection committee meeting as a member at Rajiv Gandhi University, Arunachal Pradesh in April 2021.

- d) Professor Nutankumar S. Thingujam served as external examiner for PhD thesis evaluation of Gauhati University, Guwahati in March 2021.
- e) Professor Nutankumar S. Thingujam served as external examinerfor PhD thesis evaluation of University of Calcutta, Kolkata in May 2021
- f) Professor Nutankumar S. Thingujam served as external examiner for PhD thesis evaluation of University of Mumbai, Mumbai in June 2021
- g) Dr. Anjana Bhattacharjee acted as the external examiner for the viva-voce (online) for practical examination of MSc. (Clinical Psychology) Semester 4 of 2019-2021 batch of Amity Institute of Behavioral and Allied Sciences, Maharashtra on 5/5/2021.

#### **DEPARTMENT OF RURAL MANAGEMENT & DEVELOPMENT**

Head of the Department : Dr. Arobindo Mahato

Year of Establishment : 2006

Programmes on offer : Integrated Master Degree (IMD), Masters in Rural Studies (MRS)

and Ph.D. in Rural Management & Development.

Intake capacity : IMD – 20, MRS – 40 and 10 percent EWS (44)

## Major achievements/ Vision of the Department:

A professional approach is the need of the hour rather than the traditional bureaucratic approach to address the issues related to the rural development. In this direction, Tripura University launched One-year Post Graduate Diploma in Rural Development (PGDRD) IN 2004. The programme was launched mainly to equip rural areas with Development Professionals. Subsequently, PGDRD Program has been upgraded to a Two-Year Masters Degree Programme, known as Masters of Rural Management and Development in 2006. Now it has become Masters of Rural Studies. In 2019 the bachelor degree programme, through IMD has been started with a nomenclature of Bachelor Rural Studies (BRS). The department emphasizes on shaping Rural Development Professionals who will be equipped with a mindset to think globally and act locally, to ensure their intervention in a relevant, appropriate, modern and right manner.

### 1. Faculty Members:

		ntract*		hing/ ience	hing/ ience Ouio		Mas The Guid	esis			
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Arobindo Mahato	Ph.D	Assistant Professor	Full time	CSR, livelihood, trade, Entrepreneurship/development	16	03	03	65	06	10	02
Dr. Samrat Goswami	Ph.D.	Assistant Professor	Full time	Economic valuation of Natural Resources, Research Methods, Macroeconomic Issues	14	0	04	65	07	08	03
Ms. Sudipta Das	Ph.D. (Pur- suing)	Guest Teacher	Guest	Entrepreneurship Development	02	NA	NA	15	06	0	0
Mr. Tanmoy Acharjee	M.A	Guest Teacher	Guest	NA		NA	NA	-	07	-	-

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:



## 2.1 Books:

Main Author	Co- Authors	Title	Local/National/ International	Publishers	Year (2020- 21)	ISBN
Dr. Arobindo	Nil	The Glory of Tourism	National	Penster	2020	978-81-
Mahato		in Tripura		Publication, India		943072-0-4

## 2.2 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ Inter- national	Publishers	Year (2020 -21)	ISBN	Page No.
Saoni Bhatta- charjee	Dr. Samrat Goswami	Formalising Unorganise d MSME Sector: The Need of the Hour	Dr. Aunesha Saha, Dr. Gokul Acharjee, Dr. Sujoy Hazari, Dr. Niharika Singh, Dr. Debanjan Nag,	Entrepren eurial Challenge s during Covid-19	-	Global Vision Publishing Home	2021	973- 93- 9042 3- 43-2	406- 423

# 2.3 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings / Magazine	Volume	Year (2020 -21)	ISSN/ ISBN/ DOI	Page No.
Dr. Mrinal Kanti Deb	Dr. Arobindo Mahato	Determinants of Livelihood Choices Among Kuki Tribes in Tripura: An Empirical Analysis	National	Journal of Rural and Industrial Develop- ment	8	2020	ISSN No.: 2321- 1873	25- 32
Miss Sudipta Das	Dr. Arobindo Mahato	Entrepreneurship Development of Tribal Women through Self-Help Groups (SHGs) for Economic Empowerment in Tripura	International	WHJJ Journal	Vol-XVI, Issue-XII	Dece mber, 2020	ISSN No.: 1001- 1749	1418 - 1431
Miss Ankita Paul	Dr. Arobindo Mahato	Teenage Pregnancy as a challenge to reach the Sustainable Development Goal: with special Reference to west & Khowai District of Tripura	National	Journal of Interdiscipli nary cycle research	Vol-XII, Issue-IX	Septe mber, 2020	ISSN No.: 0022 -1945	140- 159

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3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/Research	Number of Conference/ Seminar/ Workshop attended				
ivairie	Scholar	International	National	Institution Level		
Dr. Arobindo Mahato	Teacher	-	2	-		
Miss Sudipta Das	Research Scholar	-	2	-		
Miss Ankita Paul	Research Scholar	-	1	-		
Mr. Manish sarkar	Research Scholar	-	-	-		

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

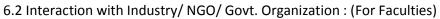
Name	Place	Date	Institutions/ Universities	Title of Invited talk
Dr. Arobindo Mahato	NIRD & PR, Gwahati, RUDSETI, Agartala, SIPARD	-	4	-
Dr. Samrat Goswami	ATALFDP	11/09/2020		Data Visualization and Presentation: Some Probability Distribution.
Miss Sudipta Das	Research Scholar	-	2	-
Miss Ankita Paul	Research Scholar	-	1	-

5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of	Par time/	Decearch tonic	Name of Guide	Registered/Theses	
Scholars	Full time	Research topic	Name of Guide	submitted/ Awarded	
Dr. Mrinal	Full Time	Migration from Bangladesh and Its Impact Dr. Ar		Awarded	
Kanti Deb	ruii Tiitie	on Rural Livelihood in North East India	Mahato	Awarueu	
Ms.	Full Time		Dr. Arobindo	Dursuing Coursework	
Ankita Das	ruii Tiitie	-	Mahato	Pursuing Coursework	

- 6. Outreach Footprint of the Department:
- 6.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

				Refresher / Orientation		_
SI.	Date	Duration	Title	Courses / Seminar/	International/	No. of
No.	Date	Duration	Title	Conference/ Workshops/	National	Participants
				Symposia Lecture/ Talk		
	February		The Problems of			
1.	27 to 28,	2 Days	Educated Tribal Youths	Seminar	National	100
1.	, i		For Securing Job: Special	Seminal	National	100
	2020		Reference to Tribal			
			Youths of Tripura			



SI. No.	Faculty Names	Name of Industry/ NGO	Location of Industry	MOU Signed? (Yes/No)	Any Grant Received? (If yes value in Lakhs)	Student Placed? (If yes,Specify Number.)
	Dr.	Directorate of Panchayat, Rural	Agartala	No	Nil(Students	
1	Arobindo	Development Department of			trained at	
	Mahato	Panchayati Raj, Govt. of Tripura			grassroot Level)	

## 6.3 Interaction with Industry/ NGO / Govt. Organization: (For Students)

Name of the Department	Number of Industry/ NGO visited	Name of Industry/ NGO visited	Purpose of visit			
·		Samaj Shakti Society				
		Manab Kalyan Welfare Society				
		Abhoy Mission				
		Kami HamkraiBodol Society, Watlok tui thu				
		Rudesti Roll				
		Hoda Welfare Society				
		ASHA				
		TATA Trust (CML)				
	21	BI-BA-DI				
Rural		Maharani HirabatiBorok Society	NGO Placement for			
Management		Tripura Council for Child Welfare	14 Days as part of the			
&	21	Rudset Institute	Paper MR – 903C			
Development		Valuntary Health Association of Tripura				
		Outreach & Drop-in-Centre Society for Promotion of Youth and Masses				
		Valutary Health Association of Tripura				
		Samaj Kalyan Samity				
		Village Development Team				
		Tripura AdibashiMahila Samity				
		Nobadigonto Welfare Society				
		Unnati Social Organisations				
		JUST				

## 6.4 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Dr. Arobindo Mahato	<ol> <li>Indian Science Congress Association, Secretariat- Kolkata, India</li> <li>Climate Action Network - South Asia (CANSA), Secretariat- Dhaka, Bangladesh</li> <li>basin-South Asia, sustainable habitat and livelihoods, Secretariat- New Delhi, India</li> <li>Eldis Communities community, IDS Knowledge Services, Falmer, Brighton, East Sussex.</li> <li>Bundelkhand Knowledge Platform, Secretariat- Orchha, MP, India</li> </ol>	Member

## 6.5 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

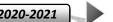
Name	Course attended	Location	Duration	Date
Dr. Arobindo Mahato	Advance Methods in	Tripura University	14 days	11 <sup>th</sup> February,
DI. AIODIIIUO Maliato	Teaching and Research	Tripura University	14 days	2020

- 7. Major thrust area of research: Rural Development, Civilization History of Tripura, Livelihood, CSR,
- 8. New initiatives/Innovations: Centre of Rural Technology Promotion has been established.
- 9. On-going Research Projects in 2020-21:

Principal		Funding		Total Grant	Grant received	Tenure	
Investigator	Co-	· ·	Title of the project	(Rs. in	during the year	(In years	
investigator	Investigator	Agency		Lakhs)	(Rs. in Lakhs)	and months)	
Dr.		ICSSR	Civilizational History of				
Arobindo	Nil	(IMPREST)	Tripura: A Socio-Cultural	8 lakhs	-	2 years	
Mahato		(IIVIPNESI)	TransitionalAnalysis				

## 10. Details of Student's Placement known to the Department:

		Category					
	Sex	(GEN/ST/	PH	Name of the		Examination	Name of the
Name	(M/	SC/ OBC/	(Yes	Organization	Designation	Body	Examination
	F)	EWS/	/No)	/ Institution		Войу	LXamination
		MIN)					
Lalsangzuala	М	ST	No	TRLM	Cluster	_	_
Kaipeng	IVI	31	INO	Coordinator		_	_
Santadoon Poy	М	UR	No	IIFL	Customer Care		
Saptadeep Roy	IVI	UN	INO	IIFL	Executive	-	-
Aparajita	F	UR	No	MC Cupport	Quality Executive		
Chakraborty	F	UN	INO	MS. Support	Quality Executive	-	-
Indiara Datta	F	UR	No	DDUGKY	IT Trainer	-	-
Kishan Debnath	М	UR	No	SIPARD	Internship	-	-
Suham Shil	М	OBC	No	NGO	Coordinator cum		
Sullaili Silli	IVI	OBC	INO	NGO	Volunteer	_	_
Natain Rong	F	ST	No	Forest	Administrative		
Reang	F	31	INO	Department	Officer	-	-
Santo Roy	М	UR	No	Project	Research Assistant	-	-
Lalhruaitluanga	N 4	ST	No	Drainet	Field Investigator		
Reang	М	31	INO	Project	Field Investigator	-	-
Baban Bhowmik	М	UR	No	Project	Research Assistant	-	-
Anjita Reang	F	ST	No	Project	Field Investigator	-	-



#### **DEPARTMENT OF SANSKRIT**

Head of the Department : Dr. Sipra Ray

Year of Establishment : 1977
Programmes on offer : M.A, Ph.D.
Intake capacity : 80 + 8(EWS) =88

#### Major achievements/ Vision of the Department:

The Department of Sanskrit is one of the new departments with which the Centre for Post Graduate Studies in Tripura under the University of Calcutta (C.U.P.G. centre) started functioning in 1977. Cultivation of traditional Sanskrit learning in the princely state of Tripura was in full swing from early times under the royal patronage. With the advent of modern education, Sanskrit has been taught at the undergraduate level in the colleges. The department started teaching Sanskrit in Post Graduate level since 1977. Since its inception the Department of Sanskrit is being run by so many renowned teachers. A number of distinguished guest Lecturers also served the department for a long time. The department with an intake of 80 students offers P.G. Course in Sanskrit in CBCS pattern of syllabus. Research work is also given prime importance in the Department. There are a good number of research scholars working in the department and some visit from outside the institution. Many of them have delivered precious academic lectures. Prof. Ramaranjan Mukherjee, Prof. Dhyanesh Narayan Chakraborty, Prof. Bhavani Prasad Bhattachrya, Prof. Sitanath Acharya, Prof. Asoke Chatterjee, Prof. Karunasindhu Das, Prof. Nabanarayan Bandyopadhyay, Prof. Dipti S. Tripathi, Dr. Kameswar Shukla, Prof. Mrinal Kanti Gangopadyaya, Prof. Ratna Basu, Prof. Prafulla Kumar Mishra, Prof. Nirmalya Narayan Chakraborty, Prof. Girish Nath Thai Prof. Sri Kishore Mishra, Prof. Satyanarayan Acharya, Prof Satyajit Lasyak, Prof. Gopal Chnadra Mishra, Prof. Nalini Devi Misra, Prof. Gopabandhu Mishra, Prof. Aruna Ranjan Mishra are among others.

#### 1. Faculty Members:

			Guest/	æ	of ssearch/ ce		Ph.D Guidance		aster nesis dance		
Name	Qualification (MPhil/Ph.D)	Designation	Full time/ Gud Contract*	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Sipra Ray	M.Phil., Ph.D., NET, LLB	Associate Professor	Full time	Kavya, Modern Sanskrit Literature, Sanskrit & North East	28+/28+	-	02	06	09	1	-
Dr. Debaraj Panigrahi	M.Phil./ Ph.D.	Assistant Professor	Full time	Classical literature/ Grammar etc.	13.2/ 9.8	03	02	06	09	-	-
Dr. Shankar Nath Tiwari	Ph. D., NET	Assistant Professor	Full time	Poetics	10+/9+	-	-	06	09	-	-

## 4

Partha Sarathi Sil	M.Phil	Assistant Professor	Full time	Bhagavad Gītā, Indian Philosophy, Kashmir Saiva Philosophy	07		-	06	09	-	-
Jay Saha	MPhil	Assistant Professor	Full time	Sanskrit Linguistics, Sanskrit and MILs, Sanskrit and North- East	7+	-	-	ı	09	ı	-

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

## 2.1. Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ International	Publishers	Year (2020- 21)	ISBN	Page No.
Dr. Sipra Ray		Influence of Hinduism in the Religious Life of Molsom Communiy of Tripura	Dr. Nurul Islam Dr. AMM Hasan Dr. ArifUddin	Emerging Trends in Scientific Research	International	Akinik Publications New Delhi	2020	978-81- 947692- 5-5	1-8
Dr. Debaraj Panigrahi	-	Bouddhon ki dristi men bhagavan Sri jagannath Dr. Sashibhusan a Mishra : ek paryalochan	Sashibhusan Mishra	Swarna- sundaram	National	The Banaras Mercantile Co. (An International Publisher), Kolkata	July, 2020	978-81- 86359- 88-5	410- 415

2.2. Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposiumetc.:

Main Author	Co- Authors	Title	Local/ National/ Inter- national	Name of the Journal/ Proceedings/ Magazine	Volu me	Year (2020-21)	ISSN/ ISBN/ DOI	Page No.
		Impact of the Sanskrit Rites, Tantric and Magic Spells as revealed in the Chakma Society of Tripura	Inter- national	Samskrita Vimarsa UGC-CARE Listed Peer Reviewed Research Journal	17	2020	ISSN: 0975-1769	9-21
Dr. Sipra		Adhunik sanskrita sahitye Parilakshita Viswabandhutva Bhabana	National	Shodha-Prabha UGC-CARE Listed Peer Reviewed Research Journal	45 Years 1 <sup>st</sup>	2020	ISSN: 0974-8946	68-71
Ray		Arbachin sanskrita sahitya sandarbhe Acharya Satyabratasharti mahabhagasya Rachanasamikshanam	National	Peer Reviewed Journal of Fundamental and Comparative Research (All India Oriental Conference Centenary Celebration 50 <sup>th</sup> Season)	VI	2020	ISSN: 2277-7067	66-73

Dr. Debaraj Panigrahi	-	Tr Tripura Men Pratistit sivaradhana punyakshetra Unakoti	Inter- national	Ananta	Vol. 6, Issue 5, Part G	October, 2020	23947519	407-409
Partha Sarathi Sil	-	Vaidicasamskṛtouarthavyā vasthāyaḥsvarūpam	Inter- national	Vedāñjalī	Vol- 14, Part- III	July- December, 2020	ISSN: 2439-364X	159-163
	-	Yogasādhanāyām Tantramatānusāram Kuṇḍalinyāḥ Svarūpam	Inter- national	Shabdarnav	Vol.12 , Part- III	July-Dec, 2020	ISSN: 2395-5104	180-185
Jay Saha	-	Orientalist Methodology of Rendering Scientific Terminologies in Indian Vernaculars and The Role of Sanskrit: A Study of Nineteenth Century Bengali Scientific Terminologies	Inter- national (UGC CARE Listed)	Dhimahi Research Journal of Chinmaya International ShodhaSansthaan	XI	2020	0976-3066	187-203

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/Research	Number of Conference/ Seminar/ Workshop attended				
TVGITTE	Scholar	International	National	Institution Level		
Dr. Sipra Ray	Teacher	10	30	8		
Dr. DebarajPanigrahi	Teacher	10	43	-		
ParthaSarathiSil	Teacher	05	09	-		
Jay Saha	Teacher	-	02	-		

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter Schooletc.:

<u> </u>	Summer of Whiter Schooletc							
Name	Place	Date	Institutions/ Universities	Title of Invited talk				
	Purulia, West Bengal	4/08/2020	Nistarini College	Adhunik Sanskrit SahityeMahiladerAvadan				
	Falta, South 24 Parganas, West Bengal	20/08/2020	Sadhanchandra Mahavidyalay	Modern Sanskrit Literature				
Dr. Sipra Ray	Purulia, West Bengal	11/08/2020	Sitaram Mahato Memorial College	Adhunik Sanskrit Sahitya				
,	New Delhi	30/10/2020	Sri Shankar Sikshayayatan	Mundukopanisadvimarsha				
	Raipur, West Bengal		Raipur Block Mahavidyalaya	Uttarmahamari Kale Laukik Sanskrit Sahityer Bhumika				
	Amarpur Gomati Tripura	10/10/2020	A M D C Mahayidyalaya	Samskritasamskrityoh Bikase				
	As chief guest	10/10/2020	A.M.B.S. Mahavidyalaya	Tripurayayogadanam				



	Ayodhya, Uttarpradesh	6/12/2020	K.S. Saket P.G. College	Kalidas sahitye niti tattva vimarsa
	New Delhi	08/06/2021	Sanskrit Shauryam	Literature of Acharys Reva Prasad Dwivedi
Du Dahauai	New Delhi	30/08/2020	Sri Shankar Sikhyaayatan	Kathopanisadvimarsha
Dr. Debaraj Panigrahi	Amarpur Gomati Tripura As a speaker	10/10/2020	A.M.B.S. Mahavidyalaya	SamskritasamskrityohBikaseTrip urayayogadanam
	Bankura, West Bengal	09/07/2020	Gobida Prasad Mahavidyalaya	Samskṛta sahitye Chandojiñāsā
	Purulia, West Bengal	12/07/2020	ChittoMahato Memorial College	Indian Culture and Wisdom- As Reflected In Vedas andUpanishads
	Burdwan, West Bengal	20/07/2020	Bejoy Narayan Mahavidyalaya	The Role of Āyurveda in our daily life
	Howrah, West Bengal	29/07/2020	Dhruba Chandra College	Self-realization in different Indian philosophical thought
	Bankura, West Bengal	31/07/2020	Sonamukhi College	Āyurveda and Present Pandemic
Partha Sarathi Sil	Kolkata, West Bengal	26/08/2020	Maharari Kasiswari College	The Sarasvatī : An Unmistakable Symbolic Harmony of Myth and Reality
	Murshidabad, West Bengal	03/09/2020	Subhas Chandra Bose Centenary College	Philosophy, Religion and Culture in Ancient and Medieval
	PaschimMidnapure, West Bengal	06/09/2020	Raja NarendraLal Khan Womens' College	Relevance of Vedic Ideals of Education in Modern Times
	Kolkata, West Bengal	22/09/2020	Sister Nivedita Got. Degree College	Vaidik Vāṅg maye Parives Cetanā
	Bankura, West Bengal	28/09/2020	Saldiha College	Study of the law of Karma as reflected in Rāmāyaṇa, Mahābhārata and Pūrāṇa
	PurvaBardhaman, West Bengal	02/10/2020	Mankar College	Role of Āyurveda in Present Situation
	West Bengal (Online)	15/07/ 2020	Jamini Ray College, Bankura	Linguists and Sanskrit: Heritage and Possibilities
Jay Saha	Madhya Pradesh(Online)	28/07/2020	Indian Painting Department, Sanchi University of Buddhist- Indic Studies, Barla	The Contribution of Sister Nivedita in Indian Art

# 5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of	Par time/	Research topic	Name of Guide	Registered/
Scholars	Full time	Research topic	Name of Guide	Theses submitted/ Awarded
<ol> <li>Kushal Kumar</li> <li>Khajanchi</li> </ol>	Part time	A critical edition of <i>Tarkacandrikā</i> composed by RāmakṛṣṇaBhaṭṭa	Dr. Sipra Ray	Registered
2. Shyamali Roy	Part time	To be decided	Dr. Sipra Ray	Started Course Work

6. Outreach Footprint of the Department:

6.1. Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by theDepartment:

			•			
SI. No	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/ Workshops/ Symposia Lecture/ Talk	International / National	No. of Participants
1	06/10/2020	5 to 6 hours	National Education Policy 2020 & Sanskrit studies in the present scenario	Webinar (Jointly Organized Department of Sanskrit& Sanskrit Bharati Purvottar Bharat)	National	

6.2 Membership in Professional / LearnedSocieties:

	ilp ili Professional / Learneusocieties.	_
Faculty/ Scholar Name	Name of Society	Grade of Membership
	Academic Council T.U.	Member
	Rabindraparisad, Agartala	Life Member
	North-East Indian History Association	Life Member
	All India Oriental Conference	Life Member
Dr. Sipra Ray	Bhandarkar Oriental Research Institute	Life Member
Dr. Sipra Kay	Tripura Bangla SahityaSamskritiSamsad, Agartala	Life Member
	International Association of Sanskrit Studies	Member
	Local Research Committee, Rashtriya Sanskrit	External Member
	Samsthan, Deemed University, Agartala	External Member
	TVSS (Linder ABRSM ), TU	Member
	TVSS (Under ABRSM ), TU	Treasurer
	Purusottam Research Academy of Indology, Puri, Odisha	Founder member
	All India Oriental Conference	Life member
	National Book Trust, New Delhi	Member
Dr. Debaraj	Rabindraparisad, Agartala	Life member
Panigrahi	Vagarthah	Member in Review committee
	Prachiprajna	Member in Editorial Body
	IQAC of Rastriya Sanskrit Sansthan, New Delhi, Ekalavya Campus,	Member
	Agartala, Tripura	Weilibei
	Local Research Committee, Central Sanskrit University, New Delhi,	Member
	Ekalavya Campus, Agartala, Tripura	Wichibei
Partha Sarathi Sil	All India Oriental Conference	Life member
Jay Saha	Rabindraparisad, Agartala	Life member

6.3 Orientation/ Refresher/ Faculty Development Courses attended by Facultymembers:

ois offentation, her esticity bevelopment courses attended by racally members.							
Name	Course attended	Location	Duration	Date			
Dr. Sipra Ray	One week online Faculty Development Program on Soft Skills & Personality Development	Govt. Namada College, Hashangabad (M.P.)	One Week	20/7/2020 to 31/7/2020			
ParthaSarathiSil ( As member of organizing committee )	Making Teaching Effective	Tripura University	Two Week	15-28/03/2021			
Jay Saha	Advanced Research Methodology: Tools and Techniques under Ministry of Education, PMMMNMTT	Teaching Learning Centre, Ramanujan College, University of Delhi	15 days	15-30/04/2021			

7. Major thrust areas of research: Veda, Philosophy, Literature and modern Sanskrit writings.

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#### **DEPARTMENT OF SOCIOLOGY**

Head of the Department : Dr. Sharmila Chhotaray

Year of Establishment : 2011

Programmes on offer : M.A., Ph.D., IMD

Intake capacity : 40 in M.A.

#### Major achievements/ Vision of the Department:

The major thrust of the Department of Sociology, Tripura University is to promote interdisciplinary teaching and research. While emphasizing topics and themes central to the discipline, the Department's teaching and research activities have been oriented towards contemporary questions that have both basic and applied dimensions. From the very beginning efforts have been made to evolve the courses keeping in mind the International, national and regional traditions. The department has been successful in providing resources and encouraging students for pursuing higher education institutions like MPhil and PhD. Department also focuses on the significance of research and the upcoming research methods and has organized first of its kind Qualitative data analysis software workshop on NVivo 12Plus. The department has also contributed in developing Massive Online Open Courses (MOOCs) in different online platforms and will continue to do so in future.

#### 1. Faculty Members:

			ntract*		:hing/ rience	Ph Guid		The	ster esis ance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Sharmila Chhotaray	M. Phil & Ph.D	Asstt. Professor, Stage-II	Full time	Sociology of Popular Culture, Gender & Communication Qualitative, Sociology Gender & Development	10 years 2 months	01	04	-	-	-	-
Ms.Parama Chakma	M.A	Assistant Professor	Full time	Sociology of Tribe & Gender & Society	3 years 6 months	-	-	-	-	-	-
Dr. Surajit Debnath	M. Phil & Ph.D	Guest Faculty	Part time	Indian Society, Gender & Law, & Political Sociology	P.G- 7 years 6 months U.G 1 year	-	-	-	1	1	-

<sup>\*</sup>Must be mentioned

2. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Nui	Number of Conference/ Seminar/ Workshop attended				
Name	Research Scholar	International	National	Institution Level			
Parama				Tripura University in association with Turnitin			
Chakma	Teacher	-	3	India, Anam Zakaria organized by UK Punjab			
CHAKIHA				Heritage Association,			
Dr.Surajit				Rajiv Gandhi University, Swami Vivekananda			
Debnath	Teacher	-	4	Mahavidyalay,BTribal Intellectual Collective			
Debliatii				Indiaanaras Hindu University & University of Delhi.			
				IIPA (New Delhi)			
Lalnundika	Dosoarch Cahalar	1	4	Dept of Sociology, SHRI MRITYUNJAYA COLLEGE			
Darlong	Research Scholar	1	1	OF ARTS AND COMMERCE,			
				DHARWAD-580008 (INDIA)			

3. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of Scholars	Par time/ Full time	Research topic	Name of	Registered/Theses submitted/
Name of Scholars	Par tille/ Full tille	Research topic	Guide	Awarded
Janata Sadhan Jamatia	Full Time	To be decided	To be decided	Ongoing course work

- 4. Outreach Footprint of the Department:
- 4.1. Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/ Workshops/	International/ National	No. of Participants
				Symposia Lecture/ Talk		
	16 <sup>th</sup> Sept 2020	2 hrs	Ethnographic Research in Education' by Dr. Meenakshi Thapan, Director of Rishi Valley Education Centre,Rishi Valley, Andhra Pradesh	Talk	National	40
	8 <sup>th</sup> March 2021	3 hrs	Voices from roots: Tripura Women from varied contexts	Panel Discussion	National	60

4.2. Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Ms.Parama Chakma	Refresher course titled 'Teachers on using ICT for online teaching learning pr ocess' under Pandit Madan Mohan Malviya national mission of teachers and teaching scheme	Faculty development Centre, Tripura University	Two Weeks	from 1st to 14th December 2020





- 5. Major thrust area of research: Migration, Culture, Gender and Identity
- 6. Students qualified in various public examinations in the Academic year2020-21 from the Department:

Name	Sex (M/F)	Category (GEN/ ST/SC/ OBC/EWS/MIN)	PH (Yes /No)	Name of the Organization/Institution	Name of the Examination (NET/SLET/GATE/CAT/SSC/ UPSC/TPSC/Others/SWT*/SWO**
Sara Debbarma	F	ST	No	UGC	NET

<sup>\*</sup>Students Opting for Higher Studies With Examination;\*\*Students Opting for Higher Studies Without Examination.



#### **DEPARTMENT OF TOURISM ADMINISTRATION**

Head of the Department : Dr. Debarshi Mukherjee

Year of Establishment : 2019
Programmes on offer : MTA
Intake capacity : 30

#### Major achievements/ Vision of the Department:

Though Master of Tourism Administration is a new department's everyone know that initially new department face bit of problem, if we simultaneously focus on the opportunities instead of problem, than problems are not constraints for progress. Our vision is to provide in-depth knowledge about tourism sector's among students. Dr. Debarshi Mukherjee sir and Dr. Nirmallya Debnath sir's continuous support and guidance as a faculty my focus is on effectively engaging students ensuring their learning and shaping their development, where future tourism professional are fostered organically. As we all know that tourism industry is a service industry, therefore our mission is to inculcate human value's among student's, love punctuality, obedience, discipline and respect to others.

Department of Tourism has organised 10 days lecture by renowned and experienced faculty member of Bardhaman university, from this 10 days productive lecture students gain overall glimpses of Hospitality and Tourism Industry. Department of Tourism also organised a training programme in collaboration with Tripura Tourism Development Corporation Ltd., where students of MTA has completed training under TTDCL w.e.f 29 <sup>th</sup> January, 2021 to 15 <sup>th</sup> February, 2021 at 31 <sup>st</sup> Industry and Commerce Fair 2021, Hapania, Agartala.

We believe that 'educating the mind without the heart is not education at all'. In nearby days by the guidance of Dr. Debarshi Mukherjee sir's i will incorporated different programmes and organized a life skill day.

#### 1. Faculty Members:

					Teaching/ experience	Ph Guid	i.D ance		ster esis ance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Tea Research/ job exp	Awarded	Existing	Guided	Existing	Citation	H-index
Ms. Juwel	MBA,	Guest	Guest	Tourism	2year	_	_	_	_	-	_
Ghosh	NET	Faculty	Faculty	Marketing	Zycai						

<sup>\*</sup>Must be mentioned

#### 2. Visiting Teacher/ Visiting Fellow:

Name	Topics of courses/lectures taught in	Institution affiliated with
Name	Tripura University	now/previously (if retired)
Dr. Mir Abdul Conbigue	Global Destination of Tourism.	Associate Professor Department of
Dr. Mir Abdul Sophique	Global Destination of Tourism.	Tourism Bardhaman University

## 3. Visiting Faculty from Tripura University to other Institutions/Universities:

Name	From (DD/MM/YY)	To (DD/MM/YY)	Institutions/Universities	Name of the Department / School (where invited as visiting faculty)
Miss Juwel Ghosh	10/04/2021	10/04/2021	Swami Dhananjoy Das Kathia Baba Mission School	Swami Dhananjoy Das Kathia Baba Mission School

## 4. Outreach Footprint of the Department:

## 4.1 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Miss Juwel Ghosh	Faculty development program on the theme Pedagogical Practices Of New India Under National	Webinar jointly organised by Tripura University , Manipur University and	5 days	7-10-2020 to 11- 10-2020
	Education Policy, 2020 Assam University			
Miss Juwel Ghosh	IEEE R10 EA sponsored Capacity Building Workshop, Education 4.0 – Role of educational technologies.	Webinar	3 days	15-07-2021 to 17- 07-2021

## **SCHOOL OF EDUCATION**

Head of the Department : Dr Tinku De (Gope)

Year of Establishment : 2018

Programmes on offer : 4 Years Integrated BA/B Sc B Ed Course and 2 Years B Ed Course

Intake capacity : 50 of each course

## Major achievements/ Vision of the Department:

Development of teaching skill among the student teacher with the proficiency in different subject.

## 1. Faculty Members:

culty)	:		Contract*	eaching/ oerience	Ph Guida		l Thesis l				
Name (All are Guest Faculty)	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/Contract*	Research area	No. of years of Teaching/ Research/job experience	Awarded	Existing	Guided	Existing	Citation	H-index
1. Dr. Amarjit Chanda	Mathematics	Guest Teacher	Guest		2 years	-	-	-	-	1	-
2. Mr. Sreerup Rudra Pal	English	Guest Teacher	Guest		2 years	-	-	-	-	-	-
3. Mr. Jantu Das Up to June 2021	Education	Guest Teacher	Guest		3 years	-	-	-	-	-	-
4. Debasish Debbarma	Education	Guest Teacher	Guest		1 year	-	-	-	-	1	-
5. Rajib Biswas (Up to 27 June 2021)	Education	Guest Teacher	Guest		1 year	-	-	-	-	-	-
6. Jeenti Malakar	Education	Guest Teacher	Guest		6 Months	-	-	-	-	-	-
7. Ramengzaua Kaipeng	Education	Guest Teacher	Guest		6 Months	-	-	-	-	-	-
8. Suman Ali	Political Science	Guest Teacher	Guest (Class hour basis)		2 years	-	-	-	-	ı	1
9. Soumitra Debbarma	History	Guest Teacher	Guest (Class hour basis)		2 years	-	-	-	-	1	-
10.Ms Nivedita Paul	Physics	Guest Teacher	Guest (Class hour basis)		2 years	-	-	-	-	1	-
11. Ms. Barnali Deb	Chemistry	Guest Teacher	Guest (Class hour basis)		2 years	-	-	-	-	1	-
12. Dr. Jatan Debnath	Geography	Guest Teacher	Guest (Class hour basis)		2 years	-	-	-	-	-	-

<sup>\*</sup>Must be mentioned

#### SKILL DEVELOPMENT

#### **B.VOC FILM AND VIDEO PRODUCTION**

Head of the Department : Prof. R. K. Nath

Year of Establishment : 2015

Programmes on offer : B. Voc in Film & Video Production

Intake capacity : 50

#### Major achievements/ Vision of the Department:

The B. Voc Film and Video Production programme was launched in the year 2015. It is a skill based course. This course is equivalent to a bachelor's degree. The course is approved by the UGC and National Skill Development Corporation (NSDC). Media and Entertainment Skill Council (MESC) is the sector skill council for this programme. The course is designed to impart hands-on training to students in the field of film making and video production. The course structure emphasizes on both theoretical and practical aspects of film and video production. The primary goal of the course is to prepare skilled personnel by providing them with the desired level of competence required to get an entry to film industries. Moreover, students can opt for higher studies in film production and appreciation courses such as, film studies, once they complete their B.Voc degree. In addition, the course is very flexible in nature with multiple points of entry and exits. Students can opt out of this course after completion of one year of joining, with a Diploma in Film and Video Production. Those who opt out after completing two years will be awarded with an Advanced Diploma in Film and Video Production, and only after the completion of three years, the students will be awarded with B. Voc in Film and Video Production which is equivalent to a bachelor degree. Along with this, the students are also certified by the Media and Entertainment Skill Council for various Qualification Packs (QPs) with their associative job roles for getting employment in the media and entertainment sectors. This year, a good number of students have qualified for the QP-Script Researcher. The assessment test for Script Researcher was conducted by Media and Entertainment Skill Council (MESC) and B. Voc film and Video Production in Tripura University campus on 21st June 2016. From pass out students 05 nos. are working in media house Rising Tipura, some are working as freelancer for local news channels and some of them have become entrepreneur in media and entertainment.

#### 1. Faculty Members:

				rs of Research/ job	Ph.D Guidance		Master Thesis Guidance				
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Resear experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Tushaar Kanti Acherjee	M.A., Ph.D in Journalism and Mass Communication	Guest Faculty	Guest Faculty	Journalism and Mass Communication	06	NIL	NIL	NIL	NIL	NIL	NIL

Dr. Rajat Deb	Ph.D.	Assistant Professor, Department of Commerce	Guest Faculty	Accounting, Finance & Tax Planning	15	NIL	NIL	NIL	NIL	63	4
Mr. Swarup Nandi	B.Tech, M.Tech(CSE)	Lecturer, Department of IT	Guest Faculty	Information Technology	16	NIL	NIL	NIL	NIL	NIL	NIL
Dr. N. Debnath	Ph.D.	Assistant Professor, Department of Business Management	Guest Faculty	Managerial Responsibility & Media Management and Client Servicing	12.5	NIL	03	06	06	02	01

## 2. Visiting Teacher/ Visiting Fellow:

Name	Topics of courses/lectures taught in Tripura	Institution affiliated with
Name	University	now/previously (if retired)
Mar Commette Doc	Introduction to Rotoscopy VFX & Stereo,	Prime Focus Academy of Media and
Mr. Somnath Das	Introduction to Digital Painting	Entertainment Studies, Mumbai

## 3. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B) (Build up with Project Funding)
02	02	NIL

4. Major Instruments available in the Department: Sony camcorder (2 nos), Cannon 7d body mark ii (2 nos), Canon 5d mark iv body (1 no), Sony handy camera (4 nos),, Lens ef 24mm, Lens ef 24-70mm, Lens ef 16-35 mm, Lens ef 50 mm, Lens ef 85mm, Lens ef 50 mm, Lens ef 55-250 mm, Apple Imac, Workstations (10 nos), Dry cabinet, Seagate hard drive, Camera Tripod, handy camera tripod, Storage device.

#### **FACULTY OF SCIENCE**

#### CENTRES

#### CENTRE FOR BAMBOO CULTIVATION AND RESOURCE UTILIZATION (BCRU)

Head of the Department : Prof. B. K. Datta

Year of Establishment : 2006

Programmes on offer : Post Graduate Diploma (PGD) in Bamboo Cultivation and

Resources Utilization (BCRU)

Intake capacity : 20 seats

#### Major achievements/ Vision of the Department:

The Centre for Bamboo Cultivation & Resource Utilization was established in 2006 with the financial support from National Council of Rural Institutes, MHRD, Govt. of India and Tripura University. The aim of the programme is to run one year Post Graduate Diploma Course on Bamboo cultivation in the North-East region and to motivate students for Self-Employment, as well as to develop essential infra-structure for R & D in Bamboo cultivation and germplasm conservation. Since then one year PG Diploma course of two semesters was successfully run by the faculty members of the Department of Botany along with the support of other faculties of the University and outside the Institution.

## 1. Visiting Teacher/ Visiting Fellow:

Name	Topics of courses/lectures taught	Institution affiliated with now/previously				
Ivallie	in Tripura University	(if retired)				
Prof. S. Sinha	Cytogenetics	Department of Botany, Tripura University				
Prof. R. K. Sinha	Cytogenetics & Plant Tissue Culture	Department of Botany, Tripura University				
Prof. B. K. Datta	Plant Taxonomy & Ecology	Department of Botany, Tripura University				
Prof. A. K. Saha	Mycology and Plant Pathology	Department of Botany, Tripura University				
Dr. S. Basu	Cell Biology	Department of Botany, Tripura University				
Dr. P. Das	Microbiology	Department of Botany, Tripura University				
Dr. J. Choudhury	Rural Entrepreneurship, Capacity Building,	Department of Rural Management and				
	Local Self Government	Development, Tripura University				

2. Major thrust areas of research: Bamboo diversity, Macro and Micro propagation, Forest Ecology.

#### 3. New initiatives/Innovations:

Initiative taken for Introduction of bamboo based skill development course under National Skill Development Mission (NSDM) for registering as Training Provider (TP).

#### 4. A. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B)
03	02	01

#### 4. B. Major Instruments available in the Department:

Laminar Ail Flow, GPS, High Precision Balance 3.UV – VIS Spectrophotometer. Bamboo Stick Polishing Machine, Bamboo Knot Removing and Silver Making Machine, Bamboo Cutting Machine, Bamboo impact splitting machine, GIS laboratory and Projector facilities, other minor bamboo crafting and nursery tools etc.

5. Any other achievements: Total 120 students from different departments opted for BCRU Elective paper during the 2020-2021 academic session.



#### **DEPARTMENT OF BOTANY**

Head of the Department : Prof. B.K. Datta

Year of Establishment : 2007

Programmes on offer : M.Sc., Ph.D., PG Diploma in BCRU

Intake capacity : M.Sc.-31

## Major achievements/ Vision of the Department:

The Department of Botany offers M.Sc. and Ph.D. degree to the qualified students from various states of India. The Faculty members of the Department are actively engaged with researches and presently run six major research projects in collaboration with reputed Central Institutes. In recognition of research output, the Department received grants separately from DST (FIST) and UGC (SAP) for strengthening of infrastructure. Our endeavour is to inventorize and establish a digital database for the phytoresources of Tripura. The venture of the Department is to excel in quality research so as to uplift the Department as Centre of Excellence. The department also runs a skill oriented P.G. Diploma Programme in Bamboo Cultivation and Resource Utilization (BCRU) since 2007.

1. Faculty Members :

	tract		ng/ ince	Ph.D Guidance		Master Thesis Guidance					
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract	Research area	No. of years of Teaching/ Research/job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Prof. Rabindra Kr. Sinha	Ph.D	Professor	Full time	Cytogenetics & Plant Biotechnology	27	04	04	44	01	219	07
Prof. Badal Kumar Datta	Ph.D	Professor	Full time	Taxonomy & Plant Biodiversity	24	10	05	60	07	905	13
Prof. Ajay Krishna Saha	Ph.D	Professor	Full time	Mycology & Plant Pathology	32	07	05	21	10	300	09
Dr. Surochita Basu	Ph.D/ NET	Assistant Professor	Full time	Cell Biology & Cytogenetics	11	1	0	18	6	230	5
Dr. Panna Das	Ph.D/ NET	Assistant Professor	Full time	Microbiology	11	03	03	20	02	255	09

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:



## 2.1 Book Chapters:

Main Author	Co- Author	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ International	Publishers	Year (2020 -21)	ISBN	Page No.
S. Basu	J.S. Reang	Cytotoxicity assessment of Diospyros lanceifolia Roxb. using Allium cepa test.	Anupam Guha	Biological Sciences: Impacts on Modern Civilization, Current and Future Challenges	National	New Delhi Publishers	2021	978- 81- 9474 17- 4-9	167- 175

## 2.2 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ Inter- national	Name of the Journal/ Proceedings / Magazine	Volume	Year (2020 -21)	ISSN/ ISBN/ DOI	Page No.
Karmakar, P.	Jamatia, B., Debnath, S., Das, P., &Saha, A. K.	Bio-Monitoring of airborne fungi and antifungal activity of Clerodendrum infortanum L. against dominant fungi.	Inter- national	Sustainabilit y, Agri, Food and Environmen tal Research	9(2)	2021	ISSN- 0719- 3726	-
Debnath, S.	Chakraborty , G., Dutta, S. S., Chaudhuri, S. R., Das, P., & Saha, A. K.	Potential of Trichoderma species as biofertilizer and biological control on Oryza sativa L. cultivation.	Inter- national	Biotecnologí a Vegetal	20(1)	2020	1609- 1841 (PRINT) / 2074- 8647 (Online)	1-16
Bhattacharya, S	Namasudra, S., Debnath, S., & Saha, A.	Comparative Allelopathic Effects of Two Weed Extracts on Seed Germination and Seedling Growth of Vigna unguiculata (L.) Walp. and Abelmoschus esculentus L.	Inter- national	Defence Life Science Journal	5	2020	ISSN: 24560537	204- 210
Debnath, S.	Upadhyay, R.C., Saha, R., Majumdar, K., Das, P., & Saha, A.K.	A checklist of macrofungi (mushroom) diversity and distribution in the forests of Tripura, India	Inter- national	Journal of Threatened Taxa	12(10)	2020	ISSN 0974- 7907 (Online)	1631 4- 1634 6

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Debnath, S.	Bhattachary a, S.,Das. P., &Saha, A.K.	Cultivation of a wild strain of Schizophyllu m commune on agro-industrial wastes.	Inter- national	KAVAKA	55	2020	Print ISSN, 0379- 5179	77-83
Chakraborty, K.	Das, A. R., Saha, A. K., & Das, P.	A culture based diversity of saprobic fungi associated with leaf litter of Hevea brasiliensis along a chronosequenc e of plantations in Tripura, Northeast India.	Inter- national	Tropical Ecology	61(4)	2020	ISSN: 5643295	468- 474
Debnath, S.	Debnath, B., Saha, R., Dutta, A., Das, P., & Saha, A. K.	Production of Exopolysacchari des (EPSs) and Evaluation of Biological Properties of Pleurotusflabell atus (Berk and Br.) Sacc. 1-11.	Inter- national	Proceedings of the National Academy of Sciences, India Section B: Biological Sciences,	-	2021	ISSN: 0369- 8211E- ISSN: 2250- 1746	-
Bhattacharya, S	Debnath, S., & Saha, A.K.	Diversity of Foliar Endophytic Fungi in Artocarpus heterophyllus Lam. and Citrus reticulata Blanco of Tripura.	Inter- national	Journal of Tropical Life Science	11(2)	2021	ISSN: 2087- 5517E- ISSN: 2527 -4376	-
Karmakar, P.	Sen Gupta, K., Das, P., Bhattachary a, S.G., & Saha, A.K.	Biocontrol and plant growth promoting potential of Trichoderma yunnanense.	Inter- national	Vegetos	-	2021	ISSN 2229- 4473 (Online)	-
Chakraborty, K.	Das, A. R., Saha, A. K., & Das, P.	Phosphate solubilizing bacteria and arbuscular mycorrhizal fungi associated with Hevea brasiliensis under plantations of Tripura, India	Inter- national	Vegetos	-	2021	ISSN 2229- 4473 (Online)	-

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Nath,B	Saha, P.R., Das, A.B.,Jena .,A.N.Sinha, S and Sinha, R.K.S	Morphotaxono mical and karyological study of Gopi banana: an indigenous palatable cultivation variety of Musa x paradisiacal	Inter- national	Vegetos	-	2021	ISSN 2229- 4473 (Online)	http://doi. org/1 0.100 7/s44 2535- 021- 0026 7-1.
Dipan Sarma	B.K. Datta	Plants used for jaundice among the ethnic people of North Tripura district (Tripura), Northeast India	National	The Journal of Indian Botanical Society	101	2021	0019- 4468	82-89
Rashmi Rani	B. K. Datta	Seedling morphology of some medicinal plants of Convolvulaceae of Tripura, Northeast India	National	The Journal of Indian Botanical Society	101	2021	0019- 4468	74-81
Rashmi Rani	B. K. Datta	Phenetic analysis of some medicinal plants of Asteraceae of Tripura, North- east India	Inter- national	Vegetos	34	2021	ISSN 2229- 4473 (Online)	460– 469
Smita Debbarma	Biplab Banik, Koushik Majumdar, B.K. Datta	A new distributional record of Ficus altissima Blume (Moraceae) in Tripura: an occasionally confused fig species with Ficus benghalensis L.	Inter- national	Plant Science Today	7(4):	2020	ISSN: 2348- 1900	658– 662
Smita Debbarma	Biplab Banik, Biswajit Baishnab, B. K. Data and Koushik Majumdar	Diversity and distributon of figs in Tripura with four new additional records.	Inter- national	Journal of Threatened Taxa	12(11)	2020	ISSN 0974- 7907 (Online)	1654 8- 1657 0
S,Basu	K. Tripura	Differential sensitivity of Alliumcepa L. and Vicia faba L. to aqueous extracts of Cascabela thevetia (L.) Lippold	Inter- national	South African Journal of Botany	139	2021	0254- 6299	67-78

S.Basu	R Majumder	Differential cytotoxicity of Melastoma malabathricum L. aqueous extract on root meristem cells of Allium cepa L	Inter- national	Inter- national Journal of Scientific and Innovative Research	8(1)	2020	2347- 2189	24-44
S.Basu	R. Brahma	Chromosomal aberrations in Allium cepa induced by drinking water samples: A case study	Inter- national	International Journal of Geology Earth and Environment al Sciences	10(3)	2020	2277- 2081	100- 108

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conference/ Seminar/ Workshop attended			
Name	Research Scholar	International	National	Institution Level	
Dr S. Basu	Teacher	-	01	-	
Smt. Aparajita Das	Research Scholar	01	-	-	
Smt. Aparajita Das	Research Scholar	-	04	-	
Smt. Panchatapa Bhattacharjee	Student	-	03	-	

4. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of	Par time/	Research topic	Name of	Registered/Theses
Scholars	Full time	nesearch topic	Guide	submitted/ Awarded
Shri Kripamoy Chakraborty	Full time	Study of arbuscular mycorrhizal fungi and phosphate solubilizing bacteria associated with hevea brasiliensis (wild. Ex a. Juss.) Mull. Arg. In tripura, northeast india	Dr P. Das	Awarded
Shri Sanjit Debnath		Studies on nutritional status, antioxidant and antibacterial properties of some wild edible mushrooms of tripura along with protocol development for cultivation	Prof. A.K. Saha	Awarded
Shri Gopal Debnath	Full time	Production of extracellular enzymes by some wild edible mushrooms of tripura and evaluation of their antibacterial activity through synthesis of silver nanoparticles	Prof. A.K. Saha	Awarded

d

Shri Pintu Karmakar	Full time	Diversity, allergenicity and biochemistry of airborne mould spores in outdoor and indoor environments of agartala, tripura	Prof. A.K. Saha	Awarded
Smt. Dipti Das	'   Par time   home gardens of tri		Prof. B.K. Datta	Awarded
Smt. Rashmi Rani	Full time	Seed and seedling morphology and their relevance in identification of some medicinal plants of tripura	Prof. B.K. Datta	Awarded

## 5. Outreach Footprint of the Department:

## 5.1 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
S. Basu	Online Training Program on 'Teaching Effectively'	CALEM, Aligarh Muslim University and PMMMNMTT, Ministry of Education, Govt. of India	7 days	16 – 22 February 2021

## 6. Major thrust area of research:

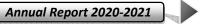
- Phytodiversity, cytogenetics and plant- microbe interactions
- > Bamboo conservation and propagation

## 7. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B) (Build up with Project Funding)
10	02	08

## 8. Major Instruments available in the Department:

- > Zeiss Microscope with photographic attachment
- Inverted Microscope
- > Fluorescence microscope
- > UV-VIS Spectrophotometer
- Nanodrop
- > Thermal Cycler
- > Burkard Volumetric Air Sampler & Anderson sampler
- > Deep freezer (-40 &-80)
- Mili-Q Water Purifier
- Cold Centrifuge
- > Ice Flake Machine
- > Shaker-cum-incubator
- > Vacuum evaporator
- ➤ Gel doc



## 9. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Prof. R. K. Sinha	-	DBT, Govt. of India (Collaborative project)	Genome Characterization of Banana/Plantain Genetic Resources of North-eastern Region and their Utilization in Multicenter Planning for Commercial Improvement	40.30	23.30	2018- 2021
Prof. B. K. Datta	-	Twining, DBT, Govt. of India	Screening of the antileukemic and antioxidant potential of medicinal plants of Tripura: leading to chemical identification of the lead molecules	31.00 lakhs	-	2017- 2020
Prof. B. K. Datta	Dr. Sourabh Deb	DBT, Govt. of India	Bioresources and sustainable livelihood in Northeast India	78.52 lakhs	-	2018- 2021
Prof. B. K. Datta	-	IERP, G.B.Pant National Institute of Himalayan Environment & Sustainable Development, Kosi- Katarmal, Almora- 263643, Uttarakhand	Promotion of Bamboo cultivation through skill development and capacity building training programme for strengthen rural livelihoods options and long term climate change mitigations in Tripura linking Biodiversity Management Committees (BMCs) at the village panchayat levels	14.90 lakhs	-	2018- 2021
Prof. A.K. Saha	Dr. P. Das	IERP, G.B.Pant National Institute of Himalayan Environment & Sustainable Development, Kosi-Katarmal, Almora- 263643, Uttarakhand	Development of protocol along with hands on training for commercial cultivation of Novel wild edible mushrooms of Tripura, North-East India	-	-	2018- 2021
-	Dr P. Das	DBT, Govt. of India	Understanding mechanistic detail of growth promotion and stress tolerance in legume crop by fungal endophytes through secretom and metabolomics study	43.04	28.05	2019- 2022

## 4

## 10. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

Name of Teacher	Name of other Universities / Institutes / Industry	Collaboration on Project	Year (2020-21)
Prof. R. K. Sinha	NBRI, Lucknow & Utkal University, Orissa	Genome Characterization of Banana/Plantain Genetic Resources of North-eastern Region and their Utilization in Multicenter Planning for Commercial Improvement	2018- 2021
Prof. B. K. Datta	Ashoka Trust, Bangalore	Bioresources and sustainable livelihood in Northeast India	2018- 2021
Prof. A.K. Saha	NIPGR, New Delhi	Understanding mechanistic detail of growth promotion and stress tolerance in legume crop by fungal endophytes through secretom and metabolomics study	2019- 2022

## 11. Students qualified in various public examinations in the Academic year2020-21 from the Department:

Name	Sex (M/F)	Category (GEN/ ST/SC/ OBC/EWS/ MIN)	PH (Yes /No)	Name of the Organization/ Institution	Name of the Examination (NET/SLET/GATE/CAT/SSC/ UPSC/TPSC/Others/SWT*/ SWO**
Shri Bhibash Nath	М	OBC	No	Tripura University	NET
Smt. Kanika Tripura	F	ST	No	Tripura University	NET
Shri Devpratim Kotch	М	ST	No	Tripura University	NET
Shri Tuhin Das	М	SC	No	Tripura University	NET, SLET
Shri Sani Das	М	SC	No	Tripura University	NET
Smt. Antara Debnath	F	OBC	No	Tripura University	GATE
Smt. Satarupa Sil	F	OBC	No	Tripura University	GATE
Smt. Kanika Tripura	F	ST	No	Tripura University	GATE
Smt. Puja Rani Saha	F	GEN	No	Tripura University	SLET
Shri Ashok Kumar Sutradhar	М	GEN	No	Tripura University	SLET
Shri Suman Paul	М	OBC	No	Tripura University	GATE

<sup>\*</sup>Students Opting for Higher Studies With Examination;\*\*Students Opting for Higher Studies Without Examination.

## 12. Details of Student's Placement known to the Department:

Name	Sex (M/ F)	Category (GEN/ ST/SC/ OBC/EWS /MIN)	PH (Yes /No)	Name of the Organization/ Institution	Designation	Examination Body	Name of the Examination
Smt. Minakshi Paul	F	GEN	No	School not yet posted	UGT	Government of Tripura	-
Shri Sujoy Chakraborty	М	GEN	No	School not yet posted	PGT	Government of Tripura	-
Dr Aparajita Roy Das	F	GEN	No	B.B.M.C. College, Agartala	Guest Lecturer	Government of Tripura	-
Dr Shukla Bhattacharjee	F	GEN	No	K.N. Mahavidyalaya, Govt. Degree College, Sonamura, Tripura	Guest Lecturer	Government of Tripura	-

liner.	

Dr Sudipta Sinha	F	GEN	No	Swami Vivekananda Mahavidyalaya, Govt. Degree College, Mohanpur, Tripura	Guest Lecturer	Government of Tripura	-
Dr H. Reshmi Singha	F	GEN	No	Ambedkar College, Govt. Degree College, Fatikroy, Tripura	Guest Lecturer	Government of Tripura	-
Dr Sanjit Debnath	М	OBC	No	N.S. Mahavidyalaya, Govt. Degree College, Udaipur, Tripura	Guest Lecturer	Government of Tripura	-
Dr Pintu Karmakar	М	OBC	No	K.N. Mahavidyalaya, Govt. Degree College, Sonamura, Tripura	Guest Lecturer	Government of Tripura	-
Dr Gopal Debnath	М	OBC	No	Swami Vivekananda Mahavidyalaya, Govt. Degree College, Mohanpur, Tripura	Guest Lecturer	Government of Tripura	-
Smt. Somrita Das	F	SC	No	Swami Vivekananda Mahavidyalaya, Govt. Degree College, Mohanpur, Tripura	Guest Lecturer	Government of Tripura	-

# 13. Awards/Medals/Honours\* (State/National/International level) received by the students during the academic year 2020-21:

Name of	Name of	Date of	Augustina Agonou/Institution	Remarks
Students	Awards/Medals/Honours	Awards/Medals/Honours	Awarding Agency/Institution	Remarks
			Biotechnology Industry	
Dr Sanjit	SITARE-GYTI 2020	November 05, 2020.	Research Assistance Council	
Debnath		November 05, 2020.	(BIRAC) set up by Department	-
Debliatii	appreciation award		of Biotechnology (DBT),	
			Government of India	

<sup>#</sup> In case of sports, inter university, zonal may also be considered.

#### Annual Report 2020-2021

Head of the Department : Dr. Sachin Bhaladhare (i/c)

Year of Establishment : 2016

Programmes on offer : Master of Technology (M.Tech.), Doctor of Philosophy (Ph.D.)
Intake capacity : 15 + 2 (EWS) (M.Tech.), Intake capacity for Ph.D. depends on

**DEPARTMENT OF CHEMICAL & POLYMER ENGINEERING** 

availability of the seats under Individual faculty

#### Major achievements/ Vision of the Department:

The primary vision of the department is to become a center of excellence in the science and technology discipline with strong research and teaching environment. The department's efforts are to educate students with conceptual knowledge and technical skills to achieve excellence in academics, industries, and research. To accomplishthe goal, the departmenttimely modifies the academic curriculum and setsup new research areas to meet the challenges of the 21<sup>st</sup> century. Currently, three funded projects (~ 53 lakhs) areongoing in the department, which allows the department to establish new facilities for academics and research. The constant efforts of the faculties to bring new funded projects have enabled the department to setup new research labs and instruments. The students are highly encouraged to take part in conferences, seminars, and competitions. Conducting online classes is one of the significant achievements of the department during the Covid-19 pandemic, which allowed the faculties andthe students to adopt cutting-edge technologies available worldwide. Online classes have become means for the departmental faculties to offer lessons to the students during the pandemic.

#### 1. Faculty Members:

,			.t/		rs of Research/ ence	Guid	n.D lance	The	ster esis ance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Rese job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Sachin Bhaladhare	Ph.D.	Assistant Professor	Full time	Polymer Synthesis, hydrogel and nanogel, semiconductor, organic solar cell	5	-	1	3	1	57	3
Harjeet Nath	M.Tech.	Assistant Professor	Full time	Fluidization, Waste Valorization, Simulation & Modeling	5+	-	-	7	1	94	4

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:



## 2.1 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020- 21)	ISSN/ ISBN/ DOI	Page No.
Sachin Bhaladhare (corresponding author)	Dipankar Das, Priyambada Prakash, Prasanta K. Rout	Synthesis and Characterization of Superabsorbent Cellulose-Based Hydrogel for Agriculture Application	International	Journal	73	2020	DOI: 10. 1002/ star. 2019 00284	190 028 4-93

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Co	nference/ Seminar/ Wor	kshop attended
Ivaille	Research Scholar	International	National	Institution Level
Sachin Bhaladhare	Teacher	-	2	-
Harjeet Nath	Teacher	1	1	-

## 4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Harjeet nath	Malkangiri, Odisha	15/07/2020	ITI Malkangiri Co-organized by Odisha Skill Development Authority on the occasion of World Youth Skill Day 2020	Keep going and do not allow small obstacles to stop you and one day you will be amazed to see your progress
Harjeet nath	Hailakandi, Assam	22/02/2021	S.S. College, Hailakandi, Assam	Recent trends in Basic Science researches in NE India
Harjeet nath	Agartala	19/08/2020	Women's Polytechnic	Home Delivery of Learning during Covid 19: An exploration with reference to Tripura
Harjeet nath	Rourkela, Odisha.	16/06/2021	UtkalmaniGopabandhu Institute of Engineering	Water pollution Scenario and its solution using point-of-source water purifiers
Harjeet nath	Tamil Nadu	18/06/2021	Rajalakshmi Engineering College	Introduction to Chemical Engineering process simulation software Aspen Plus



## 5. Outreach Footprint of the Department:

# 5.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/ Workshops/ Symposia Lecture/ Talk	International/ National	No. of Participants
1.	16- 17th August 2020	2 days	Advances in the field of Chemical & Material Science Research"	Webinar	National	25

## 5.2 Participation in E-Content creation programmes such as e-PG Pathshala, NME-ICT, MOOCs:

SI.	Faculty Names	Title of E-Content	No. of	Available
No. Faculty Names		Title of E-Content	Hours	or Not
		Development of Teacher's e-kit and MOOCS in Four Quadrant	45	-
1	Harjeet Nath	Format of e-content by GAD TLC, University of Delhi under		
		PMMMNMTT scheme of MHRD on 12-20 September 2020.		

## 5.3 Membership in Professional/ Learned Societies:

Faculty/	Name of Society	Grade of	
Scholar Name	r Name		
Harjeet Nath	jeet Nath International Association of Engineers (IAENG -Hong Kong) (Number: 130819)		
Harjeet Nath	Hong Kong Chemical, Biological Environmental Engineering Society (HKCBEES) (Number: 202717)	Member	
Harjeet Nath	The Institution of Engineers (India) (Number: AM170847-6)	Associate Member	
Harjeet Nath	Indian Institute of Chemical Engineers (IICHE)(Number: 49375)	Associate member	
Harjeet Nath	jeet Nath Life Member- Tripura Chemical Society (Number -193)		
Harjeet Nath	Electron Microscope Society of India (Number - LM 1751)	Life member	

## 5.4 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Sachin Bhaladhare	Refresher Course (Online), PMMMNMT	Tripura University	Two weeks	1-14 December 2020
Shri. Harjeet Nath	Online Faculty Development Programme on "E- Learning Platform"	Electronics and ICT Academy IIT Guwahati	7 Days	7-14 September 2020

6. Major thrust area of research: Wastewater Purification, Waste to Energy Using Gasification/Pyrolysis, Soil Amendment Technologies, Simulation and Modeling Using Aspen Plus and CFD Fluent Softwares, Polymer Synthesis, Hydrogels, Nanogels, Semiconductors etc.



- 7. New initiatives/Innovations:
  - Contactless hand sanitizing setup for battling COVID
  - COVID-19 Warbot, am indigenously developed robotic device to support healthcare workers in Hapania COVID Care Center, Agartala.
- 8. Major Instruments available in the Department: Differential Scanning Calorimeter (DSC), Fourier Transform Infrared Spectroscopy (FTIR), Flame Photometer, UV Spectrometer, distillation water setup with chiller, autoclave, High temperature tubular furnace, ultrasonicator bath, vacuum oven, incubator, hot air ovens, shaker, weighing balances, refrigerators, horizontal laminar flow, deep freezer, ultracentrifuges etc.
- 9. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Dr. Sachin Bhaladhare	-	National Mission on Himalayan Studies, Uttarakhand, India	Development of biodegradable superabsorbent hydrogels for agriculture application to contribute water conservation in agricultural fields	31.91	17.95 (1 <sup>st</sup> year) + 7.15 (2 <sup>nd</sup> Year) = 25.1	3 years
Shri. Harjeet Nath	Dr. Ratan Das	DBT NECBH Twinning	Biochars for soil amendment in N.E. India	4.95	1.548 (2nd Installment)	2 years 3 months
Shri. Harjeet Nath	-	MSME, Govt. of India	Entrepreneurial & Managerial Development Support through Incubators for developing the idea "Suitcase Water Purifier" under Tripura University Business Incubator.	16	0	2 years

10. Awards/Medals/Honours# (State/National/International level) received by the Teachers during the academic year 2020-21:

Name of Teacher	Name of Awards/Medals/ Honours	Date of Awards/ Medals/ Honours	Awarding Agency/ Institution	Remarks
Shri. Harjeet Nath	Most Innovative Faculty of the Year Award	12/07/2020	PERFICIO AWARDS 2020, UPACRI 2020 by DHS Foundation, New Delhi, India in collaboration with Campbell University, North Carolina, USA.	-
Shri. Harjeet Nath	Young Scientist Award 2021	21/05/2021	International Scientists Award on Engineering, Science & Medicine) organized by VD Good Professional Organization, Chennai, India	-

# In case of sports, inter university, zonal may also be considered.

## 11. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

Name of Teacher	Name of other Universities / Institutes / Industry	Collaboration on Project	Year (2020-21)
Shri. Harjeet Nath	IIT Guwahati	Biochar for soil amendment in N.E. India	2020-2021
Shri. Harjeet Nath	CSIR CIMFR Dhanbad	Aspen plus and CFD modeling of fluidized bed gasifier	2020-2021
Shri. Harjeet Nath	NIT Agartala	Waste water treatment	2020-2021
Shri. Harjeet Nath	NIT Rourkela	Aspen plus and CFD modeling of fluidized bed gasifier	2020-2021

# 12. Awards/Medals/Honours<sup>#</sup> (State/National/International level) received by the students during the academic year 2020-21:

Name of	Name of	Date of	Awarding	Remarks	
Students	Awards/Medals/Honours	Awards/Medals/Honours	Agency/Institution	Remarks	
Biswajit Sarkar and Tamal Rudra Paul	1st Prize in 4th Students Project Program	5/03/2021	Tripura State Council for Science & Technology	-	

<sup>#</sup> In case of sports, inter university, zonal may also be considered.

### 13. Any other achievements:

An ongoing project on the development of biodegradable hydrogel for agriculture application has been mentioned and published in the newspaper (Amar Ujala) based on the information provided by the funding agency (National Mission on Himalayan Studies, NMHS, Almora, Uttarakhand).



#### **DEPARTMENT OF CHEMISTRY**

Head of the Department : Prof. S. Majumdar

Year of Establishment : 1976 as CUPG Center and from 1987 as a full-fledged Department.

Programmes on offer : i) M.Sc. in Chemistry (four semesters)

ii) Ph.D. Programme in Chemistry

Intake capacity : i) 30 + 3(EWS from 2019) + 2 (University rank holders) = 35

ii) As per UGC norms

#### Major achievements/ Vision of the Department:

The Department of Chemistry was established as "Post Graduate Center" of Chemistry under the University of Calcutta in 1976 at Agartala to cater the need of the local students. In the beginning, the department offered Master's Degree in Chemistry with only Analytical Chemistry as specialization. With the increase in number of faculty and improved infrastructure, specializations in the areas of Inorganic Chemistry, Organic Chemistry and Physical Chemistry were introduced. The Department has the distinction of producing NET/SLET/GATE qualified students every year. The department hosts five faculty members out of ten UGC sanctioned posts engaged in frontier research embracing both basic and applied areas of chemistry. The Department is actively engaged in frontier research activity since its inception and activity has enhanced as financial assistance received from different funding agencies viz.UGC, CSIR, ICMR, DBT and DST etc. as major research projects. The major areas of research interest are in the fields of medicinal plants chemistry, synthetic organic chemistry, synthetic and structural inorganic chemistry, coordination chemistry, quantum chemistry, surfactants and colloids etc. The faculty members publish research papers in reputed International and National Journals. Department of Science & Technology, Govt. of India has sanctioned an amount of Rs.1.98 Crore (2016-2021) to the Department for Purchase of a 400 MHz NMR under the FIST Programme (Level - 1) and NMR instrument has been installed and in operation currently.

#### 1. Faculty Members:

	nc (O	u	iuest/	Guest/ area		Ph Guid		Mas The Guid	esis		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research a	No. of years or Teaching/ Research/job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. M. K. Singh	M. Sc, Ph. D	Professor	Full time	Inroganic chemistry	30 years	nil	02	-	-	184	09
Dr. R. K. Nath	M. Sc, Ph. D	Professor	Full time	Surface Chemistry	Teaching: 26 years.	02	04	-	-	472	13
Dr. R.N. Dutta Purkayastha	M.Sc, Ph.D	Professor	Full time	Synthetic and Structural Inorganic Chemistry	Teaching: 34 years	01	04	-	-	144	07

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Dr. S. Majumdar	M. Sc, Ph. D	Professor	Full time	Synthetic Organic Chemistry, Green Chemistry, Methodology	Teaching: 17 years. Research: 21 years.	nil	08	-	-	862	17
Dr. U. C. De	M. Sc, Ph. D	Assoc. Professor	Full time	Chemistry of Natural Products & Medicinal Chemistry	Teaching: 19 Research: 22 Job: 18.	nil	04	1	1	353	09
Dr. S. Sutradhar	M. Sc, Ph. D	Guest Teacher	Contract	Inorganic Chemistry	Teaching: 3years.	-	-	-	-	-	-

<sup>\*</sup>Must be mentioned

## 2. Visiting Teacher/ Visiting Fellow:

Name	Topics of courses/lectures taught in	Institution affiliated with
Name	Tripura University	now/previously (if retired)
Prof. N. Homendra,	(i) Statistical thermodynamics	
Department of Chemistry	(ii) Irreversible Thermodynamics	-
Manipur University	(iii) Non-equilibrium Thermodynamics	
Dr. S. Chowdhury,	(i) Symmetry & Group Theory	
Department of Chemistry	(ii) Inorganic IR, Raman, mass &	-
GourBanga University	Mossbauer spectroscopy	
Dr. AmitavaShrama		
Department of Chemistry	Quantum Mechanics-I	-
ICFAI University		

- 3. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:
- 3.1 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National / Inter- national	Name of the Journal/ Proceedings/ Magazine	Volu me	Year (2020- 21)	ISSN/ ISBN/D OI	Pag e No.
R. K. Nath	B.Das, A. Baidya, S. Majumder	Dynamic behavior of methylene blue on <i>E. coli</i> K30 capsular polysaccharide using layer by layer self-assembly technique	Inter- national	Surface Review and Letters	28	2021	DOI: 10.1142 /S02186 25X2050 0274	1-12
R. K. Nath	A. Baidya , B. Das, S. Majumder, S. K. Saha, Manoj K. Paul	The unique asymmetric nano-cluster formation by the uneven hockey-stick-shaped mesogen based on 1,3,4-oxadiazole in Langmuir–Blodgett thin film	Inter- national	Journal of Dispersion Science and Technology	-	ONLIN E2020	DOI: 10.1080 /019326 91.2020. 1848584	1-11
R.N. Dutta Purkayastha	K. R. NathBhowmik , P. Paul, D. Dey, M. Bhattacharjee, N. Das, BaptuSaha, S. R.Boruah	Fluoro-metallates: Syntheses, Spectral Characterization of New Mixed-Ligand FluoroManganate(III), Manganate(II) and FluoroZincate(II) Complexes Containing biogenic Co-ligands	National	Journal of Indian Chemical Society	97,	2020	ISSN 0019 4522	1-10

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R.N. Dutta Purkayastha	M. Bhattacharjee, S. R. Boruah, R. Ganguly, D. Maiti, A. Franconetti, A.Frontera, A. M. Kirillov, S.Chowdhury, S. Roy, P. Nath,	Synthesis, characterization, DNA binding ability, in vitro cytotoxicity, electrochemical properties andtheoretical studies of copper(II) carboxylate complexes,	Inter- national	InorganicaCh imicaActa	518	2021	DOI: 10.1016 /j.ica.20 20.1202 35	120 235
S. Majumdar	B. Deb, A. Chakraborty, J. Hussain,	A Task-Specific Ionic- Liquid-Mediated Solvent- Free Protocol for Direct Access to Dimethyl Acetal Protected Benzimidazole 2-Carboxaldehydes.	Inter- national	SynOpen	4	2020	DOI: 10.1055 /s-0040- 1706391	89– 95.
D. K Maiti	S. Debnath, T. Das, T. K. Pati,S. Majumdar,	Metal-Free Indole–Phenacyl Bromide Cyclization: A Regioselective Synthesis of 3,5-Diarylcarbazoles.	Inter- national	Journalof Organic Chemistry	85	2020	Doi: 10.1021 /acs.joc. 0c01670	132 72- 132 79
S. Majumdar	A. Rudra Paul, B. Dey, S. Suklabaidya, S. A.Hussain,	7-Alkoxy-appended coumarin derivatives: synthesis, photo-physical properties, aggregation behaviours and current–voltage (I–V) characteristic studies on thin films.	Inter- national	RSC Advances	11	2021	Doi: 10. 1039/D1 RA0076 2A	102 12- 102 23
S. A. Hussain,	S. Sarkar, H. Banik, S. Suklabaidya, B. Deb, S. Majumdar, P. K. Paul, D. Bhattacharjee,	Resistive switching of tetraindolyl derivative in ultrathin films: A potential candidate for non-volatile memory applications	Inter- national	Langmuir	37	2021	doi:10.1 021/acs. langmui r.0c0362 9	444 9- 445 9
U.C. De.	S. Bhowmik, P. Anand, R. Das, T. Sen, Y. Akhter, M. C. Das	Synthesis of new chrysin derivatives with substantial antibiofilm activity.	Inter- national	Molecular Diversity	25	2021	1381- 1991 (print); 1573- 501X (web)	-
P. Debnath	G. Sahu, U.C. De	Synthesis of functionalized pyrimidouracils by ruthenium-catalyzed oxidative insertion of (hetero) aryl methanols into N-uracil amidines.	Inter- national	Applied Organometal lic Chemistry	35(2)	2021	1099- 0739	282 0- 282 6

4. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conference/ Seminar/ Workshop attended					
Ivallie	Research Scholar	International	National	Institution Level			
Prof. S. Majumdar	Teacher	1	1	1			
Dr. U. C. De	Teacher	1	-	-			
AbhijitRudra Paul	Research Scholar	2	-	-			
Kamal Das	Research Scholar	2	-	-			
Sourava Chakraborty	Research Scholar	2	-	-			
Barnali Deb	Research Scholar	2	-	-			
Samprity Sharma	Student	-	1	-			
NirjubaKalita	Student	-	1	-			
SandeepRajguru	Student	-	1	-			

5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year 2020-21:

Name of Scholars	Par time/ Full time	Research topic	Name of Guide	Registered/Theses submitted/ Awarded
Smt. Nandita Das	Full time	Synthesis, Characterization, Structure and Reactivity Studies on Hetero- ligand Peroxotungsten(VI) Complexes	Prof. R. N. Dutta Purkayastha	Awarded
Smt. Bandana Das	Full Time DST- INSPIRE	Adsorption of Dye and Bio-molecules on to Polyelectrolyte/ Surfactant complex Fabricated by Layer by Layer sequential technique.	Prof. R. K. Nath	Awarded
Sri KartickLal Bhowmik	Part time	Synthesis, Characterization and Application of Conducting Polymer Based Films and Metal oxide nanocomposite	Prof. R. K. Nath	Awarded
Sri Jayanta Bhowmik	Part time	Chemical and Biological Evaluation of Some Indigenous Medicinal Plants	Dr. U. C. De	Thesis submitted
Sri Sukhen Bhowmik	Part time	Synthesis and Biological Evaluation of Some New Chrysin Derivatives	Dr. U. C. De	Thesis submitted
Sri Kamal Das	Full Time (RET)	Studies on the Carbon-Heteroatom bond formation reaction towards synthetically useful organic molecules under mild and eco-friendly conditions	Prof. S. Majumdar	Registered
Mrs. Smritilekha Barua	Full Time (RET)	Synthesis, Structural elucidation and reactivity studies on Molybdenum and Tungsten complexes	Prof. R. N. DuttaPurkayast ha	Registered
Sri Sourav Chakraborty	Full Time (UGC)	Studies on the development of sustainable medium for some Carbon-Carbon bond forming reactions	Prof. S. Majumdar	Registered

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Mrs. Sutapa Deb	Full Time (RET)	An Investigation on the Physico- Chemical Properties of Some Dyes & Other Organic Molecules Assembled in Ultra-Thin Films	Prof. R. K. Nath	Registered	
Mrs. Baranali Das	Full time (RET)	Studies on the synthesis of some biologically relevant heterocyclic compounds	Prof. S. Majumdar	Started course work	
Sri Debabrata Chakraborty	Full time (RET)	To be decided	Prof. R. K. Nath	Started course work	
Samir Debnath	Part time	Synthesis and Biological studies of some Organic Heterocycles	Dr. U.C. De	Started course work	
Rajesh Debnath	Full Time (RET)	Synthesis and Biological studies of some Flavonoids and quinones	Dr. U.C. De	Started course work	

## 6. Outreach Footprint of the Department:

#### 6.1 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Prof. M. K. Singh	Tripura Chemical Society	Life Member
Prof. R. K. Nath	Tripura Chemical Society	Life Member
	Indian Chemical Society	Life member
D. N. Dustte Duskeyseethe	Tripura Chemical Society	Life member
R N Dutta Purkayastha	Meghalaya Science Society	Life member
	Association of Chemistry Teachers	Member
5 ( 6 ) 4 ;	Tripura Chemical Society	Life Member
Prof. S. Majumdar	Indian Association for the Cultivation of Science	Life Member
	Association of Chemistry Teachers	Member
Dr. U. C. De	Tripura Chemical Society	General Secretary
	Indian Association for the Cultivation of Science	Life Member
	Indian Chemical Society	Life Member

- 7. Major thrust areas of research: Synthetic organic chemistry, Green Chemistry, Medicinal Chemistry, Synthetic and structural inorganic chemistry, Surfactants and colloids, thin film and nano science
- 8. New initiatives/Innovations: Established NMR facility through DST-FIST fund
- 9. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B)
Total No. of Lab (A+B)	No. of reaching Lab (A)	(Build up with Project Funding)
05+06 = 11	03 (Laboratories)	
03+00 - 11	02 (Instrument Rooms)	

#### 10. Major Instruments available in the Department:

- i) One Flash Chromatography (Biotage, Sweden, DBT, Govt. of India Funded)
- ii) One UV-Vis spectrophotometer (Hitachi, UH5300, Japan, DBT, Govt. of India Funded)
- iii) One Vacuum Concentrator (Eppendorf, Germany, DBT, Govt. of India Funded)
- iv) UV Vis 02 (Perkin Elmer- Labda- 25 & Shimadzu 1800)
- v) Fluorimeter -01 (Shimadzu RF5000)

## Annual Report 2020-2021

- vi) Magnetic Balance (Sherwood)
- vii) HPLC Dionex
- viii) Cyclic Voltammeter
- ix) LB Film balance (Apex Instrument).
- x) 400 MHZ NMR Spectrometer (Bruker), installed in Central Instrumentation Center, TU.

## 11. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Dr.U. C. De	-	DBT, Govt. of India	Synthesis and characterization of Different Chrysin derivatives followed by Screening of Anti-Obesogenic Activity, Anti-Diabetic Activity InVitro: Assesment of In -Vivo activity with the lead compounds	74.0048	21.5176	Three years

## 12. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

Name of Teacher	Name of other Universities / Institutes /	Collaboration on	Year
	Industry	Project	(2020-21)
Dr. U.C. De	Indian Institute of Chemical biology, Kolkata	DBT, Govt. of India	2020 -

# 13. Students qualified in various public examinations in the Academic year2020-21 from the Department:

Name	Sex (M/F)	Category (GEN/ST/SC/ OBC/EWS/ MIN)	PH (Yes /No)	Name of the Organization/ Institution	Name of the Examination (NET/SLET/GATE/CAT/SSC/ UPSC/TPSC/Others/SWT*/SWO**
Ashish	М	SC	no	IIT Bombay	GATE 2021
Biswas					G/2 1011
			no	Welingkar Institute of	
Debalena Pal	F	Gen		Management and Reaseach	CAT
				Matunga, Mumbai	
Ashish	М	SC	no	IIT Guwahati	Admitted in Ph. D. programme
Biswas	IVI	30			through GATE score

<sup>\*</sup>Students Opting for Higher Studies With Examination; \*\*Students Opting for Higher Studies Without Examination.



#### **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Head of the Department : Dr. Mrinal Kanti Bhowmik, Ph.D (Engg.)

Year of Establishment : 2005

Programmes on offer : M. Tech in Computer Science and Engineering, and Ph.D. in

Computer Science and Engineering

Intake capacity : 15 (AICTE Approved) Intake capacity for M. Tech in Computer

Science and Engineering.

#### Major achievements/ Vision of the Department:

The Department of Computer Science & Engineering started its journey on 19<sup>th</sup> August, 2005 with due approval from AICTE. The department continues to bloom under strict observation of dedicated faculties who have ensured high quality teaching from the beginning of the Department and the collaborative effort of its efficient students. The faculty members from reputed institutes such as Jadavpur University, University of Calcutta, Visva-Bharati University, and Indian Statistical Institution (ISI) Kolkata are invited to conduct the classes and enrich the knowledge of the students. The Department has also organized workshops like MHRD sponsored Global Initiative on Academic Networks (GIANs) on the emerging areas of research. The faculty members of the Department are associated with funded projects from Ministry of Electronics & Information Technology (MeitY), Government of India; Indian Council of Medical Research (ICMR), Government of India; Department of Biotechnology (DBT), Government of India; and Defense Research and Development Organization (DRDO), New Delhi.

## 1. Faculty Members:

		at/			f earch/		n.D lance	Master Thesis Guidance			
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Mrinal Kanti Bhowmik	B.E (CSE), M.Tech (CSE), Ph.D. (Engg.)	Assistant Professor, Stage-II	Full time	Image Processing, Medical Image Processing, Biometrics and Face Recognition.	11+	05	04	87	4	746	14
Dr. Abhishek Majumder	B.E. (CSE), M.Tech (IT), Ph.D.	Assistant Professor, Stage-II	Full time	Witeless ad-hoc network, Wireless Mesh network, IoT, Machine Learning	10+	Nil	4	26	2	364	10

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:



# 2.1 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ Inter- national	Publishers	Year (2020- 21)	ISBN	Page No.
Abira Banik	Abhishek Majumder	QoS Provisioning for Multicast Routing and Channel Assignment in Wireless Mesh Network	Mehdi Khosrow- Pour D.B.A.	Encyclopedia of Information Science and Technology, Fifth Edition	Inter- national	IGI Global	2020	ISBN13: 9781 7998 34793 ISBN10: 17998 34794 EISBN13: 3.ch070	1018- 1036
V. Ramasamy	C. R. Panigrahi, J. L. Sarkar, B. Pati, A. Majumder, M. Rath, and S. L. Peng	Application of Deep Learning Strategies to Assess COVID-19 Patients	Sandeep Kautish, Sheng- Lung Peng, Ahmed J. Obaid	Computational Intelligence Techniques for Combating COVID-19	Inter- national	Springer Link	2021	eBook ISBN 978-3- 030- 68936-0 Hardcover ISBN 978-3- 030- 68935-3 Series ISSN 2522- 8595	27-43

# 2.2 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/Proceedings/ Magazine	Volu me	Year (2020 -21)	ISSN/ ISBN/ DOI	Page No.
Shawli Bardhan	Satyabrata Nath, Tathagata Debnath, Debotosh Bhattacharjee and Mrinal Kanti Bhowmik	Designing of an Inflammatory Knee Joint Thermogram Dataset for Arthritis Classification Using Deep Convolution Neural Network	International	Quantitative InfraRed Thermography Journal (QIRT), Taylor & Francis, Indexed by Science Citation Index Expanded (SCIE), Impact Factor: 1.667		2020	DOI: 10.1080/1 7686733. 2020.185 5390	1-27
Rajib Debnath	Mrinal Kanti Bhowmik	Automatic Visual Gun Detection Carried by A Moving Person	International	Proceedings of 2020 IEEE 15 <sup>th</sup> International Conference on Industrial and Information Systems (ICIIS), IEEE		2020	DOI: 10.1109/I CIIS51140. 2020.934 2681	208- 213
Rajib Debnath	Anu Singha, Biswajit Saha and Mrinal Kanti Bhowmik	A Comparative Study of Background Segmentation Approaches in Detection of Person with Gun under Adverse Weather Conditions	International	Proceedings of 2020 11 <sup>th</sup> International Conference on Computing, Communication and Networking Technologies (ICCCNT), IEEE		2020	DOI: 10.1109/I CCCNT492 39.2020.9 225409.	1-7
Mampi Devi	Abhishek Majumder	Side-Channel Attack in Internet of Things: A Survey	International	In Proceedings of International Conference on Computer Communication and Internet of Things, Tripura University, Springer, Singapore	137	2020	DOI: 10.1007/9 78-981- 15-6198- 6_20	213- 222

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Suyel Namasudra	Rupak Chakraborty, Abhishek Majumder, Nageswara Rao Moparthi	Securing Multimedia by Using DNA-Based Encryption in the Cloud Computing Environment	International	ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM) (Impact Factor: 3.275)	16	2020	DOI: https://do i.org/10.1 145/3392 665	1-19
Rajib Debnath	Mrinal Kanti Bhowmik	A Comprehensive Survey on Computer Vision Based Concepts, Methodologies, Analysis and Applications for Automatic Gun/ Knife Detection	International	Journal of Visual Communication and Image Representation, Elsevier, Indexed by Science Citation Index Expanded (SCIE), Impact Factor: 2.678	78	2021	DOI: https://do i.org/10.1 016/j.jvcir .2021.103 165.	1031 65
Rajib Debnath	Mrinal Kanti Bhowmik	Novel Framework for Automatic Localization of Gun Carrying by Moving Person Using Various Indoor Outdoor Mimic and Real time Views/Scenes	International	IET Image Processing, IET, Indexed by Science Citation Index Expanded (SCIE), Impact Factor: 2.373	14	2021	DOI: 10.1049/i et- ipr.2020.0 706	4663 - 4675
Rajib Debnath	Mrinal Kanti Bhowmik	Deep Classification of Gun Carried by Moving Persons Using Proposed TUVD-CSA Dataset	International	8th International Doctoral Symposium on Applied Computation and Security Systems (ACSS), Springer [In Press]		2021	In Press	In Press
Joy Lal Sarkar	Abhishek Majumder	A new point-of- interest approach based on multi- itinerary recommendation engine	International	Expert Systems with Application (Impact Factor: 6.954)	181	2021	https://do i.org/10.1 016/j.esw a.2021.11 5026	1150 26
Chhabi Rani Panigrahi	Joy Lal Sarkar, BibudhenduPat i, Rajkumar Buyya, Prasant Mohapatra, Abhishek Majumder	Mobile Cloud Computing and Wireless Sensor Networks: A review, integration architecture, and future directions	International	INST ENGINEERING TECHNOLOGY-IET, Willy. (Scopus)	Onli ne First	2021	DOI: 10.1049/n tw2.1201 3	1-21
Arindam Majumder	Abhishek Majumder, Rahul Bhaumik	Teaching—Learning— Based Optimization Algorithm for Path Planning and Task Allocation in Multi- robot Plant Inspection System	International	Arabian Journal for Science and Engineering, Publisher: Springer Berlin Heidelberg (Impact Factor: <b>2.334</b> )	Onli ne First	2021	DOI https://do i.org/10.1 007/s133 69-021- 05710-8	1-23
V Ramasamy	B Gomathy, Joy Lal Sarkar, Chhabi Rani Panigrahi, BibudhenduPat i, Abhishek Majumder	DCQSH: Dynamic Conflict-Free Query Scheduling in Heterogeneous Networks during Emergency	International	Computación y Sistemas (Scopus)	25	2021	ISSN:2007 -9737	117- 128
A Majumder	S Roy	Performance Comparison of Adaptive Mobility Management Scheme with IEEE 802.11s to Handle Internet Traffic	International	In Proceedings of 1st International Conference on Wireless Sensor Networks, Ubiquitous Computing and Applications, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, Springerlink		2021	eBook ISBN 978-981- 16-2919-8 DOI 10.1007/9 78-981- 16-2919-8 Softcover ISBN 978-981- 16-2918-1 Series ISSN 2367- 3370	In press

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3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conference/ Seminar/ Workshop attended			
Ivallie	Research Scholar	International	National	Institution Level	
Mr. Joy Lal Sarkar	Research Scholar	01	-	-	

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/ Universities	Title of Invited talk
Dr. Mrinal Kanti Bhowmik	Agartala- 799004, Tripura (W), India	9 <sup>th</sup> -10 <sup>th</sup> July, 2020	Department of Applied Mathematics, Maharaja Bir Bikram University (MBBU), Government of Tripura	Computer Vision in Degraded Atmospheric/ Weather Conditions, in International Web Conference on Advance Research in Science, Humanities and Social Science (IWCARSHSS 2020)
Dr. Mrinal Kanti Bhowmik	Agartala- 799004, Tripura (W), India	19 <sup>th</sup> -20 <sup>th</sup> July, 2020	Regional Computer Lab, Agartala Regional Centre, Indira Gandhi National Open University (IGNOU), Government of India	Online Education in computer science for remote areas", in WEBINAR: Distance and Online Education in the backdrop of COVID-19: Issues and Challenges

5. Patents Applied for/ Granted:

Name	Title of Patent	Applied/ Granted	Patent No.	Date (Applied/ Granted) (DD/MM/YY)	Licensed or Not
Dr. Mrinal Kanti Bhowmik	System and Method for Detecting Object in Adverse Atmosphere by Restoring Degraded Image in Deep Convolutional Layer	Applied	Application No: 202131002651	20/01/2021	-
Dr. Mrinal Kanti Bhowmik	System and Method for Detecting Object in Adverse Atmosphere by Restoring Degraded Image in Deep Convolutional Layer	Applied	Application No: 202031027352	27/06/2021	-

6. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of	Part time/	Research topic	Name of Guide	Registered/Theses	
Scholars	Full time	nesearch topic	Name of Guide	submitted/ Awarded	
Dr. Usha Rani	Full Time	Analysis of Infrared Breast Thermograms	Dr. Mrinal Kanti	Awarded	
Gogoi		for Abnormality Detection	Bhowmik	Awarueu	
Dr. Kakali Das		Full Time Prediction of Health Abnormalities using		Awarded	
DI. Kakali Das		Thermal Images	Bhowmik	Awarueu	
Dr. Anu	Full Time	Moving Object Detection in Night Vision	Dr. Mrinal Kanti	Awarded	
Singha		widding Object Detection in Night Vision	Bhowmik	Awarueu	



# 7.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

		•	•			
SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/ Workshops/ Symposia Lecture/ Talk	International /National	No. of Participants
1.	27 <sup>th</sup> March, 2021	3 hours	"Earthquake Hazard and Risk Scenario in the Indian Peninsula as estimated using Nonlinear Heuristic Fuzzy Computational Protocol" and "Tripura Oilfield - A Glimpse of its Hydrocarbon Habitat through nonlinear Reservoir Modeling"	Special Lecture	National	50
2.	10 <sup>th</sup> April, 2021	4 hours	A Computer Vision Walk- through in Video Processing and Healthcare	Special Lecture	National	17

# 7.2 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Dr. Mrinal Kanti Bhowmik	IEEE	Senior Member
Dr. Mrinal Kanti Bhowmik	ACM	Member
Dr. Mrinal Kanti Bhowmik	SPIE	Member
Dr. Mrinal Kanti Bhowmik	Institutions of Engineer(IE)	Graduate Member
Dr. Abhishek Majumder	IEI	Associate Member

# 7.3 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Dr. Mrinal Kanti Bhowmik	Teachers on Using ICT for Online Teaching Learning Process	Tripura University (A Central University), Tripura (W), India	Two weeks	1 <sup>st</sup> December 2020 to 14 <sup>th</sup> December, 2020.
Dr. Mrinal Kanti Bhowmik	AICTE Training and Learning (ATAL) Academy Online FDP	Tripura University (A Central University), Tripura (W), India	05 days	18 <sup>th</sup> January, 2021 to 22 <sup>th</sup> January, 2021
Dr. Abhishek Majumder	AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)"	SIKSHA O ANUSANDHAN.	05 days	21 <sup>st</sup> January 2021 to 25 <sup>th</sup> January 2021
Dr. Abhishek Majumder	AICTE Training And Learning (ATAL) Academy Online FDP on "Cyber Security"	Central University of Kerala.	05 days	1 <sup>st</sup> February 2021 to 5 <sup>th</sup> February 2021
Dr. Abhishek Majumder	Online Training Programme on the theme Teaching Effectively	UGC HRDC, Aligarh Muslim University, Aligarh	07 days	16 <sup>th</sup> February 2021 to 22 <sup>nd</sup> February 2021.
Dr. Abhishek Majumder	Effective Teaching	Tripura University	Two weeks	15 <sup>th</sup> March 2021 to 28 <sup>th</sup> March 2021

- 8. Major thrust areas of research:
  - Biometrics and Face Recognition
  - Information Security
  - Computer Vision in Data Science
  - Medical Imaging
    - Microscopic Cell Imaging
    - ➤ Infrared Imaging
  - Wireless Network
  - IoT
  - Machine Learning
- 9. New initiatives/Innovations: NIL
- 10. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B) (Build up with Project Funding)
05	01	04

#### 11. Major Instruments available in the Department:

### 1. Major Instruments available in Biometrics Laboratory

(Funded By: Department of Electronics and Information Technology, Govt. of India.)

- 5 NIKON D5100 VR KIT Cameras with accessories with Simplex Flash Radio Trigger, ML-3 (Infrared Multitrigger), Tripod (Camera Stand).
- 1 Rack max 4U Server (HP/DL580) with 2.13GHz Intel Xeon Quad Core processor.
- 1 Dell Studio XPS 1640 Laptop, with 2.40GHz 789 MHz Intel Core 2 Duo processor with 4GB physical memory.
- 3 HP Compac desktop computers with 2.80GHz, 3.00GHz, 2.66GHz Core 2 Duo processors and 2GB, 2GB, 1GB physical memory respectively.
- Online UPS, 3.0 KVA.
- RTG005-USB connected FPGA and Power PC Image Processing System.
- Sony Make Camera Link Camera, Monochrome, universal power supply with 4mm Mega Pixel Lens, Mini 26 pin camera link connector.
- HP Laser Jet M1522nf Printer cum Scanner cum Copier cum Fax.
- HP Laser Jet Printer P1008.



Fig: Biometrics Laboratory

## 2. Major Instruments available in Bio-Medical Infrared Image Processing Laboratory

(Funded By: Department of Biotechnology (DBT), Twining Project, Govt. of India.)

- T650sc Infrared Thermal Camera.
- APC 6KVA online UPS
- FLIR E60 Thermo-vision camera with Digital camera flash, built in laser with software and tri-pod mounted.



Fig: Bio-Medical Infrared Image Processing Laboratory

### 3. Major Instruments available in Computer Vision Laboratory

(Funded By: Defence Research and Development Organization (DRDO), Govt. of India)

- One no of NVIDIA TITAN Xp graphics Card, with GPU Architecture Pascal, Frame Buffer 12 GB G5X,Memory Speed 11.4 Gbps,Boost Clock 1582 MHz.
- One no of HP Z420 Workstation with 3.7 GHz speed.
- Two no of PTZ High Resolution CCTV Cameras.
- One no of Cloud Storage with 24TB HDD.
- One 6 KVA Online UPS.
- One 49 inch Panasonic Display Monitor.



Fig: Computer Vision Laborator

## 4. Major Instruments available in Mobile Computing Laboratory

(Funded By: Department of Electronics and Information Technology, Govt. of India.)

- Dell Precision Tower 5810 workstation.
- Online UPS, 3.0 KVA.
- Samsung xpress M2876ND all in one laser printer.

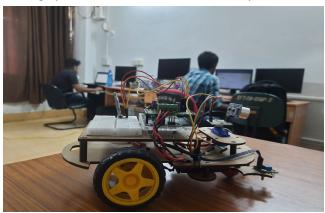


Fig: Mobile Computing Laboratory

# 12. On-going Research Projects in 2020-21:

Principal Investigator	Co-Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Dr. Mrinal Kanti Bhowmik	Co-Investigator-1: Prof. Anjan Kumar Ghosh Former Vice Chancellor, Tripura University (A Central University) Co-Investigator-2: Prof. Barin Kumar De Department of Physics , Tripura University (A Central University)	Defence Research and Development Organisation (DRDO), New Delhi	Development of Object Detection Techniques From Degraded Complex Video Sequences Due To Dynamic Variation of Scenes By Different Atmospheric Conditions For Security &Surveillance (in Collaboration with Jadavpur University, Kolkata-700032, India)	Amount of grant: Rs. 64.77 Lakh Tripura University: Rs. 46.58 Lakhs Jadavpur University: Rs. 18.19 Lakhs  Project Period: 08-06- 2018 to 07- 06-2021	10.57941	2 Years 6 Months
Dr. Abhishek Majumder	Co-PI: Smt. Sangita Das Biswas	All India Council for Technical Education (AICTE), New Delhi	Development of an Intra-Domain Mobility Management Scheme for Single Gateway Wireless Mesh Network to handle Highly Mobile Mesh Clients	Amount of grant: 2.85666 Lakhs	2.81381	3 Years



Head of the Department : Dr. Champa Nandi

Year of Establishment : 2005

Programmes on offer : M.Tech. in Electrical Engineering, Ph.D in Electrical Engineering

Intake capacity : 18+2(EWS) for M.Tech

#### Major achievements/ Vision of the Department:

The faculty members and students of Electrical Engineering Department work on advanced areas such as EnergyManagement, Renewable Energy, Modern power system operation and control, Hybrid Energy System, Microgrid and Chaos based optical communication. In this Academic session Department of EE had organized two National level webinars.

Student Achievements 2020-2021:

3 Passed out students have already got chance in Ph.D. in IIT Guwahati, NIT Agartala and Tripura University. Another 1 student got chance to work as JE in Indian Railway.

Faculty Achievements 2020-2021: 1 faculty awarded Ph.D. Degree.

Vision of the Department is to prepare and develop human excellence and inculcate leadership through integrating modern, scientific and technological knowledge and skills with the basic human ethos and values by hard work and creativity. The Departmental desires only the comprehensively trained socially responsible, innovative electrical engineers and researchers of highest quality to contribute to the nation's imprint on the world stage and dispositions to contribute to a better society.

#### 1. Faculty Members:

					ırch/		n.D lance	The	ster esis ance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Sangita Das Biswas	M.Tech. in Electrical Engineering	Assistant Professor	Full Time	Power System Optimization	17(+) Years	Nil	Nil	22	2	18	2
Champa Nandi	Ph.D in Eleatrical Engineering	Assistant Professor	Full Time	Hybrid Energy , Controller design, Microgrid	11(+) Years	Nil	04	24	3	153	7
Gagari Deb	Ph.D	Assistant Professor (Contractual)	Contract	Voltage Stability of Power System	12(+) Years	Nil	Nil	21	3	134	6

<sup>\*</sup>Must be mentioned

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2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

# 2.1 Book Chapters:

		1		1		I			_
Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ Inter- national	Publishers	Year (2020- 21)	ISBN	Page No.
Tushar Kanti Das, Rajesh Debnath,	Sangita Das Biswas	Modeling and Implementation of Advanced electronic Circuit Breaker Technique for Protection	Jyotsna K. Manda, Somnath Mukhopad hyay, Alak Roy	Applications of Internet of Things	Inter- national	Springer	2020	978- 981-15- 6198-6	Pages 15-26
S. Bhatta- charjee & Champa Nandi,	U. Das, M. Chow- dhury	Role of Hybrid Energy System in Reducing Effects of Climate, 2020,	H. Qudrat- Ullah, M. Asif (Eds.),	Change, Dynamics of Energy, Environ- ment and Economy Lecture Notes in Energy 77,	Inter- national	Springer,	2020	https://doi.org /10.100 7/978- 3-030- 43578- 3_6.	pp. 115- 138.
S. Bhatta- charjee & Champa Nandi	-	Design of an Industrial Internet of Things-Enabled Energy Management System of a Grid-Connected Solar–Wind Hybrid System-Based Battery Swapping Charging Station for Electric Vehicle	J. K, Mandal, S. Mukhopad hyay, A. Roy	Applications of Internet of Things	Inter- national	Springer	2020	978- 981-15- 6198-6 https:// doi.org /10.100 7/978- 981-15- 6198- 6_1.	pp. 1- 14
S. Baidya And Champa Nandi	-	Solar Energy Generation and Internet of Energy (IoE): Challenges and Purviw	Pawan Kumar, SreteNikol ovski, Z Y Dong	(Internet of Energy hand- book)	Inter- national	Taylor- Francis CRC press	March, 2021	978100 304834 3	PP 175- 191



# 2.2 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020-21)	ISSN/ ISBN/ DOI	Page No.
S. Bhattacharjee, Champa Nandi	-	Design of a voting based smart energy management system of the renewable based hybrid energy system for a small community. Energy	International	Energy ELSEVIER	214	1 <sup>st</sup> January 2021	ISBN: 978-3- 030- 43578-3 https:// doi.org/ 10.1016/ j.energy. 2020. 118977	PP:1- 15,
S. Bhattacharjee, Champa Nandi	-	Technical feasibility study and optimisation analysis on solar-biomass based pumped storage hydropower plant	International	Journal of Environment and Sustainable Development, Inderscience Publisher	Vol.20 No.3/4,	2021	https:// dx.doi.org/ IJESD. 2021. 116864	pp.404 - 429
Gagari Deb	Kabir Chakraborty, Sumita Deb	Modified Spider Monkey Optimization — Based Optimal Placement of Distributed Generators in Radial Distribution System for Voltage Security Improvement	International	Electric Power Components and Systems Taylor and Francies	Vol 48, No. 9- 10	2020	https:// doi.org/ 10.1080/ 1532 5008. 2020. 1829186	pp. 1006- 1020
Aditi Datta;	Anjan Mukherjee; Anjan K. Ghosh; Champa Nandi	Simulating the Effect of Electro Optic or Acousto Optic Modulator along with Noise in Spice	7th International Conference on Electrical Energy Systems (ICEES)	IEEE		11-13 Feb. 2021	https:// doi.org/ 10.1109/ ICEES 51510. 2021. 9383765 Electronic ISBN: 978- 1-7281- 7612-3 Print on Demand (PoD) ISBN: 978-1- 7281- 7281- 7613-0	pp.576 = 581

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/Research	Number of Conferer	nce/ Seminar/ W	orkshop attended
Name	Scholar	International	National	Institution Level
Dr. Champa Nandi	Teacher	Nil	09	Nil
Sangita Das Biswas	Teacher	Nil	14	Nil
Gagari Deb	Teacher	Nil	01	Nil
Sagar Debbarma	Student	Nil	04	Nil
Subhankar Sarkar	Student	Nil	04	Nil
Injamamul Khan	Student	Nil	04	Nil
AnimeshDebbarma	Student	Nil	04	Nil
Philips Debbarma	Student	Nil	04	Nil
Debanjana Chakraborty	Student	Nil	04	Nil
Sunita Dey	Student	Nil	04	Nil
Pratim Kumar Mondal	Student	Nil	04	Nil
Chiranjit Biswas	Student	Nil	04	Nil
Trisha Datta	Student	Nil	04	Nil
Anumita Sen	Student	Nil	04	Nil
AnukulSaha	Student	Nil	04	Nil
Arindam Chowdhury	Student	Nil	04	Nil
Sagar Debbarma	Student	Nil	04	Nil

4. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of Scholars	Par time/ Full time	Research topic	Name of Guide	Registered/ Theses submitted/ Awarded
Mr. Somudeep Bhattacharjee	Full Time	Novel Energy Management System Design for Renewable Energy based Hybrid System to combat Climate Change	Dr. Champa Nandi	Registered
Mrs. Sanghita Baidya	Full Time	Protection Scheme for Solar PV based DC Microgrid	Dr. Champa Nandi	Registered
Mrs. Aditi Datta	Part Time	Design and analysis of optical communication Systems using chaos shift keying	Prof. Anjan Mukharjee , Prof. Anjan Ghosh and Dr. Champa Nandi	Submitted (August 21)
Mr. Brahma Nand Thakur	Part Time	Energy Management controller design for Hydro PV based power plant	Dr. Champa Nandi	Started course work

## 5. Outreach Footprint of the Department:

# 5.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

				Refresher / Orientation		
SI.	Date	Duration	Title	Courses / Seminar/	International/	No. of
No.	Date	Duration	ritie	Conference/ Workshops/	National	Participants
				Symposia Lecture/ Talk		
			Systematic			
1	25.01.2021	One	Literature Review	One Day National Level	National	152
1	(Monday)	day.	research	Webinar	INALIOITAI	132
			Methodology			
	16th		Electrical			
2	December,	One Day	Engineering	One Day National Level	National	46
	2020	One Day	Fundamentals using	Webinar	Ivational	40
	2020		MATLAB			

## 5.2 Participation in E-Content creation programmes such as e-PG Pathshala, NME-ICT, MOOCs:

Sl. No.	Faculty Names	Title of E-Content	No. of Hours	Available or Not
1.	Sangita Das	Power System Dynamics, Control and Monitoring	12 Weeks	Available
	Biswas			
2	Dr,Champa	Development of Teacher's e-kit and MOOCs in	30 hours	Available
۷.	Nandi	Four Quadrant Format of e-Content,		

## 5.3 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership	
Champa Nandi	Institution of Engineers' (INDIA)	Associate Member	
Champa Nandi	Institution of Engineers' (INDIA)	IEI membership no. AM0993819	
Sangita Das Biswas	Institution of Engineers' (INDIA)	Member	
Saligita Das biswas	institution of Engineers (INDIA)	IE(I) Membership No. M-1434939	
Cagari Dah	Institution of Engineers' (INDIA)	Associate Member, Membership	
Gagari Deb	institution of Engineers (INDIA)	No. AM099380-0	

## 5.4 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Canaita Das	1. One-week FDP on "Research Opportunities, Challenges in Power Electronics for EV and Its Impact on Smart Grid"	National Institute of Technology, Tiruchirapalli, Department Electrical and Electronics Engineering	One Week	14 <sup>th</sup> to 20 <sup>th</sup> December 2020
Sangita Das Biswas	2. One-week Online Faculty Development Programme on "Cyber Security"	Electronics & ICT Academies NIT Patna, and MNIT Jaipur Supported by Ministry of Electronics and Information Technology (MeitY), Govt. of India	One Week	05th - 11st October, 2020

4	
	28

	3. One week online Faculty			
	Development Program on "Energy and Environment: Conservation, Generation, Storageand Efficient Utilization"	North Eastern Regional Institute of Science and Technology, Deemed-To-Be-University under Ministry of Education, Govt.of India	One Week	24 <sup>th</sup> -28 <sup>th</sup> August, 2020
	4. Two-week Online Faculty Development Programme on "ICT Tools for Teaching, Learning Process and Institute"	Electronics & ICT AcademiesNIT Patna, MNIT Jaipur, PDPM IIITDM Jabalpur, IIT Guwahati and IIT Roorkee	Two Weeks	10th - 21st August, 2020
	5. Two week online faculty development programme on "Advanced Optimization Techniques and hands-on with MATLAB/SCILAB"	Electronics and ICT Academies under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" by the Ministry of Electronics and Information Technology (MeitY), Government of India.	One Week	13 – 24 July 2020
Gagari Deb	AlCTE Training and Learning (ATAL) Academy Online Faculty Development Program on "Energy Engineering"	National Institute of Technology, Agartala	One Week	23 November- 27 November, 2020
	AICTE Training and Learning (ATAL) Academy Online Faculty Development Program on "Energy Engineering"	National Institute of Technology, Agartala	One week	23 November-27 November, 2020
	One week online Faculty Development Program on "Energy and Environment: Conservation, Generation, Storage and Efficient Utilization"	North Eastern Regional Institute of Science and Technology, Deemed-To-Be-University under Ministry of Education, Govt.of India	One week	24th -28th August, 2020
Dr. Champa Nandi	AICTE Training and Learning (ATAL) Academy Online FDP onon "TRENDS AND ISSUES IN CONTROL SYSTEM ANALYSIS AND DESIGN"	Department of ECE, Government College of Engineering Srirangam, Trichy 12. India,	One week	17.08.2020 to 21.08.2020
	Online Faculty Development Programme (FDP) on Developing Multimedia enriched Powerful Presentations	Guru Angad Dev Teaching Learning Centre (GAD-TLC) of MHRD under PMMMNMTT Scheme,	One- week	11-16 August 2020
	Online Faculty Development Programme (FDP) on Development of Teacher's e-kit and MOOCs in Four Quadrant Format of e-Content,	Guru Angad Dev Teaching Learning Centre (GAD-TLC) of MHRD under PMMMNMTT Scheme,	10 Days	12-20 September 2020

AICTE Training And Learning	Rajasthan Technical University	One	2021-2-5 to
(ATAL) Academy Online FDP	Kota.	week	2021-2-9
on "Energy Engineering"			
AICTE Training and Learning	SREE VIDYANIKETHAN	One	15/02/2021
(ATAL) Academy Online FDP on	ENGINEERING	week	to
"Green Technology &	COLLEGEA.RANGAMPET.		19/02/2021
Sustainability Engineering"			

- 6. Major thrust areas of research: Power System, Hybrid Energy Management, Controller Design
- 7. New initiatives/Innovations:The Department always inspired various opportunities to the students and teachers to conduct research and to attend other career development programs with the assistance of University Grants Commission and other agencies.
- 8. Teaching Laboratory/ Research Laboratory:

Total No. of Lab	No. of Teaching Lab (A)	No. of Research Lab (B)
(A+B)	No. of reacting Lab (A)	(Build up with Project Funding)
3	3	0

- 9. Major Instruments available in the Department:PSCAD, ETAP, LabView Software.
- 10. Students qualified in various public examinations in the Academic year2020-21 from the Department:

Name	Sex (M/F)	Category (GEN/ ST/SC/ OBC/EWS/MIN)	PH (Yes /No)	Name of the Organization/Institution	Name of the Examination (NET/ SLET/ GATE/ CAT/ SSC/ UPSC/ TPSC/ Others/ SWT*/SWO**
DaibatMajumder	М	GEN	No	Indian Railway	RRB JE& GATE 2019
Sarbani Mandal	F	SC	No	IIT Guwahati	Ph.D Entrance Test
Sai Sain Mailuai	'	30			IIT Guwahati& GATE 2020
Uttara Das	F	SC	No	Tripura University	Ph.D Entrance Test
Ottara Das	'	30			Tripura University &GATE 2021
Rubi Debbarma	F	ST	No	All India GATE	GATE 2020
Mr. Chiranjib Biswas	М	SC	No	Tripura University	GATE 2021

<sup>\*</sup>Students Opting for Higher Studies With Examination;\*\*Students Opting for Higher Studies Without Examination.

#### 11. Details of Student's Placement known to the Department:

Name	Sex (M/F)	Category (GEN/ ST/SC/ OBC/EWS/MIN)	PH (Yes /No)	Name of the Organization/ Institution	Designation	Examination Body	Name of the Examination
Daibat Majumder	М	GEN	No	Indian Railway	JE	RRB	RRB JE

## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

Head of the Department : Dr. Bishanka Brata Bhowmik

Year of Establishment : 2016

Programmes on offer : M.Tech in Electronics and Communication Engineering

Intake capacity : 15

#### Major achievements/ Vision of the Department:

July 2016 is quite exciting in the history of Tripura University when the Department of Electronics and Communication Engineering had started its journey with three faculty members and fifteen students. Core courses like Fibre Optics Communication and Microwave Communication along with a fine blend of Quantum Physics and its application to Nanoscale Devices make our curriculum quite unique and attractive. Our research and training labs are coming up in a great way and we hope that it will be a vibrating department in near future.

### 1. Faculty Members:

,			Guest/	D	rs of Research/ ence		n.D lance	Mas The Guid	esis		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Gud Contract*	Research area	No. of years of Teaching/ Rese job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Bishanka Brata Bhowmik	Ph.D.	Assistant Professor	Full time	Optical Fiber Communication and Photonics	5 years	-	4	6	4	99	5
Dr. Anirban Karmakar	Ph.D.	Assistant Professor	Full time	Microwaves, Antennas & Propagation	14 years	1	4	26	3	513	14

<sup>\*</sup>Must be mentioned

- 2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:
- 2.1 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020- 21)	ISSN/ ISBN/ DOI	Page No.
Shabana Huda	Anirban Karmakar, Anuradha Saha	Ultra-Wideband Dielectric Resonator Antennas: Understanding of Modal Analysis	International	2021 2nd International Conference for Emerging Technology (INCET)		2020- 21		1-10
Shabana Huda	Anirban Karmakar, Anuradha Saha	Minkowski Fractal Dielectric Resonator Antenna for UWB Application	International	2021 6th International Conference for Convergence in Technology (I2CT)		2020- 21		1-7

932	Annual Report 2020-2021	
		40

Piyali Chakra- borty	Utsab Banerjee, Anuradha Saha, Anirban Karmakar	A compact Ultra Wideband dielectric resonator antenna with dual-band circular polarization characteristics	International	International Journal of RF and Microwave Computer-Aide d Engineering	31	2020- 21	https://doi .org/10.10 02/mmce. 22577	1-10
Anindita Bhatta- charjee	Abhirup Bhawal, Anirban Karmakar, Anuradha Saha, Diptendu Bhattacharya	Vivaldi antennas: A historical review and current state of art	International	International Journal of Microwave and Wireless Technologies	-	2020- 21	https://doi .org/10.10 17/S17590 787200014	1-18
Anirban Karmakar	No	Fractal antennas and arrays: a review and recent developments	International	International Journal of Microwave and Wireless Technologies	13	2020- 21	https://doi .org/10.10 17/S17590 787200009 63	173- 197
Anindita Bhatta- charjee	Anirban Karmakar, Anuradha Saha,	D. Design of a compact UWB MIMO-diversity antenna incorporating fractal inspired isolation structure with band notch characteristics	International	Microwave and Optical Technology Letters	63	-	https://doi .org/10.10 02/mop.32 927	2597– 2605.
Suman Debnath	Bishanka Brata Bhowmik	Design of a Low-Cost Li-Fi System Using Table Lamp	National	Applications of Internet of Things. Lecture Notes in Networks and Systems	vol 137	Aug- 2020	10.1007/9 78-981- 15-6198- 6_5	pp 49- 57
Papiya Debbarma	Srikanta Das, Bishanka Brata Bhowmik	A Study of Micro-ring Resonator- Based Optical Sensor	National	Applications of Internet of Things. Lecture Notes in Networks and Systems	vol 137	Aug- 2020	doi.org/10 .1007/978 -981-15- 6198-6_6	pp 59- 65
Kankana Debnath	Srikanta Das, Arka Bin Roy, Bishanka Brata Bhowmik	A Brief Study of Optical Flip- flops Based on Microring Resonator	National	35 Indian Engineering Congress	35 Indian Engineeri ng Congress	Dec-18- 20,202 0	-	pp-919

155

Arka Bin Roy	Srikanta Das, Kankana Debnath, Bishanka Brata Bhowmik	Wavelength Dependent Configurable Optical AND to OR Gate based on Micro Ring Resonator Loaded on Mach-Zehnder Structure	National	35 Indian Engineering Congress	35 Indian Engineeri ng Congress	Dec-18- 20,202 0	pp-941
Nitish Sinha	Satyabrata Singha, Mohua Chakraborty, Bishanka Brata Bhowmik	ML-based Constellation- rotation Correction of QPSK Signal In Optical fiber Communication	National	35 Indian Engineering Congress	35 Indian Engineeri ng Congress	Dec-18- 20,202 0	pp-937

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conf	erence/ Seminar/ Wo	kshop attended
Name	Research Scholar	International	National	Institution Level
Anirban Karmakar	Teacher	1	-	-
Dr. Bishanka Brata Bhowmik	Teacher	1	1	-
Nitish Sinha	Student	-	1	-

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/ Universities	Title of Invited talk
Dr. Bishanka Brata	Ambassa, Dhalai,	20 <sup>th</sup> August,	Dhalai Polytechnic,	Fiber optic communication-Optical
Bhowmik	Tripura	2020	Ambassa	sources, Dispersions, Receivers.
Dr. Bishanka Brata	Dept of IT,	17 <sup>th</sup>		
Bhowmik	Tripura	December,	Tripura University	Introduction to Octave
BHOWIHK	University	2020		

5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year 2020-21:

Name of	Par time/	Research topic	Name of Guide	Registered/ Theses
Scholars	Full time	nesearch topic	Name of Guide	submitted/ Awarded
Mr. Utsab Banerjee	Part time	Study on Circularly Polarized Antennas for Modern Wireless Communication Applications	Dr. Anirban Karmakar	Awarded
Mr. Abhirup Bhawal	Part time	Study on Vivaldi Antenna Systems with Improved Radiation Characteristics for Wireless Communications Applications	Dr. Anirban Karmakar	Registered



Miss. Anindita Bhattacharjee	Full time	Design and analysis of compact MIMO antenna systems for wireless communication	Dr. Anirban Karmakar	Registered
Miss. Piyali Chakraborty	Full time	Design and analysis of compact Dielectric resonator antenna for wireless applications	Dr. Anirban Karmakar	Registered
Mr. Satyabrata Singha	Full time	Design and characterization of micro ring resonator based modulator in high optical communication	Dr. Bishanka Brata Bhowmik	Registered
Mr. Srikanta Das	Full time   resonator based logic circuits and		Dr. Bishanka Brata Bhowmik	Registered
Miss. Puja Das	Full time	RF energy harvesting systems	Dr. Anirban Karmakar	Course work started
Mr. Nitish Sinha	Full time		Dr. Bishanka Brata Bhowmik	Course work started
Mr. Suman Debnath	Full time Optical fiber communication		Dr. Bishanka Brata Bhowmik	Course work started

# 6. Outreach Footprint of the Department:

# 6.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

				Refresher / Orientation				
SI.	Date	Duration	Title	Courses / Seminar/	International/	No. of		
No.	Date	Duration	Title	Conference/ Workshops/	National	Participants		
				Symposia Lecture/ Talk				
	9-13 <sup>th</sup>		0.12th		Recent Trends in			
1	November,	5 days Electronics and		Faculty Development	National	70		
*	2020	3 uays	Information	Programme	Ivational	70		
	2020		Technology					
		18/1/21	Artificial	ATAL online faculty				
2.	18/1/21 to Intellige		Intelligence &	•	National	100		
		22/1/21	Robotics	development programme				

## 6.2 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Anirban Karmakar	IEEE	Senior Member
Dr. Bishanka Brata Bhowmik	The Institutions of Engineers	Graduate member

## 6.3 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Dr. Bishanka Brata Bhowmik	Teachers on using ICT for Online Teaching Learning Process	Faculty Development Centre, Tripura University	Two weeks	1 <sup>st</sup> to 14 <sup>th</sup> December, 2020

7. Major thrust areas of research : Microwaves, Antennas & IoT.



- 8. New initiatives/Innovations: MIMO antennas & Dielectric Resonator antennas for wireless applications.
- 9. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B)
Total No. of Lab (A+b)	No. of reaching Lab (A)	(Build up with Project Funding)
3	2	-
-	1 (optical fiber communication lab)	1(Antenna Measurement Lab)
-	1 (Microwave Lab)	-

10. Major Instruments available in the Department: Microwave Bench Setup, Microstrip Antenna Trainer kit, Advanced Fibre Optic Network Training Module with Dual wavelength Fibre Optic LASER Source and Detector, OTDR, Fibre Optic Power Meter, Fusion Splicing Machine, Visual Fault Locator.



#### **DEPARTMENT OF FORESTRY AND BIODIVERSITY**

Head of the Department : Dr. Sabyasachi Dasgupta

Year of Establishment : 2011

Programmes on offer : M.Sc. in Forestry and Biodiversity

Ph.D. in Forestry and Biodiversity

Intake capacity : 25+3(EWS)

### Major achievements/ Vision of the Department:

Department of Forestry and Biodiversity came into existence in September 2011 under the Faculty of Science to emerge as a Centre of Excellence in Forestry and Biodiversity Conservation and Management. The Department shall also strive to deal with the solution-based forestry research in tune with the emerging issues in the sector. This Department aims to carry out research in Agroforestry, Forest Biotechnology, Silviculture and Tree improvement, Ecosystem services, Ecological Modeling, Conservation of biodiversity, Restoration ecology etc. using the principles of sustainable management of Natural Resources. The courses offered are regularly modified to suit need based forestry teaching, research and extension activities for producing skilled forestry professionals. The students pursuing post graduate programmes in forestry and biodiversity can pursue the role of Forest Officers, Dendrologist, Ethologist, Silviculturist, Zoo Curators, Researcher, Academician etc. in Government, Private and Non-Government Organisations (NGOs). Most of the passed out students have been absorbed in academic and research institutions. The Department also assists in the transfer of technology to the users viz, farmers/orchardists, state forest departments and different voluntary organizations. The Department in striving to create recognition in the field of Tropical Forestry and Biodiversity research at international arena with special emphasis on South East Asia.

#### 1. Faculty Members:

	WICHIDCIS .									,	
					_	Ph.D		Mast			
		<del> </del> 5		rch	Guidance		Thesis				
			st/	_	if seal			Guid	ance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
					15 years of						
				Conservation	teaching						
	M. Sc.			ecology,	and job						
Dr.	Forestry; Ph.			Environmental	experience,						
Sabyasachi	D. Forestry;	Associate	Full	Impact	19 years of	03	04	06	07	330	08
Dasgupta	NET in	Professor	time	Assessment,	research						
	Forestry			Climate	and 13						
				change impact	years of						
					consultancy						
Bimal	Dh D	Assistant	Full	Biodiversity &	17 F Voors	02	04	22	06	125	06
Debnath	Ph. D.	professor	time	Biotechnology	17.5 Years	02	04	22	06	125	06

Dr Thiru Selvan	M Sc in Forestry (Tree Improvement); Ph D in Forestry (Tree Improvement and Genetic Resources)	Assistant Professor	Full time	Forest Biology and Tree Improvement, Forest Seed Technology, Wood Anatomy, Forest Resource Management and Utilization	Teaching- 12 years Research- 13 years Total-20 Years	01	02	29	06	134	06
Dr. Sourabh Deb	M.Sc. Ph.D. (Ecology & Environmental Sciences)	Assistant Professor (Stage-II)	Full time	Agroforestry, Carbon dynamics and Ecosystem	10 years of teaching, 10 years of research	-	04	28	06	403	12

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

Services

## 2.1 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ International	Publishers	Year (2020- 21)	ISBN	Page No.
J. Debbarma	J. Debbarma and S. Deb	Tree diversity and ecosystem services in homegardens of tripura, northeast India	C.R.Deb and A. Paul	Bioresources and Sustainable Livelihood of Rural India	National	Mittal Publication	2021	939- 0692 571	148- 162
M. Taran	P. Barman, Y.Jamatia, S.Das and S. Deb	Biodiversity status, threats and conservational measures in Rudrasagar lake, a Ramsar site of Northeast India.	A. Guha	Biological Sciences: impact on modern civilization, current and future generation.	National	New Delhi Publishers, New Delhi	2021	978- 81- 947 417- 9-4	71- 84

# 2.2 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main	Co- Authors	Title	Local/	Name of the	Volum	Year	ISSN/	Page
Author			National/	Journal/	е	(2020-	ISBN/D	No.
			International	Proceedings/		21)	OI	
				Magazine				
Purna	Sabyasachi	Valuation of Water as	International	Research	12(1)	2021	ISSN:	90-
Jana	Dasgupta and	Forest Ecosystem Service		Journal of			2229-	95
	Nagendra	in a Sacred Grove of		Agricultural			4538	
	Prasad	Garhwal Himalaya, India		Sciences				
	Todaria							



Purna Jana Bimal	Sabyasachi Dasgupta and Nagendra Prasad Todaria	Throughfall and stemflow nutrient flux in deodar and oak forests, Garhwal Himalaya, India	International	Water Supply	21(4)	2021	ISSN 1606- 9749 EISSN 1607- 0798 https:// doi.org/ 10.2166 /ws.202 1.009	1649 - 1656
Debnath*	Debnath, A.	characteristics and regeneration status of tree species in Rowa Wildlife Sanctuary: an Indo-Burmese Hotspot—Tripura, North East India.		Vegetos (Spri nger)		2021	2229- 4473	160
Bimal Debnath*	Pradip Debnath, Rajat Ghosh, Sudhan Debnath.	In silico identification of potential inhibitors of SARS-CoV-2 papain-like protease from natural sources: A natural weapon to fight COVID-19; 10.2174/266679670199 9201203211330.	International	Coronaviruses (Bentham Science)	2(8)	2021	ISSN (Print): 2666- 7967 ISSN (Online) : 2666- 7975	12
Bimal Debnath*	Sumit Kumar Das, & Sourabh Deb	An assessment of plant diversity in home-gardens of rural & urban areas of Tripura, North-East India.	National	Indian Journal of Agroforestry (Indian Society of Agroforestry).	22(2)	2020	Print:09 72- 0715 Online: 2456- 6489	71- 79.
Bimal Debnath*	Ambiangmiki S Langshiang, Amal Debnath, Abhijit Bhattacharjee , Chiranjit Paul	Traditional healing practices of Pnar and War communities in West Jaintia Hills District of Meghalaya, Northeast India,	International	Indian Journal of Traditional Knowledge,	19(4),	2020	ISSN: 0975- 1068 (Online) ISSN: 0972- 5938 (Print)	776- 787
Chiranjit Paul	Amal Debnath, Kripamoy Chakraborty, Sushanta Ghosh, Abhijit Bhattacharjee , Bimal Debnath.	Sex-specific variations in phytochemicals and antimicrobial potentiality of <i>Dioscorea</i> . https://doi.org/10.1186/s43094-020-00076-4,	International	Future Journal of Pharmaceutic al Sciences. (Springer)	6(1)	2020	ISSN: 2314- 7253	60
Bimal Debnath,*	Samhita Bhaumik & Sudhan Debnath.	Repurposing of existing drugs for inhibition of the main protease 3CLPro of Coronavirus using combine ligand based and structure based method. https://doi.org/10.14744/ejmo.2020.91768	International	EJMO, Eurasian Journal of Medicine and Oncology.	4(4):	2020	ISSN:25 87- 196X (o nline)	314,





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	Debanjan	Identification of	International	Journal of	20	2020	Print	1-22
	Sen, Pradip	potential inhibitors of	c.mational	Biomolecular		2020	ISSN: 0	
	Debnath,	SARS-CoV-2 Main Protease and Spike		Structure and			739-	
	Bimal	receptor from ten		Dynamics Dynamics			1102 O	
	Debnath,	important spices		(JBSD)			nline	
	Samhita	through structure-based virtual screening and		Taylor &			ISSN: 1	
	Bhaumik &	molecular dynamic		Francis			538-	
	Sudhan	study.		Francis			0254	
	Debnath.	https://doi.org/10.1080/ 07391102.2020.1819883					0234	
	Pradip	In Silico Identification of		Chemistry	5(30),	2020	Online	9388
	Debnath,	Potential Inhibitors of		Select	3(30),	2020	ISSN:	9300
	Bimal	ADP-Ribose Phosphatase		(Medicinal			2365-	9398
		of SARS-CoV-2 nsP3 by Combining E-		Chemistry &				3336
	Debnath , Samhita	Pharmacophore- and					6549	•
		Receptor-Based Virtual		Drug				
	Bhaumik &	Screening of Databasehttps://doi.org/		Discovery),				
	Sudhan	10.1002/slct.202001419;		Wiley				
6.11.1	Debnath.			- · · ·	44.6	2022	1 //	4.11
Subhash	Raghavendra	Soil carbon dynamics in	International	Ecological	114	2020	https://	1-11
Babu	Singh, RK Avasthe,	Indian Himalayan		Indicators	(1062		doi.org/	
	Gulab Singh	intensified organic rice-			92)		10.1016	
	Yadav, KP	based cropping					/j.ecolin	
	Mohapatra,	sequences					d.2020.	
	Thiru Selvan,						106292	
	Anup Das,							
	Vinod K Singh,							
	Donatella							
	Valente, Irene Petrosillo							
Vipan	Punit	Terminalia chebula	International	Indian	147(2)	2021	2321-	154-
Guleria	Chaudhary,	(Harar) Characterization		Forester	,		094X	159
	Amol	by using Morphological						
	Vashisth,	Descriptors in Himalayan						
	Kamal	Region						
	Sharma, Thiru							
	Selvan,							
	Sanjeev							
	Thakur							
V George	Thiru Selvan	Prospects of Bamboo in	International	International	8(3)	2020	_	17-
Jenner	Tillia Scivali	Livelihood Enhancement	International	Forestry	0(3)	2020		22
Jenner		of Rural Women through						
		Incense Stick and its Role		Working Group				
		in Mitigating Rural		Newsletter-				
		Poverty- A model						
				Working				
				Group B3-				
				Society of				
				American				
V/ C	Thin C !	Durfame I Di	Internal Control	Foresters	47	2024	2247	F4.F
V George	Thiru Selvan	Preferred Physical	International	International	17	2021	2347-	515-
Jenner	and Kumaresan P	Parameters of Industrial Agarbatti Sticks		Journal of Researches in			517X	524
	KumaresamP	Agai natti Sticks		Biosciences,				
				Agriculture				
	1	İ	I	1 0	ĺ	ĺ	I	I
				and				



D. Deb	M. Jamatia & J. Debbarma & J. Ahirwal, S. Deb & U. .K. Sahoo	Evaluating the Role of Community-Managed Forest in Carbon Sequestration and Climate Change Mitigation of Tripura, India	International	Water Air Soil Pollution (IF 1.90)	232 (166)	2021	https:// doi.org/ 10.1007 /s11270 -021- 05133-z	
J. Ahirwal	A.Nath, B. Brahma,S. Deb, U.K.Sahoo,A. J. Nath	Patterns and driving factors of biomass carbon and soil organic carbon stock in the Indian Himalayan region	International	Science of the Total Environment (IF 7.96)	<u>770</u> (20)	2021	https:// doi.org/ 10.1016 /j.scitot env.202 1.14529 2	
S. Deb	-	Enumeration of the Flora of Northeast India-Onelist of over 10,000 taxa of flowering plants.  AFB Flora Series on Flowering Plants of the Indian Subcontinent, Volume 1, Uma Shankar. (Book Review	International	International Journal of Ecology and Environmenta I Sciences.	47(1)	2021	2320- 5199	486
S.K. Das	S Deb, B Debnath	Assessment of plant diversity in homegardens of rural and urban areas of Tripura, North-East India	National	Indian Journal of Agroforestry	22 (2)	2020	0972 - 0715	71- 79

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Confe	shop attended	
Name	Research Scholar	International	National	Institution Level
Dr Thiru Selvan	Teacher	04	05	03
Dr Sourabh Deb	Teacher	01	04	03

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Name Place		Institutions/ Universities	Title of Invited talk
Bimal Debnath	National Science Day 2021	06/03/2021	MBB College,	Future of STI: Impacts on
	MBB Colege, Agartala,		Agartala, Tripura	Education, Skills, and Work
	Tripura			
Bimal Debnath	Utkal University	20/07/2020	Utkal University,	Agarwood ( <i>Aquilaria</i>
	Centre of Excellence,		Orissa, India	malaccensis Lam.)
	North East India Studies			Production in North East
	(Under RUSA 2.0			India: Rural Livelihood
	Programme)			Generation & Escalation of
	Ministry of Human			National GDP
	Resource Development,			
	Govt. of India			

# 4.

Bimal Debnath	Netaji Subhash Mahavidhyalaya,	13/07/2021	Netaji Subhash Mahavidhyalaya,	Agarwood a Potential Bioresource for Livelihood
	Udaipur, Tripura, India		Udaipur, Tripura,	Generation and Climate
			India	Change Mitigation in North East India
Dr Thiru Selvan	Online-	05/08/2020	SIVET College, Chennai, Tamil Nadu	Bamboos as a Sustainable, Economically Viable Resource
Dr Thiru Selvan	Online	30/06/2021	Tripura Forest Department as a part of the celebration of 75 years of Independence- "Azadi Ka Amrut Mahotsava"	Diversity in North East and Forest Conservation
Dr Sourabh Deb	Agartala	19/08/2020	Women's Polytechnic, Hapania	Home delivery of learning during COVID-19: An exploration with reference to Tripura

## 4.1 Interaction with Industry/ NGO / Govt. Organization: (For Faculties)

SI.		Name of Industry/	Location	MOU	Any Grant Received?	Student Placed?
	Faculty Names	NGO	of	Signed?	(If yes value in Lakhs)	(If yes, Specify
No.	NGO	Industry	(Yes/No)	(II yes value III Lakiis)	Number.)	
1	Dr Thiru Colyan	Tripura Forest	Agartala	No	No	No
1.	1. Dr Thiru Selvan	Department				
2	Dr Thiru Selvan	NeDFi	Guwahati	No	Yes	No
3.	Dr Sourabh Deb	Tripura Forest	Agartala	Yes	No	No
5. Di Sourabh Deb		Department				

## 4.2 Membership in Professional / Learned Societies:

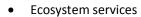
Faculty/ Scholar Name	Scholar Name Name of Society	
Dr Thiru Selvan	India Chapter-International Society of Tropical Foresters	Founding Member
Dr Sourabh Deb	National Institute of Ecology	Annual

## 4.3 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Dr Sourabh Deb	FDP on 'Developing Multimedia	GAD, TLC, Khalsa College, 5 days		12-16 August,
Di Sourabii Deb	enriched Powerful Presentations'	University of Delhi (Online)	Judys	2020

# 5. Major thrust area of research: Forest Biology and Tree Improvement,

- Forest Seed Technology,
- Forest Resource Management and Utilization,
- Wood Anatomy
- Agroforestry
- Natural Resource Management



• Net Ecosystem Productivity

### 6. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B) (Build up with Project Funding)
05	01	04

### 7. Major Instruments available in the Department:

- Remi Mini Rotary Shaker
- Whirlpool Refrigerator
- Refrigerated Centrifuge
- Environmental Test Chamber
- Spectrophotometer (mini)-manual
- Electronic Balance
- Flame Photometer
- Digital Conductivity Meter
- Magnetic Stirrer
- Laminar Flow
- Autoclave
- Laboratory Centrifuge
- Ph Meter
- Trinocular Microscope
- Kjeldahl Nitrogen Analyzer (DST-AICP Project)
- Muffle furnace (DST-AICP Project)-
- Hot Air Oven (DST-AICP Project)
- Computer with Arc GIS software (DST-AICP Project)
- PCR
- UV-VIS Spectrophotometer.

### 8. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Bimal	Rajat Ghosh,	DBT, Govt.	Phytochemical and	47.3	Nil	3 Years
Debnath	Dr Pratap	of India,	Pharmacological			
	Chandra	New Delhi	Evaluations of			
	Acharya,		Bioactivity Guided			
	Department		Fractions of			
	of Pharmacy,		Medicinal Plants of			
	TU		Tripura			

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Dr Thiru	Dr Sabyasachi	NMHS	Conservation of Biodiversity and	43.7 Lakh	14.02 Lakh	3 Years
Selvan	Dasgupta		Livelihood			
			Enhancement through			
			Community based			
			Forest			
			Management and			
			Ecotourism in and			
			around			
			Submergence of			
			Small Hydropower			
			Project			
Dr Sabyasachi	Dr Thiru Selvan	NMHS	Impact Assessment and Restoration of	9.95 Lakh	-	3 Years
Dasgupta	Selvan		Degraded			
Dasgapta			Monoculture			
			plantation of			
			natural rubber			
			(Hevea brasiliensis)			
			Through			
			Understory			
			Development for			
			Diversified			
			Livelihood Options in Tripura			
Dr Sourabh	-	DST, New	Net ecosystem	35.06	-	3 years
Deb		Delhi	production and			
			carbon dynamics of			
			forest ecosystems in North-East India			
			in relation to			
			altitude and			
			latitude gradient:			
			Implication for			
			carbon sink			
			management			_
Dr Sourabh	-	NMHS,	Spring	33.71	13.62	3 years
Deb		MoEF, Almora	Rejuvenation for Water Security in			
		AIIIIUI d	Himalaya			
Prof. Badal	Dr Sourabh	DBT	Bioresource of	78.49	Received full by	3 years
Kumar Datta	Deb		northeast India		University	

# 9. On-going Consultancy Projects in 2020-21:

Principal Consultant	Co- Partners	Funding Agency	Title of the project	Consultancy Fee received (Rs. in Lakhs)	Consultancy Fee received during the year (Rs. in Lakhs)	Tenure (In years and months)
Dr Thiru Selvan	-	NeDFi	Factors Impeding the Growth of Bamboo Sector in the Economy of NER and Preparing Roadmap to Make it Vibrant Sector of the North Eastern Economy	1.2	1.2	6 Months

# 10. Awards/Medals/Honours# (State/National/International level) received by the Teachers during the academic year 2020-21:

Name of	Name of	Date of	Awarding	Remarks	
Teacher	Awards/Medals/Honours	Awards/Medals/Honours	Agency/Institution	IVEITIGI KS	
Dr Thiru Selvan	Pearl Foundation Researcher Award for outstanding contributions in Agricultural Sciences-Forestry	19th June, 2021	Pearl Foundation	National level	
Dr Sourabh Deb	Pearl Foundation Award for outstanding research in tribal farming systems	19th June, 2021	Pearl Foundation	National level	

<sup>#</sup> In case of sports, inter university, zonal may also be considered.

# 11. Collaborative Research done with Other Universities / Institutes / Industry during 2020-21

Name of Teacher	Name of other Universities / Institutes / Industry	Collaboration on Project	Year (2020-21)
Dr Thiru Selvan	Consortium of Himalayan	Development of Eco-friendly and Cost-effective	2020-21
	University	Tourism in Hills	
Dr Thiru Selvan	NeDFi and other collaborators from different NGO's and organisations in NER	Factors Impeding the Growth of Bamboo Sector in the Economy of NER and Preparing Roadmap to Make it Vibrant Sector of the North Eastern Economy	2020-21
Dr Sourabh Deb	Mizoram University, Assam University, North Eastern Hill University	Net ecosystem production and carbon dynamics of forest ecosystems in North-East India in relation to altitude and latitude gradient: Implication for carbon sink management	2020-2023
Dr Sourabh Deb	Institutes/Universities from all Himalayan states	Spring Rejuvenation for Water Security in Himalaya	2020-2023

# 12. Students qualified in various public examinations in the Academic year 2020-21 from the Department:

Name	Sex (M/F)	Category (GEN/ ST/SC/ OBC/EWS/MIN)	PH (Yes /No)	Name of the Organization/Institution	Name of the Examination (NET/SLET/GATE/CAT/SSC/ UPSC/TPSC/Others/SWT*/SWO**
Sumit Kumar Das	М	SC	No	UGC-NET	UGC-NET(EVS)
Sulliit Kulliai Das	IVI	30		CSIR-NET	CSIR-NET(Life Science)
Saumik Deb	М	GEN	NO	Indian Postal Service	SSC

<sup>\*</sup>Students Opting for Higher Studies With Examination;\*\*Students Opting for Higher Studies Without Examination.

### 13. Details of Student's Placement known to the Department:

Name	Sex (M/ F)	0 , . ,	PH (Yes /No)	Name of the Organization/ Institution	Designation	Examination Body	Name of the Examination
Saumik Deb	М	GEN	NO	Indian Postal service	PA	SSC	SSC-CGL
Junoon Chakma	М	ST	NO	Consortium of Himalayan University	Field Investigator	Dept. of Forestry and	Interview
Subham Chakma	М	ST	_	Consortium of Himalayan University	Field Investigator	Bio diversity, TU	interview

#### **DEPARTMENT OF GEOGRAPHY & DISASTER MANAGEMENT**

Head of the Department : Dr. Y.V. Krishnaiah

Year of Establishment : 2004

Programmes on offer : M.A. / M.Sc. and Ph.D.

Intake capacity : 36 + 4 EWS

#### Major achievements/ Vision of the Department:

The Department of Geography & Disaster Management was established in the year 2004 under the Faculty of Sciences with a vision of excellence education in the fields of skill, training and research. The aim of the department is to make the student skilled insocial realities through development and application of knowledge that would help the student to serve the society. The department is making its utmost effort to make the Department best place in the field of geographical education taking together both academics and research activities. Currently the Department has Five Major ongoing Research Projects funded by MOES, DST, ICSSR, DBT and UGC-STRIDE Scheme(Collaboration with HCUC, Garwahal University and NITI-Aayog).

#### 1. Faculty Members

ē.	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract	Research area	No. of years of Teaching/ Research/ job experience	Awarded Ph		The	tation)	Citation	H-index
Name	Qua MP	Des	Full	Res	No. Tea job	Awa	Exis	Awa	Exis	Cita	두
Dr. Nibedita Das (Pan)	Ph.D	Associate Professor	Full time	Fluvial Geomorphology, Fluvial Hazard and Disaster Management, Land use/Land cover change.	29 years including 12 years in college	-	02	04	06	92	04
Dr. Y.V. Krishnaiah	Ph.D.	Associate Professor	Full time	Applied Climatology, Land and Water Resources, Watershed Management, Urban Problems, Application of RS & GIS	16 Years	-	02	03	06	07	2
Jimmi Debbarma	M.A (NET)	Assistant Professor	Full Time	Environment, Population and Resource Geography	14 Years 9 Months	-	-	04	-	-	-
Dr. Mousami Debbarma	Ph.D.	Assistant Professor	Full Time	Human Geography	10 Years 6 Months		3	04	07	1	1

ıal Report 2020-2021	

Dr. Saptarshi Mitra	Ph.D.	Assistant Professor	Full time	Regional Planning, Urban and Rural Planning & Development, Tourism Geography, Political Geography, Transport Geography	11Years (Including 1Years 3 months in College under WBCSC	01	04	04	06	22	3
Dr. Eshita Boral	Ph.D.	Assistant Professor	Full time	Urban and Transport Geography	5 years 6 months		02	04	-	-	-
Dr. Susmita Bhattacharya	Ph.D	-	Guest Faculty (Tenure based)	Physical and Human Geography, RS & GIS Applications	-	-	-	-	-	-	-

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referredonly:

# 2.1 Books:

Main Author	Co- Authors	Title	Local/ National/ International	Publisher	Year (2020- 21)	ISBN
Saptarshi	Abhijit	Monitoring Urban Expansion and	National	Indian Journal of	2020	0046-
Mitra	Santra	Land Use / Land Cover Changes		Regional Science, Vol:		9017
		of Agartala City, Tripura, India		LII/1 pp-123-136		

# 2.2 Book Chapters:

Main	Co-	Title of the	Book	Name of the	Local/	Publishe	Year	ISBN	Page
Author	Authors	Chapter	Editors	Book	National	r	(2020-		No.
					/Inter-		21)		
					national				
Moujuri	Nibedita	Flood Simulation	Bindhy	Water	Inter-	Springer	2021	ISBN 978-3-	Page
Bhowmik	Das	Modeling and	Wasini	Science	national	Nature		030-57487-	No.
	(Pan)	Disaster Risk	Pandey	and		Switzer-		1,978-3-030-	201-
		Reduction of	and	Sustainability		land		57488-8	212
		West Tripura	Subhash	(Sustainable				(eBook)	
		District,	Anand	Develop-				ISSN: 2523-	
		Tripura, North-		ment				3084, 2523-	
		East India		Goal Series)				3092	
								(electronic)	
Saptarshi	Stabak	Infrastructural	Mukherje	The Rise of	Inter-	Blooms-	2020-21	9789390513	500-
Mitra	Roy	Development	e, D. and	North East:	national	bury		017	520
		and Future Scope	Saha, M.	Paradigms of		Prime			
		of Railway		Developmen					
		Transport System		t in the VUCA					
		in Tripura: A		World					
		Spatial Analysis							

# 4

2.3 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020-21)	ISSN/ ISBN/ DOI	Page No.
Krishnaiah, Y.V.	Rana Bora	Evaluation of water balance elements and groundwater recharge of Bojalkata Watershed, Assam"	National	Hill Geographer (CARE Journal)	Vol. XXXVI- II	Dec, 2020	ISSN: 0970- 5023.	77- 84
Krishnaiah, Y.V.	Yhoshu Kedovikho	Assessing landslide vulnerability of Kohima city, Nagaland: A geospatial approach	National	National Geographical Journal of India, (International peer- reviewed and Refereed Journal)	Vol. 66, No. 3	September, 2020	ISSN: 0027- 9374 (DOI:10. 48008/ ngji.17 47)	274- 287
Jimmi Debbarma	Jatan Debnath	Assessment on the Impact of the Tripura Earthquake (January 3, 2017, mw = 5.6) in Northeast India	International	Journal of the Geographical Institute "Jovan Cvijić" SASA	71	2021	0350- 7599	1-13

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Confere	nce/ Seminar/ Wo	rkshop attended
Name	Research Scholar	International	National	Institution Level
Nibedita Das (Pan)	Teacher	-	01	-
Y.V. Krishnaiah	Teacher	03	02	-
Jimmi Debbarma	Teacher	03	08	-
Mousami Debbarma	Teacher	01	02	-
Saptarshi Mitra	Teacher	01	01	-
Kausik Panja	Research Scholar	03	01	02
Atoshi Chakma	Research Scholar	03	-	-
Debasish Debbarma	Research Scholar	-	01	-
Somprakash Dhar	Research Scholar	-	01	-
Stabak Roy	Research Scholar	01	01	-

Pradip Debnath	Research Scholar	01	-	-
Sajal Ghosh	Research Scholar	04	01	03
Sudeshna Debbarma	Research Scholar	02	01	01
Sudipta Pal	Research Scholar	01	06	01

# 4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Dr. Y. V. Krishnaiah	Madurai (Online mode)	20.03.2021.	HRDC, Madurai Kamaraj University, Madurai	Natural and man-induced disasters and management
Dr. Nibedita Das (Pan),	On-line [Webinar] Delhi	24.04.2021	Department of Environmental Studies, Mata Sundari College of Women, University of Delhi.	River hazards related issues and probable management for sustainability
Mrs. Jimmi Debbarma	Chennai	10.05.2021	School of Public Health, SRM Institute of Science and Technology, Chennai, Tamil Nadu	Exposure To Unsafe Drinking Water and Its Implications on Health-A Case Study of Tripura
Dr. Mousami Debbarma	Holy Cross College, Jubatara	13/03/2021	Holy Cross College, Jubatara	'Agricultural Knowledge system and practices of Tripuri communities' at the workshop on 'Indigenous Knowledge System and Practices of Tribal Communities of Tripura'

# 5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year 2020-21:

Name of Scholars	Part time/ Full time	Research topic	Name of Guide	Registered/ Theses submitted/ Awarded
Mr. Debasish Debbarma	Full Time	Salient features of Auto Rickshaw Transport services in Agartala Municipal Corporation area in Tripura: A Geographical Appraisal	Dr. Saptarshi Mitra	Awarded
Ms. Sudeshna Debbarma	Full time	Spatial Dimension of Bilingualism and Language Shift among Boroks in Tripura	Dr. Mousami Debbarma	Registered
Ms. Sudipta Pal	Part time	Assessment of Hydro-Morphological Parameters for the Management of Watershed: A case study of the Haora Drainage basin, Tripura.	Dr. Nibedita Das (Pan)	Registered
Mr. Pradip Debnath	Full time	Impact of National Highways upon Regional Development of Tripura: A Geographical Appraisal	Dr. Saptarshi Mitra	Registered
Mr. Asif Iqbal Shah	Full time	To be decided	Dr. Nibedita Das (Pan)	Pre Ph.D Course Work
Ms. Manika Mallick	Full time	To be decided	Dr. Y.V. Krishnaiah	Pre Ph.D Course Work
Ms. Deepa Rai	Full time	To be decided	Dr. Y.V. Krishnaiah	Pre Ph.D Course Work

## 6. Outreach Footprint of the Department:

#### 6.1 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership		
Stabak Roy	Regional Studies Association	Individual		

### 6.2 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
	Introduction to Python for GIS	Duno	8 Days	10.08.2020 to
	introduction to Fytholi for dis	Pune         8 Days         10.08.2020           Jorhat         12 Days         14.08.2020           25.08.2020         25.08.2020           Bikaner         5 Days         21.09.2020           25.09.2020         25.09.2020           14         01-14 December	17.08.2020	
Mrs. Jimmi	Global Seismology & Tectonics	lorhat	12 Days	14.08.2020 to
Debbarma	Global Seismology & Tectonics	25.08.20 21.09.202	25.08.2020	
GIS & Remote Sensing	CIC & Domoto Sonsing	Dikanar	E Dave	21.09.2020 to
	GIS & Remote Sensing	DIKAHEI	5 Days	25.09.2020
Dr. Saptarshi	Refresher Course on "Teachers on using	FDC, Tripura	1.4	01-14 December,
Mitra	ICT for Online Teaching Learning Process"	University	Pune         8 Days         10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2020

#### 7. Major thrust areas of research:

- 1. Fluvial Geomorphology with focus on Hazards Analyses and Disaster Risk Reduction Strategies.
- 2. Applied Climatology, Land and Water resources & Watershed Management.
- 3. Application of Remote Sensing and GIS.
- 4. Environment, Population and Resource Geography.
- 5. Regional Planning and Development.
- 6. Rural Studies.
- 7. Urban Studies and urban problems.
- 8. Transport Planning.
- 9. Tourism Geography.
- 10. Population Studies with focus on Development.

#### 8. Teaching Laboratory/ Research Laboratory:

Total No. of Lab	No. of Tooching Lab (A)	No. of Research Lab (B)
(A+B)	No. of Teaching Lab (A)	(Build up with Project Funding)
04	Remote Sensing & G.I.S. Lab, Resource & Disaster Management Lab,	Regional Planning, Urban & Rural Development Lab.
04	Fluvial Hazard Analysis Lab.	(DST, DBT, ICSSR)

### 9. Major Instruments available in the Department:

- (1) Global Positioning System (GPS)
- (2) Total Station
- (3) Soil Erosion Monitoring System
- (4) Soil Resistivity Meter



# 10. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Dr. Y.V. Krishnaiah	-	UGC-STRIDE (collaboration withHCUC, Garwahal University and NITI-Aayog.	Water Conservation and Harvesting Strategies	2.90	2.40	9 months
Mrs. Jimmi Debbarma	-	Ministry of Earth Sciences, Govt. of India	Continuous measurement of crustal deformation using GPS in the Tripura fold belt.	109.69	5.50	4 years 04 months
Dr. Saptarshi Mitra	Mr. Samrat Hore	DST, Govt. of India	Identification, Assessment and Model Building of Urban Morphology using Geospatial Techniques A Study of Border City Agartala, Tripura	20.39	5.36	2 years
Dr. Saptarshi Mitra	Dr. Punarbasu Choudhuri	DBT, Govt. of India	Environmental Impact of Anthropogenic Activities on Wetland Bio-Diversity of Rudrasagar Lake, The Ramsar Site of Tripura	66.55	-	3 years
Dr. Saptarshi Mitra	-	ICSSR, Govt. of India	Tribal Culture and Problems, Prospects and Strategies for Development of Tourism Economy in Tripura: A Geographical Appraisal	7.45	-	2 years

# 11. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

Name of Teacher	Name of other Universities / Institutes / Industry		Year (2020-21)
Dr. Saptarshi Mitra	University of Calcutta	DBT PROJECT	2019-2020

# 12. Students qualified in various public examinations in the Academic year2020-21 from the Department:

Name	Sex (M/F)	Category (GEN/ ST/SC/ OBC/EWS/MIN)	PH (Yes /No)	Name of the Organization/ Institution	Name of the Examination (NET/SLET/GATE/ CAT/ SSC/UPSC/ TPSC/Others/ SWT*/SWO**
Mr. Amit Biswas	М	SC	No	UGC Net - National Testing	NET
				Agency	



Ms. Bulti Das	F	SC	No	UGC Net - National Testing	NET
				Agency	
Mr. Miman Islam	М	OBC	No	West Bengal College Service	SET
				Commission	

<sup>\*</sup>Students Opting for Higher Studies With Examination;\*\*Students Opting for Higher Studies Without Examination.

# 13. Details of Student's Placement known to the Department:

Name	Sex (M/F)	Category (GEN/ ST/SC/ OBC/EWS /MIN)	PH (Yes /No)	Name of the Organization/ Institution	Designation	Examinati on Body	Name of the Examinat ion
Dr. Debasish Debbarma	М	ST	NO	Netaji Subhas Mahavidyalaya,	Guest Faculty	Tripura University	GDC, Govt of Tripura
Mr. Jony Hrangkhawl	М	ST	NO	ICSSR Project, Deptt. of Geography & Disaster Management, T.U.	Research Assistant	-	Through Interview
Mr. Joshua Kaipeng	М	ST	NO	NITI Aayog Project (UGC- STRIDE Scheme collaboration with Himalayan Central Universities Consortium (HCUC), Garwahal University)	Field Investigator	-	Through Interview
Mr. Karan Chakma	М	ST	NO	NITI Aayog Project (UGC- STRIDE Scheme collaboration with Himalayan Central Universities Consortium (HCUC), Garwahal University)	Field Investigator	-	Through Interview



Head of the Department : Dr. Dipayan Chaudhuri

Year of Establishment : 2007

Programmes on offer : M.Sc. and Ph. D. in Human Physiology.

Intake capacity : 35

#### Major achievements/ Vision of the Department:

The Department of Human Physiology was established in 2007 as an independent department which was earlier part of life science programme of the university. The department strives for excellence in biomedical research and education to advance human health and welfare. At present, the department, is having 4 full-time faculty members with sufficient, non teaching and technical staff members apart from several full time and part time research fellows. The basic principle that provides the foundation for the study of human physiology is the maintenance of homeostasis through the operation of complex control systems encompassing all levels of the hierarchy of human structure and function (i.e., cells, tissues, organs, and organs systems). Therefore, the course in the curriculum emphasizes an integrated study of humans across this hierarchy of structure and function. Faculty of the Department of Human Physiology plays a major role in teaching to postgraduate students. Along with teaching, the faculty in the Physiology Department conducts outstanding, cutting-edge research on fundamental functions of cells and tissues. There is also keen interest in the cellular and molecular basis of diseases and translation of basic science research to develop novel therapeutic approaches. During the period the department has established a fully functional Biotech Hub with financial support from Department of Biotechnology, Government of India. The hub is engaged in providing training on modern research in biotechnology to young researcher from the state along with providing infrastructural support with various modern instruments to the researchers not only from the university but also from other institution of the state. The vision of the department to take health care research from bench to bedside, to translate the findings of laboratory research into clinical application that can result in new methods of diagnosis, treatment or prevention is of diseases that is challenging human population as a whole.

#### 1. Faculty Members:

						Ph	ı.D	Master Th	nesis		
					<del>/</del> 5	Guid	ance	Guidan	ce		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Prof. Samir Kumar Sil	Ph. D	Professor	Full Time	Cell Signaling., Biochemistry, Wound healing physiology, cancer biology, Molecular Genetics	28 years	06	02	06	10	371	09

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Prof Debasish Maiti	Ph. D	Professor	Full Time	Immunology, Cancer biology and Cell Signalling	Teaching 13 years, research 19 years	03	04	06	10	987	14
Dr Dipayan Choudhuri	Ph. D	Associate Professor & Head	Full Time	Endocrinology and Reproductive Physiology	Teaching 31 years Research 33 yrs.	05	04	06	11	270	09
Dr. Sudipta Pal	Ph.D	Assistant Professor	Full Time (on- lien)	Biochemistry, Nutrition and Toxicology	Teaching 11 years	-	-	-	-	290	10

<sup>\*</sup>Must be mentioned

- 2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:
- 2.1 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

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Main Author	Co- Authors	Title	Local/ National/ Inter- national	Name of the Journal/ Proceedings/ Magazine	Vol- ume	Year (2020 -21)	ISSN/ ISBN/ DOI	Page No.
Md Jashim Uddin	Prasenjit Patari, B. Debnath, SK Nag, SK Sil and K Manna	Ethnomedicinal survey and determination of total alkaloids and phenolics in selected edible plants of Tripura, India	Inter- national	Journal of Medicianl Plants Studies	9(2)	2021	ISSN (E): 2320-3862 ISSN (P): 2394-0530	123- 131
Dipayan Choudhuri	Sandeep Das	Dietary calcium regulates the risk renal injury in high fat diet induced obese rats by regulating renal lipid metabolism, oxidative stress and inflammation	Inter- national (Taylor and Francis Group)	Archives of Physiology and Biochemistry	7	2020	https://doi.or g/10.1080/13 813455.2020. 1746812	1-11
Dipayan Choudhuri	Sandeep Das	Dietary calcium regulates the insulin sensitivity by altering the adipokine secretion in high fat diet induced obese rats	Inter- national (Elsevier)	Life Sciences	250	2020	0024-3205	1175 60
Dipayan Choudhuri	Balaram Sutradhar	Factors Associated with Nutritional Status of Adolescent Schoolchildren in Tripura.	Inter-national (Springer)	Indian Pediatrics	57	2020	0019-6061	4-5
Dipayan Choudhuri	Sandeep Das	Role of dietary calcium and its possible mechanism against metabolic disorders: A concise review	Inter-national (Wiley)	Journal of Food Biochemistry	45	2021	DOI: 10.1111/jfbc. 13697	E369 7 (1- 10)
Dipayan Choudhuri	Soma Choudhuri, Balaram Sutradhar, Sandeep Das	Ameliorative role of selenium and zinc against reproductive toxicity due to exposure to a mixture of heavy metals lead, cadmium and arsenic in male albino rats	Inter-national An Official Publication of Society of Pharmaceut ical Sciences and Research	International Journal of Pharmaceutc al Science & Research	12	2021	E-ISSN: 0975- 8232; P-ISSN: 2320-5148 Doi: 10.13040/ IJPSR.0975- 8232.12(4).22 70-78.	2270- 2278.
Dipayan Choudhuri	Soma Choudhuri, Sandeep Das,	Modulatory role of selenium and vitamin E ainst oxidative stress induced hepatotoxicity and nephrotoxicity in rats	Inter-national Innovare Academic	Asian Journal of Pharmaceutic	13	2020	ISSN- Online – 2455-3891	113- 117

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	Jahnabi Saha	exposed sub-chronically to hexavalent chromium	Science	al & Clinical Research			Print – 0974- 2441 DOI: 10.22159/ajpc r.2020.v13i8.3 7900	
Dipayan Chaudhuri	Nabamita Nath	Relationship Between Cardio- metabolic Risk Factors and Pulmonary Function in Young Adults	Inter-national	Int. J Sci. Res	9	2020	2277-8179	59-62
Prosun Tribedi	Paul P; Das S; Chatterjee S; Shukla A; Chatterjee P; Sarkar S; Maiti D; Das A	1,4-Naphthoquinone disintegrates the pre-existing biofim of Staphylococcus aureus by accumulating reactive oxygen species	Inter- national	Arch Microbiol		2021	doi.org/10.10 07/s00203- 021-02485-2	
Prosun Tribedi	Paul P; Chakrabort y P; Sarker R K; Chatterjee A; <b>Maiti D</b> ; Das A; Mondal S; Bhattacharj ee S; Ghosh Dastidar D	Tryptophan interferes with the quorum sensing and cell surface hydrophobicity of Staphylococcus aureus: A promising approach to inhibit the biofilm development	Inter- national	3 Biotech	11	2021	doi.org/10.10 07/s13205- 021-02924-3	376
Mousumi Debnath	Majumder D, Sharma KN, Sekhawat SS, Prasad GBKS, Maiti D, Ramakrish na S	Olive oil consumption can prevent non-communicable diseases and COVID-19 : Review	Inter- national	Curr Pharm Biotechnol		2021	doi: 10.2174/1389 20102266621 0412143553	
Debasish Maiti	Majumder D, Debnath R, Nath P, Libin Kumar KV, Debnath M, Tribedi P.	Bromelain and Olea europaea (L.) leaf extract mediated alleviation of benzo(a)pyrene induced lung cancer through Nrf2 and NFkB pathway.	Inter- national	Environ Sci Pollut Res Int.		2021	doi: 10.1007/s113 56-021- 13803-y	
R N Dattapurk ayastha	Bhattacharj ee M, Boruah S R, Ganguly R, Maiti D, Franconetti A, Frontera A, M. Kirillov A, Chowdhury S, Roy S,	Synthesis, characterization, DNA binding ability, in vitro cytotoxicity, electrochemical properties and theoretical studies of copper(II) carboxylate complexes. 518, 120235.	Inter- national	Inorganica Chimica Acta	518	2021	https://doi.or g/10.1016/j.ic a.2020.12023 5	1202 35
Prosun Tribedi	Nath P. Chakrabort y P, Paul P, Kumari M, Bhattacharj ee S, Singh	Attenuation of Pseudomonas aeruginosa biofilm by thymoquinone: an individual and combinatorial study with	Inter- national	Folia Micro- biologica		2021	https://doi.or g/10.1007/s1 2223-020- 00841-1	

	M, Maiti D, Ghosh Dastidar D., Akhter Y, Kundu T, Das Amlan	tetrazine capped silver nanoparticles and tryptophan						
Debasish Maiti	Majumder D, Nath P, Debnath R	Understanding the complicated relationship between antioxidants and carcinogenesis"	Inter- national	J Biochem Mol Toxicol	35	2021	doi: 10.1002/jbt.2 2643	e226 43

## 3. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Prof Samir Kumar Sil	Holy Cross College, Agartala	25 <sup>th</sup> November, 2020	Holy Cross College, Agartala	Recent Trends in Physiology and Physiological Techniques
Debasish Maiti	Tripura University	15/03/21	Tripura University	Protection from enemy
Debasish Maiti	Fatikroy, Tripura	11/07/21	Ambedkar College, Fatikroy, Tripura	Role of nutrition and life style changes in management of cancer
Debasish Maiti	Barrackpore, West Bengal India	18/07/21	Mahadevananda Mahavidyalaya, Barrackpore, West Bengal	Physiology in Higher Education and Public Awareness

# 4. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic Year-2020-21:

Name of Scholars	Par time/ Full time	Research topic	Name of Guide	Registered/Theses submitted/ Awarded
Sushmita Saha	Full time	Molecular and cellular studies on wound healing activities of Parkia javanica, a medicinal plant of Tripuira, Northeast India	Prof. S. K. Sil	Awarded
Sandeep Das	Full Time	Studies on the Metabolic Effect of Low and High Calcium Diet on Adepocytes of Rats	Dr D. Choudhuri	Awarded
Rahul Debnath	Full time	Studies on the effect of Pineapple extract (Bromelain and Peroxidase) on Leukemia and Lymphoma: An in-vitro and in-vivo approach	Prof. Debasish Maiti	Awarded
Nabamita Nath	Part Time	Study of Correlates of Metabolic Syndrome among Young Adults from Tripura	Dr D. Choudhuri	Theses Submitted
Debabrata Majumder	Full Time	Effect of Certain Cytokines and Natural Supplements on Benzol (a) Pyrene Induced Lung Cancer	Prof D. Maiti	Public Seminar Completed
Kanak Chakraborty	Full Time	Molecular Studies on HPV Genotypes and Cervical Cancer Pathogenesis in the Population	Prof SK Sil	Completed Course work/ Synopsis submitted
Achinta Singha	Full Time	Evolution of Wound Healing, Regenerative and Angiogenesis Properties of	Prof SK Sil	Completed Course work/ Synopsis

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		Pathochemical Loaded Polymers and Polymeric Nanoparticle using Cellular and Animal Models		submitted
Adrita Nandi	Full Time	Perusing Course Work	Prof SK Sil	Started Course work
Panisree Roy Chowdhury	Full time	Perusing Course Work	Dr D. Choudhuri	Started Course work
Susmita Sarkar	Full time	Perusing Course Work	Dr D. Choudhuri	Started Course work
Tamanna Akhter	Full time	Perusing Course Work	Prof. Debasish Maiti	Started Course work
Snehasish Modak	Full time	Perusing Course Work	Prof. Debasish Maiti	Started Course work

- 5. Outreach Footprint of the Department:
- 5.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/Workshops/ Symposia Lecture/ Talk	Internatio nal/ National	No. of Participants
01.	September 21, 2020	1 Day	Protection Against COVID-19	Webinar	National	45
02.	November 24, 2020	1 day	Well-being of Students during COVID-19 Pandemic	Webinar	National	30

#### 5.2 In Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership	
Debasish Maiti	Indian Immunology Society. Indian Science Congress Association, India Physiological Society of India, India Indian Societies of Cell BiologySociety for Biotechnologists (India). American Physiological Society (2006 –till date).	Life member of all mentioned societies except American Physiological Society	
Prof Samir Kumar Sil	American Physiological society, Indian Society of Human Genetics, Physiological Society of India, Indian Science Congress association,	Life member of all mentioned societies except American Physiological Society	
Dr. D. Choudhuri	Physiological Society of India, Society of Biological Scientist of India, Indian Science Congress Association	Life member of all mentioned societies	

### 6. Major thrust areas of research:

- i. Prof. S.K.Sil : a) Use of natural products to prevent cancer progression and to elicit wound healing process. b) HPV and cervical cancer c) evaluation of medicinal properties of natural products
- ii. **Prof. D. Maiti**: Use of rodents as leukemia models and benzo(a)pyrene as lung cancer model to understand functions of immune cells in leukemic condition. Expression of different genes and their signaling process in leukemia cell line and effect of different plant extract collected from north east states of India, mainly from Tripura to observe the biological activity specifically against leukemia and lung cancer.

iii. **Dr. D. Choudhuri**: a) Reproductive toxicity of Heavy metal and Ameliorative effects of Natural antioxidants b) Correlate of cardio-metabolic and pulmonary disorders in different groups of population c) Obesity and associated conditions and its prevention.

### 7. New initiatives/Innovations:

Initiated research work in many emerging health issues. In future it can be started Skill based job oriented Programs like Diploma, Bachelor and Master Degree in Medical Laboratory Technology in the department. To establish International collaboration & IPR Generation.

#### 8. Teaching Laboratory/ Research Laboratory:

To	otal No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B) (Build up with Project Funding)					
	07	03	04					

#### 9. Major Instruments available in the Department:

Real time PCR, Water purifier, Centrifuge, Spectrophotometer, Trademill, Bacteria culture laboratory, Trinocular upright Microscope, Tissue processor, Microtome, Semi-auto analyser, Hematological analyser, Laminar flow, Inverted microscope.

**State Biotech Hub:** Mammalian cell culture set up, Inverted microscope, Fluorescence Microscope, PCR, Real-time PCR, -80 Freezer, Ice Maker, Plate Reader. ELISA reader, Water Purifier, Sonicator, Blood Analyser, Ultracentrifuge, CO<sub>2</sub> incubator, Laminar Flow, Sonicator, blood analyzer.

**Sponsored Projects**: Chemiluminisence, Gel – Electrophoresis Set, RT-PCR, ELISA Reader, Rotavapor

### 10. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Prof Samir Kumar Sil	Prof Parimal Karmakar	DBT, Govt. of India	Development of polyherbal based function biopolymer hydrogel for delivery of novel healing agents in excision and burn wound	75.43	30.7	3 Years
Prof. Debasish Maiti	Dr. Samiran Saha	DBT, Govt of India	Study of Induction and mechanisms of autophagy in EAC cells upon treatment with Theaflavins	49.72 lakhs	Nil	3 years
Dr. Dipayan Choudhuri	-	ICMR, Govt. of India	Studies on the effect of calcium intake on adipocyte calcium sensing receptor activity and pathogenesis of diet induced obesity and insulin resistance in rats.	24.53 lakhs	6.50 lakhs	2 years

## 11. Awards/Medals/Honours\*(State/National/International level) received by the Teachers during the academic year 2020-21:

Name of Teacher	Name of	Date of	Awarding	Remarks
Name of Teacher	Awards/Medals/Honours	Awards/Medals/Honours	Agency/Institution	Reilidiks
Prof Samir Kumar Sil	UGC Observer	July 12, 2021	UGC	-

<sup>#</sup> In case of sports, inter university, zonal may also be considered.

## 12. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

Name of Teacher	Name of other Universities / Institutes / Industry	Collaboration on Project	Year (2020-21)
Prof. Debasish Maiti Visva Bharati University		DBT project	2019-2022
Prof. Samir Kumar Sil	Jadavpur University	DBT	2019-2022

## 13. Students qualified in various public examinations in the Academic year 2020-21 from the Department:

	Sex	Category (GEN/	PH	Name of the	Name of the Examination (NET/
Name		ST/SC/	(Yes	Organization/	SLET/ GATE/ CAT/ SSC/ UPSC/
	(M/F)	OBC/EWS/MIN)	/No)	Institution	TPSC/ Others/ SWT*/SWO**
Snehasish Modak	М	GEN	NO	TU	RET, TU*
Tamanna Aktar	F	MIN	NO	TU	RET, TU*
Panisree Roy Chowdhury	F	GEN	NO	TU	RET, TU*
Susmita Saha	F	GEN	NO	TU	RET, TU*
Adrita Nandi	F	GEN	NO	TU	RET, TU*
Puspita Dey	F	GEN	NO	TU	GATE, SET

<sup>\*</sup>Students Opting for Higher Studies With Examination;\*\*Students Opting for Higher Studies Without Examination.

### **DEPARTMENT OF INFORMATION TECHNOLOGY**

Head of the Department : Dr. Swanirbhar Majumder

Year of Establishment : 2009 (Previously part of School of CS and IT since 2002)

Programmes on offer : Ph.D., 2-year M.Tech. in Information Technology (IT)

and 2 Years Master of Computer Applications (MCA)

Intake capacity : M.Tech. in IT (20+2) and MCA (45+5)

#### Major achievements/ Vision of the Department:

The vision of the department is to become a Centre of Excellence and contribute to the society through excellence in scientific and knowledge-based education utilizing the potential of Information Technology with a deep passion for wisdom, culture and values. To produce quality IT professionals capable of adapting to the changing environment and contribute to the growth of the Nation. After all, in this age of Digital India, Smart phones and Cities all around, cloud computing, big data analytics we are indispensable part of everybody's day to day life.

Initially on inception the department was running the 3-year Bachelors in Computer Applications (BCA) and the 3-year Master in Computer Application (MCA). The undergraduate (UG) program of BCA was discontinued from 2015 and the last batch of those UG students passed out in 2018. The department has started the 2-year M. Tech in Information technology (IT) program from the session 2019-20. The Department has been catering to the need of the University for the mandatory Computer Skills foundation courses for all PG programs. The UG programs of the University like 3 years Bachelors in Computer Applications (BCA) and BSc in Information Technology (IT) are governed by the Board of Undergraduate Studies (BUGS) of the department. As per AICTE and UGC notification the duration of MCA programme from the Academic Year 2020-21 is to be changed to 2 years according to the resolution taken in the 545<sup>th</sup> meeting of UGC held in December'2019.

Just before the pandemic situation the department had organized two (02) international conferences in AY 2019-21. One of these conferences was sponsored by North Eastern Council (NEC), Shillong along with three (03) AICTE ATAL sponsored offline workshops. In this academic year 2020-21 the department admitted two (02) working professionals in the Part-Time-Visveswariya PhD seats allotted to the University by Meity, Govt. of India. In the current academic year two (02) online faculty development programs were organized by the department and one (01) as a CALEM HRDC remote center of Aligarh Muslim University. One of the two programs was jointly organized with Department of Electronics and Communication Engg of Tripura University where as the other was the 3<sup>rd</sup> edition of yearly faculty development program conducted by the department.



1. Faculty Members:

1. Faculty					iching/ erience	Ph. Guida		Mas The Guid	esis		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Swanirbhar Majumder	PhD (JU), M.Tech (CU), B.Tech (NEHU)	Associate Professor	Full Time	Biometrics, Soft Computing, Image Processing, Biomedical Signal Processing, Natural Language Processing	15	02+0 3 (sub mitte d)	03+ 02#	18	01	393	11
Dr. Alak Roy	PhD (CSE), MTech (IT), B.Tech (CSE)	Assistant Professor	Full Time	Wireless Networks, Sensor Networks, MAC Layer Algorithms, Underwater acoustics and communications, Internet of Things, and Topics covering Computer Networks.	11	01 (sub mitte d)	02	19	04	437	9
Sri Jayanta Pal	Ph.D. (Thesis Submitt ed), M.Tech (CSE),	Assistant Professor	Full Time	Quantum-dot Cellular Automata, Quantum Computing, Cognitive Learning	08	Nil	Nil	9	1	18	3
Sri Swarup Nandi	PhD (Pursuin g), M.Tech, B.Tech	Assistant Professor	Contr actual	Digital Electronics, ICT, Microprocessors, Biometric Recognition, Biomedical Signal Processing	16.5	Nil	Nil	23	1	4	1
Dr. Sumanta Saha	PhD, M.Tech, MCA	Assistant Professor	Contr	Image Processing, Fuzzy set and logic	13.6	-	-	-	-	-	01
Sri Bhaskar Biswas	M.Tech, B.Tech,	Guest Teacher	Guest	Linear Cryptanalysis	05	-	-	-	-	-	-

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

## 2.1 Books:

	Main Author Co- Authors		Title	Local/National/ International	Publishers	Year (2020-21)	ISBN
	J. K. Mandal	S. Mukhopadhyay,	Applications of Internet of Things	International	Springer,	2021	ISSN 2367- 3389
Į		A. Roy	internet of fillings		Singapore		3309

<sup>• #</sup> Extra Seats under Part-Time Visvesvarya PhD Scheme under MeiTY, Govt. of India.



## 2.2 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ Inter- national	Publishers	Year (2020- 21)	ISBN	Page No.
M. Bhatta- charya	A. Roy, J. Pal	Smart Irrigation System Using Internet of Things	Mandal J., Mukhopa dhyay S., Roy A.	Applications of Internet of Things	Inter- national	Springer	2021	978-981-15- 6198-6	119- 129
M. Devi	A. Roy	Angle-Based Feature Extraction Method for Fingers of Hand Gestures Recognition	Mandal J., Mukhopa dhyay S., Roy A.	Applications of Internet of Things. Lecture Notes in Networks and Systems, vol. 137	Inter- national	Springer, Singapore	2021	ISBN 978- 981-15- 6198-6 https://doi. org/10.1007 /978-981- 15-6198- 6_17	187- 192
M. Devi	A. Roy	Recognition of Indian Classical Dance Single-Hand Gestures Using Moment Invariant Features	Kar N., Saha A., Deb S.	Trends in Computation al Intelligence, Security and Internet of Things. ICCISIOT 2020. Communicati ons in Computer and Information Science, vol 1358	Inter- national	Springer, Cham	2020	https://doi. org/10.1007 /978-3-030- 66763-4_7	73-80
M. Bhatt- acharya	A. Roy	Smart Border Security System Using Internet of Things	Kar N., Saha A., Deb S.	Trends in Computation al Intelligence, Security and Internet of Things. ICCISIOT 2020. Communicati ons in Computer and Information Science, vol 1358	Inter- national	Springer, Cham	2020	https://doi. org/10.1007 /978-3-030- 66763- 4_23.	268- 279
Ranadhir Debanath	S. Nandi, S. Majumder	Fingerprint Authenticati on System for BaaS Protocol	Mandal J., Mukhopa dhyay S., Roy A.	Applications of Internet of Things	Inter- national	Springer	2021	978-981-15- 6198-6	39-48

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Joyanta Basu	Swanirbhar Majumder	Performance Evaluation of Language Identificatio n on Emotional Speech Corpus of Three Indian Languages	Siddharth a Bhatta- charyya et al. (Eds)	Advs in Intelligent Syst., Computing, Vol. 1279	Inter- national	Springer	2020	978-981-15- 9289-8	55-63
Joyanta Basu	Swanirbhar Majumder	Speaker Identificatio n in Spoken Language Mismatch Condition: An Experimenta I Study	Bhattacha ryya S., Mršić L., Brkljačić M., Varghese Kureethar a J., Koeppen M.	Advances in Intelligent Systems and Computing, vol 1333	Inter- national	Springer	2021	978-981-33- 6966-5_8	77-84
T. G. Meitei,	S. A. Singh, and S. Majumder	Hardware based Analysis of PCG Signal for Heart Conditions	Singh B., Coello Coello C.A., Jindal P., Verma P. (eds)	Intelligent Computing and Communicati on Systems. Algorithms for Intelligent Systems.	Inter- national	Springer	2021	978-981-16- 1295-4_14	133- 141
JoyantaBa su	T. R. Hrangkhawl, T. K. Basu and Swanirbhar Majumder	Identificatio n of Two Tribal Languages of India: An Experimenta I Study	Amita Dev, Arun Sharma, and S. S. Agarwal (Eds.)	Artificial Intelligence and Speech Technology	Inter- national	Routlage, Taylor an Francis	2021	978-100-31- 506-64	221- 230
S. A. Singh	S. A. Singh, S. Majumder and N. D. Devi	A Study on Sleep Stage Classification Based on a Single Channel EEG Signal	S. L. Tripathi, K. Prakash, V. E. Balas, S.K. Mohapatr a and J. Nayak	Electronic Devices, Circuits, and Systems for Biomedical Applications: Challenges and Intelligent Approach	Inter- national	Elsevier Academic Press.	2021	978-032-38- 517-25	135- 152
Sucheta Ningomb am	Swararina Lodh, Swanirbhar Majumder	Computing Mortality for ICU Patients Using Cloud- Based Data	Bansal J.C., Fung L.C.C., Simic M., Ghosh A.	Advances in Applications of Data- Driven Computing. Advances in Intelligent Systems and Computing	Inter- national	Springer, Singapore	2021	978-981-33- 6919-1 vol 1319	141- 166

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## 2.3 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ Inter- national	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020 -21)	ISSN/ ISBN/ DOI	Page No.
J Pal	M Noorallahzadeh, JS Sharma, D Bhowmik, AK Saha, B Sen	Regular Clocking Scheme based Design of Cost-efficient Comparator in QCA	Inter- national	Indonesian Journal of Electrical Engineering and Computer Science	21	2021	10.11591 /ijeecs.v 21.i1. pp44-55	44- 55
J Pal	D Bhowmik, AR Singh, AK Saha and B Sen	Synthesis of Composite Logic Gate in QCA Embedding Underlying Regular Clocking	Inter- national	Facta Universitatis, Series: Electronics and Energetics	34	2021	https://d oi.org/ 10.2298/ FUEE2101 115P	115- 131
J Pal	AK Pramanik, JS Sharma, AK Saha, B Sen,	An Efficient, Scalable, Regular Clocking Scheme based on Quantum dot Cellular Automata	Inter- national	Analog Integrated Circuits and Signal Processing, Springer	107	2021	10.1007/ s10470- 020-0 1760-4	659- 670
M Goswa mi	J Pal, M Roy Chowdhury, P P. Chougule, B Sen	In Memory Computation using Quantum-dot Cellular Automata	Inter- national	IET Computers & Digital Techniques	14	2020	10.1049/ iet-cdt. 2020. 0008.	336- 343
D Bhowm ik	<b>J Pal</b> , P Sen, M Goswami, AK Saha and B Sen	Systematic Cell placement in Quantum-dot Cellular Automata Embedding Underlying Regular Clocking Circuit	Inter- national	IET Circuits, Devices & Systems	15	2020	10.1049/ cds2. 12015	156- 167
A. Roy	N. Sarma	Multichannel Ordered Contention MAC Protocol for Underwater Wireless Sensor Network	Inter- national	The Computer Journal (SCI)	64	2021	https://d oi. org/10.10 93/ comjnl/ bxaa107	185- 194
A. Roy	N. Sarma	A Synchronous Duty- Cycled Reservation Based MAC Protocol for Underwater Wireless Sensor Networks	Inter- national	Digital Communications and Networks, Elsevier (SCI)	05	2020	https://d oi. org/10.10 16/ j.dcan. 2020.09.0	Nil
A. Roy	N. Sarma	RPCP-MAC: Receiver Preambling with Channel Polling MAC Protocol for Underwater Wireless Sensor Networks	Inter- national	International Journal of Communication Systems , John Wiley & Sons Ltd (SCI)	33	2020	https://d oi.org/ 10.1002/ dac.4383	Nil
Joyanta Basu	Soma Khan, Rajib Roy, Tapan Kumar Basu, Swanirbhar Majumder	Multilingual Speech Corpus in Low- Resource Eastern and Northeastern Indian Languages for Speaker and Language Identification	Inter- national	Springer Journal of Circuits Syst Signal Process		2021	https://d oi.org/ 10.1007/s 00034- 021- 01704-x ()	
S. A. Singh	S. A. Singh, S. Majumder and N. D. Devi	Heart Abnormality Classification Using PCG and ECG Recordings		Computación y Sistemas	25	2021	ISSN 2007- 9737, doi: 10.13053 / CyS-25-2- 3447	381– 391

Swarup Nandi	Swanirbhar Majumder and Sujan Das	Overview of Different Healthcare Data using Al and Wearable Devices	Inter- national	Application of ArtificialIntelligence and Computational Mathematics (AAICM – 2020)	ı	Dece mber 2020		23
M. S. Meetei	A. D. Singh, S. Majumder, O. Moyong	A Mathematical Modelling And 3D Simulation of ZnO Piezoelectric Base Cantilever For Pressure Sensing	Inter- national	IJSTR (International Journal of Scientific & Technology Research)	9	2020	ISSN 2277- 8616	37- 41
Susmit a Das	Swanirbhar Majumder	Lung Cancer Detection Using Deep Learning Network: A Comparative Analysis	Inter- national	IEEE Conference Proceedings of Fifth International Conference on Research in Computational Intelligence and Communication Networks		2020	DOI: 10.1109/ ICRCICN 50933. 2020. 9296197 ISBN: 978-1 -7281- 8818-8	CFP 20D0 1- ART
Maiba m Sanju Meetei ,	H. S. Singh, A. D. Singh, Swanirbhar Majumder	A Novel Design And Optimization For Beam Bridge Piezoelectric Pressure Sensor	Inter- national	International Journal of Advanced Research in Engineering and Technology (IJARET),	11	2020	DOI: 10.34218 / IJARET.11 .12 ISSN Print: 0976- 6480 and ISSN Online: 0976- 6499	2687 - 2701
Maiba m Sanju Meetei	Aheibam Dinamani Singh, Swanirbhar Majumder	A Novel Design Approach for Beam Bridge Structure Pressure Sensor Base on PZT 5A	Inter- national	Journal of Engineering Science and Technology Review (JESTR)	14	2021	ISSN: 1791- 2377	193 – 199

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Meetei

Majumder

on PZT 5A Piezoelectric

Name	Teacher/Student/Research	Number of Conference/ Seminar/ Workshop attended		
	Scholar	International	National	Institution Level
Jayanta Pal	Teacher	0	11	1
Dr. Alak Roy	Teacher	0	1	1
Swarup Nandi	Teacher	1	11	4
Swanirbhar Majumder	Teacher	1	7	1

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Jayanta Pal	Tripura University	29 <sup>th</sup> July 2021	Tripura University	Introduction to Programming Language



Jayanta Pal	Tripura University	28 <sup>th</sup> July 2021	Tripura University	Tools for Effective Academic  Presentation
Jayanta Pal	Delivered Online	18 <sup>th</sup> February 2021	Government Degree College Dharmanagar	Canvas- A Learning Management System
Jayanta Pal	Delivered Online	3 <sup>rd</sup> February 2021	K K Wagh Institute of Engineering Education & Research, Nashik, Maharashtra	Quantum Computing
Jayanta Pal	Delivered Online	19 <sup>th</sup> December 2020	Tripura University	Introduction to Mendeley and Zotero
Jayanta Pal	Delivered Online	21 <sup>st</sup> October 2020	Sri Ramakrishna Engineering College, Tamil Nadu	Underlying Clocking Scheme in QCA
Dr. Alak Roy	National Webinar on  "Innovative approaches to Content Delivery and Evaluation of Learners through Digital Platform"	12 June 2021	Department of Physics & Department of History, Govt. Degree College, Dharmanagar,	Evaluation of Learner through Digital Platforms
Dr. Alak Roy	International Webinar on "Application of ICT in Higher Education during Covid-19 Pandemic",	2 September, 2020	Government Degree College, Kamalpur in collaboration with Indira Gandhi National Open University, Agartala,	Fighting Covid19 Pandemic with ICT in Educational Institutions
Dr. Alak Roy	3rd One-Week National Workshop on Emerging Tools and Technologies in Research (ETTR 2020)	16 Dec, 2020	Department of Information Technology, Tripura University,	How to Write Your Research Article using Overleaf (LaTeX), A guide for beginner"
Swanirbhar Majumder	3rd One-Week National Workshop on Emerging Tools and Technologies in Research (ETTR 2020)	16 Dec, 2020	Department of Information Technology, Tripura University	Introduction to Learning Management Systems (Piazza)
Swanirbhar Majumder	SWAYAM AWARENESS Program	28 <sup>th</sup> August'2020	Rabindranath Thakur Mahavidyalaya, Bishalgarh	Motives, features and importance of SWAYAM
Swanirbhar Majumder	Webinar on "Distance and Online Education in the backdrop of COVID-19: Issues and Challenges"	19 <sup>th</sup> July'2020	RegionalComputer Lab (RCL), Agartala Regional Centre, IGNOU	Distance and Online Education in the backdrop of COVID-19: Issues and Challenges
Swanirbhar Majumder	Two Week online Refresher Course entitled "Teachers on Using ICT for Online Teaching Learning Process"	1 <sup>st</sup> December, 2020	FDC, Tripura University under PMMMNMTT, MHRD, Department of Higher Education, Govt of India	SWAYAM to Aid Teaching Learning



	141.1.1			
Swanirbhar Majumder	Webinar on "Cyber Crime against Women: Precautions and Strategies"	20 <sup>th</sup> December, 2020	Generation Welfare Society and National Commission for Women, New Delhi	Cyber Safety Regulations for Crime Against Women: Precautions and Strategies on Social Media
Swanirbhar Majumder	Short Term Course on "Trends In Electronics and Communication Engineering" 27 <sup>th</sup> to 31 <sup>st</sup> December, 2020	27 <sup>th</sup> December' 2020	Dept of ECE, NIT Manipur	Introduction to Digital Signal Processing and Filters
Swanirbhar Majumder	Webinar on Machine Learning and AI by CSI Student Chapter and Dept of IT, CVR College of Engineering	16 <sup>th</sup> January' 2021	Dept of IT, and CSI Student Chapter of CVR College of Engineering	Emerging Research Areas in Machine Learning
Swanirbhar Majumder	5-Day FDP under ATAL Academy on Management Information System during February8- 12, 2021	8 <sup>th</sup> February' 2021	Dept of Business Management, Tripura University	Cloud-Enabled work Infrastructure for Building and Managing Systems
Swanirbhar Majumder	5-Day FDP under ATAL Academy on Management Information System during February8- 12, 2021	12 <sup>th</sup> February' 2021	Dept of Business Management, Tripura University	AI(Artificial Intelligence) in BI (Business Intelligence)
Swanirbhar Majumder	Workshop entitled, "Emerging Trends in Technology with Focus on Artificial Intelligence and MachineLearning and Nano- Electronics"	28 <sup>th</sup> May'2021	Bharat Institute of Engineering and Technology, Hydrabad	Emerging Research Areas in Al and ML
Swanirbhar Majumder	SWAYAM AWARENESS PROGRAMME for FACULTY & PG STUDENTS	24 <sup>th</sup> June'2021	Trinity College for Women (Arts and Commerce), Namakkal	SWAYAM AWARENESS PROGRAMME for FACULTY & PG STUDENTS

# 5. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of Scholars	Par time/ Full time	Research topic	Name of Guide	Registered/Theses submitted/ Awarded
Dr. Manashee Kalita*	Full Time (in NERIST, AP)	Development of New Steganography Methods in Spatial and Transform Domains	Dr. S. Majumder	Awarded (October'2020)



Dr. Sinam Ajitkumar Singh*	Full Time (in NERIST, AP)	Study of PCG and ECG based Cardiovascular Abnormality Detection	Dr. S. Majumder	Awarded (October'2020)
Maibam Sanju Meetei*	Part Time (in NERIST, AP)	A Systematic Approach forModeling And Designing of MEMS Differential Capacitive Pressure Sensor and Beam based Piezoelectric Pressure Sensor	Dr. S. Majumder	Theses submitted (June'21)
Joyanta Basu*	Part Time (in NERIST, AP)	Language and SpeakerIdentification in Low Resource Indian Languages	Dr. S. Majumder	Theses submitted (June'21)
Tamajoy Deb	Part Time	Applications of Singular Value Decomposition in the Area of Image Processing and Pattern Recognition	Prof. A.  Mukherjee Prof. A. K. Ghosh Dr. S.  Majumder	Pre-Submission Done (March'21)
Sajal Kanta Das	Part Time	Investigation of Application of Wireless Motes InDesigning Smart Buildings	Prof. A. Mukherjee Prof. A. K. Ghosh Dr. A. Roy	Pre-Submission Done (March'21)
Swarup Nandi	Part Time	A Study on Healthcare Systems Using the Cloud Environment	Dr. S. Majumder	PhD Course Work Completed and Synopsis presented (March'21)
Niladri Das#	Part Time (Visvesvarya PhD Scheme under MeiTY, Gol)	Biometric Security (BaaS)	Dr. S. Majumder	Registered (started course work)
Ritam Saha#	Part Time (Visvesvarya PhD Scheme under MeiTY, Gol)	Biomedical Image Processing (Cancer)	Dr. S. Majumder	Registered (started course work)
Payal Karmakar	Full Time	Sensor Networks	Dr. Alak Roy	Registered (started course work)
Pranjal Roy	Full Time	Networks and Machine Learning	Dr. Alak Roy	Registered (started course work)
Smita Das	Part Time	Biomedical Image Processing (DR)	Dr. S. Majumder	Registered (started course work)
Susmita Das	Part Time	Biomedical Image Processing (Lungs)	Dr. S. Majumder	Registered (started course work)

## 6. Outreach Footprint of the Department:

6.1 Refresher/ Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/ Workshops/ Symposia Lecture/ Talk	Inter- national/ National	No. of Participants
1	16-22 February, 2021	7 days	"Teaching Effectively" byCALEM, at the UGC HRDC, Aligarh Muslim University, Aligarh	Online Training Programme on Academic Leadership for Teachers (Dept of IT handled the Tripura University Remote Center),	National	61

2	15-19 December, 2020	5 days	Emerging Tools and Technologies in Research (ETTR 2020)	Workshop	National	139
3	9-13 November, 2020	5 days	Recent Trends in Electronics and Information Technology	Workshop (in collaboration with Dept of ECE, Tripura University)	National	70

## 6.2 Participation in E-Content creation programmes such as e-PG Pathshala, NME-ICT, MOOCs :

SI.	Faculty	aculty Title of E-Content		Available or Not
No.	Names	Title of E-content	Hours	Available of Not
1	Dr. Alak Roy	Introduction to Adhoc& Sensor Network	1 hour	https://youtu.be/UJtNkHfs0rY
2	Dr. Alak Roy	Iterative patterns and processes	1.5 hour	https://youtu.be/SiWC_LZHz5Q
3	Dr. Alak Roy	Teaching Iterative Patterns and Processes Practically	1.5 hour	https://youtu.be/PeUspUkKYJc
4	Dr. Alak Roy	Networking and Internet	1 hour	https://youtu.be/TX5E8XXohSc
5	Dr. Alak Roy	Online Teaching Learning Tools	1 hour	https://youtu.be/NiftZtE8JKQ
6	Dr. Alak Roy	How to Write Your Research Article using Overleaf (LaTeX), A Guide for beginner	1.5 hour	https://youtu.be/vWe3FDvUkk8
7	Dr. Alak Roy	How to Write Your Project Report using Overleaf (LaTeX)	1.5 hour	https://youtu.be/2Cif0Iv-I5w
8	Dr. Alak Roy	Node and Link creation using Network Simulator-2	0.5 hour	https://youtu.be/HGyzG6ROwK 8
9	Dr. Alak Roy	Introduction to Data Communication & Computer Networks	1 hour	https://youtu.be/ot6atRAmqRQ
10	Dr. Alak Roy	Network Models. Data Communication & Computer Networks	1 hour	https://youtu.be/MkZjY-pxnNA
11	Dr. Alak Roy	Physical Layer. Data and Signals	1 hour	https://youtu.be/sxdf6WBay3g
12	Dr. Alak Roy	Transmission media	1 hour	https://youtu.be/N7SxWFcMrK M
13	Dr. Alak Roy	Analog Transmission: AM, FM, PM, ASK, FSK, PSK, QAM	1 hour	https://youtu.be/Kn1ZnqUfoN8
14	Dr. Alak Roy	Digital Transmission	1 hour	https://youtu.be/vevlgajgB84
15	Dr. Alak Roy	Error Detection and Correction: Part-I (Data Link Layer)	1 hour	https://youtu.be/Fxdr6_jSetI
16	Dr. Alak Roy	Error Detection and Correction: Part II (Data Link Layer): Cyclic Codes, Checksum	1 hour	https://youtu.be/zfbHxuWLt9A
17	Dr. Alak Roy	Data Link Control: Part I	1 hour	https://youtu.be/USsxP0DSa6c
18	Dr. Alak Roy	Data Link Control: Part II (Go-Back-N Protocol, Selective Repeat ARQ Protocol)	1 hour	https://youtu.be/ixNcWNPWkN E
19	Dr. Alak Roy	Multiple Access: Part I (ALOHA, Slotted ALOHA, CSMA, CSMA/CD, CSMA/CA)	1 hour	https://youtu.be/utpx2VV1i3M
20	Dr. Alak Roy	Multiple Access: Part II (FDMA, TDMA, CDMA)	1 hour	https://youtu.be/igCzKN3qRqg



21	Dr. Alak Roy	Wired LANs: Ethernet	1 hour	https://youtu.be/bQiFfmjxzbE
22	Dr. Alak Roy	Switching in Computer Networks	1 hour	https://youtu.be/bQiFfmjxzbE

## 6.3 Interaction with Industry/ NGO/ Govt. Organizations by Faculties :

		Name of			Any Grant	Student
SI.	Faculty Names	Industry/	Location of	MOU Signed?	Received?	Placed?
No.	raculty Names	• •	Industry	(Yes/No)	(If yes value in	(If yes,Specify
	NGO				Lakhs)	Number.)
		Abbay	Fire Brigade	No	-	01
1	Swarup Nandi	Abhay	Chowmohani,			
		Misson	Agartala, Tripura			

## 6.4 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Dr. Alak Roy	Association for Computing Machinery (ACM)	Member
Dr. Alak Roy	Institute of Electrical and Electronics Engineers (IEEE)	Member
Dr. Alak Roy	Member, International Association of Engineers (IAENG)	Member
Dr. Alak Roy	International Association of Academicians (IAASSE)	Executive Member
Dr. S. Majumder	IEEE (Institute of Electrical and Electronics Engineers) Society	Senior Member
Dr. S. Majumder	ACM (Association for Computing Machinery) Society	Member
Dr. S. Majumder	IEI (Institution of Engineers India)	Member
Dr. S. Majumder	IETE (Institution of Electronics and Telecommunication Engineers)	Member
Dr. S. Majumder	ISTE (Indian Society for Technical Education)	Life Member
Dr. S. Majumder	IAENG (International Association for Engineers)	Life Member
Dr. S. Majumder	International Association of Academicians (IAASSE)	Executive Member
Swarup Nandi	International Association of Academicians (IAASSE)	Executive Member

## 6.5 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date	
Javanta Dal	Refresher Course	Tripura University	Two	1 <sup>st</sup> to 14 <sup>th</sup> December,	
Jayanta Pal	Refresher Course	Tripura University	Weeks	2020	
	Online Training Programme on	CALEM, at the UGC		16 – 22 February	
Dr. Alak Roy	Academic Leadership (Equivalent to	HRDC, Aligarh Muslim	7 days	2021	
	Refresher Course),	University, Aligarh		2021	
	Two-week Refresher Course:	Faculty Development		01-14 December,	
Dr. Alak Roy	"Teachers on Using ICT for Online	Centre, Tripura	14 days	2020	
	Teaching Learning Process",	University			
Dr. Alak Roy	One Week online FDP on Internet of	Central University of	5 days	14-18 Sept, 2020	
DI. Alak NOy	Things (IoT)	Jharkhand, Ranchi,	3 uays	14-18 Sept, 2020	
Dr. Alak Roy	One Week online FDP on Sensors	Tripura University,	5 days	21-25 Sept, 2020	
Dr. Alak Noy	Technology	impura oniversity,		21-25 Sept, 2020	
	One Week online Faculty	Veer Surendra Sai			
Dr. Alak Boy	Development Programme on	University of	e dave	05 10 Sant 2020	
Dr. Alak Roy	Emerging Technologies: theory and	Technology, Burla,	6 days	05-10 Sept, 2020	
	Applications (ETTA-2020)	Odisha,			

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	LICC on angular difference Description			
Swarup Nandi	UGC sponsored Training Programme (Refresher) under PMMMNMTT on "Teaching Effectively"	Online	One Week	February 16 – 22, 2021
Swarup Nandi	ATAL FDP on "Data Science"	Online	5 days	February 01 – 05, 2021
Swarup Nandi	ATAL FDP on "Computer Science & Biology"	Online	5 days	January 19 – 23, 2021
Swarup Nandi	ATAL FDP on "Blockchain Technology"	Online	5 days	November 02 – 06, 2020
Swarup Nandi	ATAL FDP on "Blockchain and its Applications"	Online	5 days	September 07 – 11, 2020
Swarup Nandi	ATAL FDP on "Wearable Technology in Healthcare"	Online	5 days	September 21 – 25, 2020
Swarup Nandi	International FDP on "Technologies for Societal Needs – Real time applications of AI, ML and Research initiatives"	Online	5 days	August 3 – 7, 2020
Swarup Nandi	FDP on "Recent Trends in Electronics and Information Technology (RTEIT-2020)"	Online	5 days	November 09 – 13, 2020
Swarup Nandi	FDP on "Research Project Grant and Patent filing"	Online	2 days	October 19 – 20, 2020
Swarup Nandi	FDP on "Cyber Security"	Online	One Week	05 – 11, 2020
Swarup Nandi	FDP on "'ICT Tools for Teaching, Learning Process and Institute"	Online	Two Weeks	August 10 – 21, 2020
Swarup Nandi	Workshop on "Emerging Tools and Technologies in Research"	Online	5 days	December 15 – 19, 2020
Swanirbhar Majumder	Online Course on "Remote Sensing & GIS Technology and Applications for University Teachers & Government Officials"	Indian Institute of Remote Sensing (IIRS), ISRO Dehradun	3 weeks	13-06-2020 to 01- 07-2020
Swanirbhar Majumder	Online Faculty Development Programme on "Embedded UVM open-source Emulation & Functional Verification"	Electronics and ICT Academies under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" of the Meity, Gol.	2 weeks	July 13 to 24,2020
Swanirbhar Majumder	Online Faculty Development Programme on "ICT Tools for Teaching, Learning Process and Institute"	Electronics and ICT Academies under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" of the MeitY, Gol.	2 weeks	August 10 to 21,2020
Swanirbhar Majumder	TEQIP III Sponsored Online International Workshop on "Biotechnological Advances and Research"	Department of EE, NIT, Silchar	5 days	August 22 to 26,2020



Swanirbhar Majumder	TEQIP-III sponsored Online workshop on "Applications of Deep Learning Techniques for Communication and Signal Processing"	Department of ECE in association with Department of CSE at NIT Meghalaya	5 days	September 15 to 19,2020
Swanirbhar Majumder	Online Training Programme on "Digital tools for Writing, Authoring & Reviewing Manuscripts"	Electronics and ICT Academies under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" of the Meity, Gol.	2 weeks	21 <sup>st</sup> September to 2 <sup>nd</sup> October'2020
Swanirbhar Majumder	Workshop on Application of Machine Learning for Healthcare	North East Centre for Biological Sciences and Healthcare Engineering (NECBH) IIT Guwahati	2 days	8 <sup>th</sup> and 9 <sup>th</sup> , February 2021
Swanirbhar Majumder	Webinar on "Implementation of New Education Policy-2020"	Organized by Tripura University	2 days	11 <sup>th</sup> and 12 <sup>th</sup> , June 2021
Dr. Sumanta Saha	ATALFDP on "Business Data Analysis Using R Software"			22/9/2020 to 26/9/2020
Dr. Sumanta Saha	ATAL FDP on "Machine Learning Applications in Image and Computer Vision" from organized by	Acropolis Institute of Technology and Research, Indore.	5 days	2/9/2020 to 6/9/2020
Dr. Sumanta Saha	National Webinar on "Internet of things and its impact on Society"	Holy Cross College, Tripura	1 Day	05/09/2020
Dr. Sumanta Saha	FDP on "Energy and Environment: Conversion, generation, storage and efficient utilization"	Department of Electrical and Civil Engineering, NERIST, Arunachal Pradesh	5 days	24/08/2020 to 28/08/2020
Dr. Sumanta Saha	IPR Webinar	NERIST, Arunachal Pradesh	02 days	3rd and 4th August 2020
Dr. Sumanta Saha	International Webinar on "Design with security and ethics"	School of Electrical, Electronics and Communication Engineering Galgotias University.	1 day	22nd August 2020
Dr. Sumanta Saha	Webinar on "New Paradigm of Industry Research Trends in VLSI and Data Science"	Department of ECE,  Bharat institute of  Engineering and  Technology	3 days	on 31 July-02 August, 2020
Dr. Sumanta Saha	FDP on "Technologies for Societal needs – Real time applications of AL, ML and Research initiatives"	Karunya Institute of Technology and Sciences (Deemed to be University), Karunya Nagar, Coimbatore	5 days	3-7 Aug 2020

## 7. Major thrust areas of research:

- Wireless Networks, Sensor Networks, MAC Layer Algorithms, Underwater acoustics and communications, Internet of Things, and Topics covering Computer Networks.
- Machine Learning, Biomedical Signal Processing.

### 8. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B) (Build up with Project Funding)
5	5	-

## 9. Major Instruments available in the Department:

- (a) Benchmark NETSYS-T
- (b) Benchmark WLAT-T
- (c) TI Digital Signal Processing Kit 6713
- (d) HP Server 2 nos
- (e) Microprocessor Kit (8085 and 8086)
- (f) Digital IC Trainer Kit
- (g) CRO

## 10. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. In Lakhs)	Grant received during the year(Rs. In Lakhs)	Tenure(In years and months)
Dr. S. Majumder	Dr. C. N. Gupta, IIT Guwahati	DBT	Multivariate intrinsic mode functions for electroencephalogram signals using single channel	16.00	4.00	2 years 6 months

## 11. Awards/Medals/Honours\*(State/National/International level) received by the Teachers during the academic year 2020-21:

Name of Teacher	Name of Awards/Medals/Honor s	Date of Awards/Medals /Honors	Awarding Agency/ Institution	Remarks
Sumanta Saha	Awarded PhD from 10 <sup>th</sup> July'2020	15 <sup>th</sup> July'2020	Dept of Mathematics, Tripura University	Thesis titled "A Study on Hybridized ICA, PCA, Rough Set Model and its Application in the field of Image Processing"
Swanirbhar Majumder	Best Paper in 2nd International Conference onArtificial Intelligence and Speech Technology(AIST-2020)	20th November, 2020	Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi	International Conference Best Paper Award

# In case of sports, inter university, zonal may also be considered.



## 12. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

Name of Teacher	Name of other Universities / Institutes / Industry	Collaboration on Project	Year (2020-21)
Dr. Alak Roy	Tezpur University (Prof. Nityananda Sarma)	A Study on MAC Protocols for Underwater Sensor Networks	2012-20
Sri Jayanta Pal	NIT Durgapur, West Bengal (Dr. Bibhash Sen)	Quantum-dot Cellular Automata, Fault-Tolerance, Quantum Computing	2019-21
Sri Jayanta Pal	NIT Agartala (Dr. A. K. Saha)	Quantum-dot Cellular Automata, Fault-Tolerance, Quantum Computing	2012-21
Dr. S. Majumder	IIT Guwahati (Dr. C. N. Gupta)	Multivariate intrinsic mode functions for electroencephalogram signals using single channel	2019-21
Dr. S. Majumder	NIT Manipur (Dr. A. Dinamani Singh)	MEMS	2019-21
Dr. S. Majumder	NIT Nagaland (Prof. T. Tuithung)	Image Processing	2016-20
Dr. S. Majumder	RIMS, Manipur (Ms. N. D. Devi)	Biomedical Signal Processing	2020-21
Dr. S. Majumder	CDAC Kolkata (Mr. JoyantaBasu)	Low Resource Languages of North East India	2017-21
Dr. S. Majumder	Rajiv Gandhi University, Arunachal Pradesh (Mr. M. S. Meitei)	MEMS	2017-21
Dr. S. Majumder	NERIST, Arunachal Pradesh (Mr. M. Mishra)	Health Care	2020-21



### **DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE**

Head of the Department : Dr. Rabindra Kumar Mahapatra

Year of Establishment : 2016

Programmes on offer : Bachelor of Library and Information Science (B.Lib.I.Sc)

Master of Library and Information Science (M.Lib.I.Sc)

Ph. D. in Library and Information Science

Intake capacity : B.Lib.I.Sc., -20

M.Lib.I.Sc.-20

### Major achievements/ Vision of the Department:

The Department of Library and Information Science was established in the year 2016 with a view to furnish the libraries in the region with vivid and skilled manpower. The department is imparting one year truncated post graduate diploma program leading to the degree of Bachelor of Library and Information Science (B.Lib.I.Sc.) based on the recommendation by UGC model curriculum in LIS. The department is also conducting 1 year Master of Library and Information Science (M.Lib.I,Sc.) course from the academic session 2017-2018 to provide advanced knowledge on the subject and equipped students with the techniques of managing modern libraries in the digital era since 2018-2019 the department has also started imparting the Ph. D. programme in Library and Information Science. The need for the skilled library professionals having a degree in LIS with technical knowledge is inevitable in any library in this digital era. The courses have been designed, keeping in mind the current scenario of higher education in the field of LIS in India. The Department is working to produce well equipped manpower by offering strong theoretical foundation as well as hands on practical classes, seminars, presentations, curriculum stipulated practical visit to reputed libraries of India, and internship program in Central Library of the University. Four batches of B.Lib.I.Sc and three batches of M.Lib.I.Sc. Students have come out successfully. It is a matter of great privilege and achievement for the department that twenty students have been placed in different capacities as Librarian, Assistant Librarian, Library Trainee in premier libraries in the state of Tripura as well as outside the state such as INFLIBNET, Gandhinagar (Gujarat), Tezpur University (Central), Assam, Central University of Sikkim, Kolkata (WB), Nalanda International University (Bihar), IIT Madras), Chennai, IGNOU (New Delhi), Arunachal Pradesh. Sixstudentshave successfully cleared the UGC-NET and two students UGC-JRF examinations till 2020. Our students are proactively taking part and present papers in various National & International webinars and online conferences and all such co-curricular activities organised in the various Universities and departments through online adding feathers to the department time to time.



1. Faculty Members:

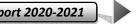
1. Faculty	Members										
	n (c		Fulltime/ Guest/ Contract*	ea	No. of years of Teaching/ Research/job experience	- - - -	Pn.D Guidance	Master Thesis			
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Go	Research area	No. of years Research/jo	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. R.K. Mahapatra	MA, LLB, MLIS, PGDLA N, Ph.D.	Associate Professor & Head	Full time	Library Automation / Computerization / ICT/ Digital Library Initiative User studies / Reading Habits / Inf. Seeking Behaviour Academic Library Information Systems Bibliometric Studies	UG/ PG= 27 Profe ssion al=8	27	6	150	5	Google Scholar =86 Scopus = 16	Googl e Schola r=4 Scopu s= 2
Dr. Mithu Anjali Gayan	MLIS, PGDLAN , NET, JRF, Ph.D.	Assistant Professor	Full time	Citation Analysis, Bibliometrics, Information Literacy	6		2	14	5	Google Scholar =24 Scopus = 4	Googl e Schola r = 3 Scopu s= 1
Mr. Augustine Zimik	MLIS, NET	Assistant Professor	Full time	Documentation, Preservation and Conservation Traditional knowledge, User Studies,	6			15	4	-	-
Mr. Saumen Das	MLIS, NET	Assistant Professor	Guest Faculty	Scientometrics, Bibliometrics, Webometrics ICT	5			13	4	Google Scholar =21	Googl e Schola r=3

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

## 2.1. Books:

			Local/		Year	
Main Author	Co- Authors	Title	National/	Publishers	(2020-	ISBN
			International		21)	
Dr. Sudip	Dr. R. K.	Impact of COVID-	National	Today & Tomorrow's		97881701
Bhattacharje	Mahapatra	19 in Public		Printers and Publishers	2021	97881701
(Ed.)	(Ed.)	Library System		New Delhi		9/102



## 2.2 Book Chapters:

Main Author	Co- Author	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ Inter- national	Publishers	Year (2020- 21)	ISBN	Pag e No.
Mithu Anjali Gayan	Priya Datta	Use and Awareness of Social Media Sites among the students of TIT, Agartala	Prof. Sanjay Singh & Kishor Sharma	Quality Library Services in New Era	National	Eastern Book House	2020	97893904 34046	12 8- 13 7
Jayanti Chakra- borty	Dr. R. K. Maha patra	Covid 19 Impact Libraries and role of e- resources	Dr. Sudip Bhattacharje e & Dr. R. K. Mahapatra	Impact of COVID-19 in Public Library System	National	Today & Tomorrow's Printers and Publishers New Delhi	2021	97881701 97102	10 3- 11 6
Sangita Kalai	Dr. R. K. Maha patra	Role of Public Libraries of Tripura in Preservation and Conservation of Indigenous knowledge	Dr. Sudip Bhattacharje e & Dr. R. K. Mahapatra	Impact of COVID-19 in Public Library System	National	Today & Tomorrow's Printers and Publishers New Delhi	2021	97881701 97102	29- 44
Augusti ne Zimik	-	COVID-19 Pandemic: Impact, Challenges and Opportunities in India's Higher Education	Dr. Indu Upadhyay, Dr. Anushu Sukla & AnjuLata Singh	COVID-19 & Emergency E-Learning Consequenc e and Experiences	National	Star Publication, Agra	2020	97893812 46993	95- 10 9

## 2.3 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ Inter- national	Name of the Journal/ Proceedings/ Magazine	Volume	Year (2020- 21)	ISSN/ ISBN/ DOI	Page No.
Mithu Anjali Gayan	Prof. Sanjay Singh	Citation analysis of Mathematics: a scientometric study based on PhD theses, Tripura University	Inter- national	Library Philosophy and Practice	5167.	Winter 2-18- 2021	1522- 0222	1-15
K Jamatia	Mithu Anjali Gayan	A Scientometrics analysis of Ovarian Cancer Research during 2010 to 2019: with special reference to South Asian contribution	Inter- national	Library Philosophy and Practice	5271	Winter 3-16- 2021	1522- 0222	1-20
Mithu Anjali Gayan	Prof. Sanjay Singh	Citation Analysis of Doctoral Theses in Chemistry: A Study of Tripura University	National	Journal of Indian Library Association	57		ISSN (P) 2277- 5145 ISSN (Online) 2456- 513X	78-91

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	1200

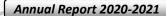
Mithu Anjali Gayan	Derhashar Swargiary	Green Libraries: The Change Agents	Inter- national	What next in libraries? Trends, space and Partnerships		2021	978-93- 80316- 10-9	187– 195
Dipankar Reang	Mithu Anjali Gayan	Authorship Collaboration and visualization on Detention Center Research: A Scientometric study	Inter- national	Library Philosophy and Practice	5057	Winter 2-1- 2021	1522- 0222	1-17
Dr. Panda Siba Prasad	Dr.Maha patra R.K & Mishra R abindra Kumar	A systematic study of online learning platforms in India and its application during covid-19	Inter- national	ACADEMICIA: An International Multi disciplinary Research Journal http://indianjo urnals.com/ijor. aspx?target=ijo r:aca&volume= 10&issue=11&a rticle=026	161- 177	2020, Volume : 10, Issue: 11	Online ISSN: 2249- 7137 DOI : 10. 595 8/2 249 - 713 7.20 20.0 132 3.3	
Basant Kumar Das	Dr. R. K. Mahapat ra	Electronic Information Resources: Boon for the Society in the pandemic	National	lisforum_orissa		Annual issue 2020		40-44
Saumen Das	Sunil Kumar Yadav and Dr. Manoj Kumar Verma	Research productivity of Mizoram University, Aizawl during 2002-2018: A bibliometric analysis	National	Journal of Indian Library Association	56		ISSN (P) 2277- 5145 ISSN (Online) 2456- 513X	1-10
Dr. Manoj Kumar Verma	Saumen Das	Authorship and collaboration pattern of research output published by researchers of Tripura University during 2010-2019: A scientometrics analysis.	Inter- national	Library Philosophy and Practice	4359	Winter 10- 2020	1522- 0222	1-13
Saumen Das	Dr. Kiran Kaur and Dr. Manoj Kumar verma	Publication and Collaboration Pattern of College and Research Libraries Journal during 2009-2018: A Scientometric Analysis	Inter- national	Library Philosophy and Practice	5118	Winter 2-2021	1522- 0222	1-19
Saumen Das	Augustin e Zimik and Dr. Manoj Kumar Verma	Publication Pattern of Scientometric Literature Published in India during 2001-2020: A Scientometric Analysis	National	Saraswat the Tripura University Research Journal	1	2021		33-47
Saumen Das	Dr. Manoj Kumar Verma	Digital library research in BRICS countries during 2000-2019: Scientometric analysis	National	Annals of Library and Information Studies	68	2021	0972- 5423	127- 134
Saumen Das	Dr. Manoj Kumar Verma	Authorship and collaboration pattern of Annals of Library and Information Studies journal during 2009-2018: Scientometrics Mapping.	Inter- national	Library Philosophy and Practice	5605	Summe r 4- 2021	1522- 0222	1-17

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/Research	Number of Conf	erence/ Semina	ar/ Workshop attended
IName	Scholar	International	National	Institution Level
Dr. R. K. Mahapatra	Teacher	02	04	University
Dr. Mithu Anjali Gayan	Teacher	01		University
Mr. Augustine Zimik	Teacher	01	2	University
Shyamshree Pal	Research Scholar	02	-	University
Amitab Kumar Manglam	Research Scholar	01	18	University
JayantiChakraborty	Research Scholar	01	26	College/University
Rajesh Mog	Research Scholar	-	01	College
PrasanjitDhar	Research Scholar	-	02	University/AICTE

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Dr. R. K. Mahapatra	Kolkata, WB	4-7-2020	Central Reference Library, Kolkata	Social distancing and rural library services in the state of Tripura in lockdown period
Dr. R. K. Mahapatra	Badnera, Maharashtra	9-7-2020	Inter-disciplinary National e-conference on Dr. Ambedkar Literature in post Covid India	Usage of e-Resources in higher education & research
Dr. R. K. Mahapatra	Silchar, Assam	9-08-2020	One week Dr. S. R. Ranganathan online Lecture Series Assam University	Citation. Reference and Bibliography
Dr. R. K. Mahapatra	Meghalaya	12-08- 2020	DLIS &Maulana Azad Central Library, USTM	National Librarian's day
Dr. R. K. Mahapatra	Wadwani, Maharashtra	16-8-2020	One day National webinar, DLIS, LokamanyanTilakMahavidyalaya, Wadwani	Open Educational Resources
Dr. R. K. Mahapatra	Amravati, Maharashtra	9-9-2020	UGC-RC-SGB Amravati University & HRD Centre	Managing Citation. Reference and Bibliography
Dr. R. K. Mahapatra	Champadang a, Hoogly, WB	20-9-2020	International webinar RabindraMahavidyalaya, WB	Problems of Teaching: How to bridge the gap
Dr. R. K. Mahapatra	Kanyakumari, Tamilnadu	6-10-2020	International Faculty Development Programme Cape Comorin Trust, Tamilnadu	Reference Management and Citation
Dr. R. K. Mahapatra	Gauhati, Assam	31-12- 2020	UGC-ASC RC Gauhati University, Assam	Citation. Reference and Bibliography
Dr. R. K. Mahapatra	Mysore, Karnataka	11-12- 2020	UGC-HRDC RC, University of Mysore, Karnataka	Managing Citation. Reference and Bibliography
Dr. R. K. Mahapatra	Gauhati, Assam	18-12- 2020	FDP-NIRDPR, Gauhati	Managing Citation. Reference and Bibliography



Dr. R. K. Mahapatra	Bankura, WB	13-6-2021	PanchamuraMahavidyalaya	Access to Library Learning Resources
Dr. R. K. Mahapatra	Gauhati, Assam	25-6-2021	FDP-NIRDPR, Gauhati	Report Writing and Reference and Bibliography

# 5. Ph.D. Scholars registered (started course work)/ Theses submitted/ Awarded (issued provisional certificate) during the academic year 2020-21:

Name of Scholars	Par time/ Full time	Research topic	Name of Guide	Registered/ Theses submitted/ Awarded
Bijayananda Pradhan	Part time	Research Activities in Odisha: An Analysis Based on Published Literature as Reflected in SCOPUS	Dr. R. K. Mahapatra	Awarded
Pratibha Sharma	Part time	Intellectual Contributions and Structure of Physics Research: a bibliometric study of Pramana Journal of Physics	Dr. R. K. Mahapatra	Awarded
Kshirod Das	Part time	Net Generation Social Software Opportunities: Accessing Impact on Knowledge Accumulation and Sharing Skills by LIS Students of Odisha	Dr. R. K. Mahapatra	Awarded
Rudra Narayan	Part time	Web Credibility and Evaluation of Library Websites of Central Universities in India: An Empirical Study	Dr. R. K. Mahapatra	Submitted
Sidhartha Sahoo	Part time	Return On Investment (ROIof Electronic Information Resources: An Evaluative Study on Selected Scientific & Research Institute's Libraries in Odisha	Dr. R. K. Mahapatra	Submitted
Augustine Zimik	Part time	Documentation on Indigenous Paddy Culture Practices of TangkhulNagas: A Study	Dr. R. K. Mahapatra	Registered

## 6. Outreach Footprint of the Department:

# 6.1. Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

		,	1	r		
SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/ Workshops/ Symposia Lecture/ Talk	International / National	No. of Participants
1	6-7/8/2020	2 days	Visualising the change in public library system: Issues and challenges after lockdown	Virtual International Seminar	International	110
2	12/8/2020	1 day	Librarian's Day	Online Talk YouTube Live Stream	National	200
3	27/8/2020	1 day	Self-Reliance through NaiTalim International symposium on Gandhian thought for rural literacy and Development	Online YouTube live stream	International	200
4	5/9/2020	1 day	Teacher's Day	Online	National	40

## 6.2 Membership in Professional / Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Dr. R. K. Mahapatra	LinkedIn	https://www.linkedin.com/in/dr-rabindra-kumar-mahapatra-
Dr. N. K. Ivialiapatra	LITIKCUITI	50083643/
Dr. R. K. Mahapatra	LIS Link	lislink.com
Dr. Mithu Anjali Gayan	LinkedIn	http://www'linkedin.com/in/mithu-anjali-2b39a776

## 6.3 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Dr. Mithu Anjali	Online training program on	Online (Aligarh Muslim	7 days	16.02.21-
Gayan	Academic Leadership	University)	7 uays	22.02.21
Dr. R. K.	Online training program on	Online (Aligarh Muslim	7 days	16.02.21 -
Mahapatra	Academic Leadership	University)	7 uays	22-02-21

- 7. Major thrust area of research: Information Seeking Behaviour, Documentation of Indigenous Knowledge, Information Literacy, Bibliometrics, Scientometrics, Informetrics
- 8. New initiatives/Innovations: Initiated UGC-LOCF Curriculum stipulated syllabus for B.Lib.I.Sc. course, Seminar Library, Wi-Fi Remote Access to Faculties & Research Scholars & Smart Class with Smart Board
- 9. Major Instruments available in the Department: 23ed DDC, Smart Board & Desktop Computers
- 10. Awards/Medals/Honours\* (State/National/International level) received by the Teachers during the academic year 2020-21:

Name of Teacher	Name of Awards/Medals /Honours	Date of Awards/ Medals/ Honours	Awarding Agency/Institution	Remarks
Dr. R. K. Mahapatra	Panel Speaker	4-July 2020	National Webinar National Reference Library, Kolkata	-
Dr. R. K. Mahapatra	Resource person	9 July 2020	National Interdisciplinary E-Conference, Shri GajananMaharajShikshanSanthaAmaravati'sNara yanraoMahavidyalaya	-
Dr. R. K. Mahapatra	Convener & Special Guest	6-August 2020	Virtual International Seminar, MBB University, Agartala	-
Dr. R. K. Mahapatra	Resource person	9 August 2020	One week Dr. S. R. Ranganathan online Lecture Series Assam University	-
Dr. R. K. Mahapatra	Speaker	12 August 2020	University of Science & Technology, Meghalaya	-
Dr. R. K. Mahapatra	Resource person	16 August 2020	Rashtriya Shikshan Prasarak Mandal Beed's Lokama nyan Tilak Mahavidyalaya, Wadwani	-
Dr. R. K. Mahapatra	Co-Convener	27 August 2020	International Symposium, MBB University	-
Dr. R. K. Mahapatra	Resource person	9 September 2020	UGC Refresher Course, HRDC National Resource Centre & SGB Amravati University, Amravati, Maharashtra	-
Dr. R. K. Mahapatra	Resource person	20 September 2020	International webinar RabindraMahavidyala, Champadanga, WB	-

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Dr. R. K. Mahapatra	Resource Person	11 December 2020	UGC-HRDC Refresher Course University of Mysore	-
Dr. R. K. Mahapatra	Resource Person	31 December 2020	Refresher Course UGC-ASC, Gauhati University, Assam	-
Dr. R. K. Mahapatra	Resource Person	18 December 2020	Faculty Development Programme NIRDPR, Gauhati	-
Dr. R. K. Mahapatra	Speaker	13-June 2021	National Webinar at PanchamuraMahavidyala, Bankura (WB)	-
Dr. R. K. Mahapatra	Resource person	25 June 2021	Faculty Development Programme NIRDPR, Gauhati	-
Dr. R. K. Mahapatra	Reviewer	2020-21	Global Knowledge Memory and Communication (Emerald Group) International Journal	-
Dr. R. K. Mahapatra	Reviewer	2020-21	DJLIT, National Journal	-
Dr. R. K. Mahapatra	External member	2020-2021	BPGS, DLIS, MBB University, Tripura	-
Dr. R. K. Mahapatra	Member	2020-21	BoS in LIS, Berhampur University &Khallikote University, Odisha	-
Dr. R. K. Mahapatra	Editorial-cum- peer Review member	2021	Managing University and Institutional Libraries in 21 <sup>st</sup> Century A festschriftvolume published in honour of Dr. Prem Kumar Jayaswal ISBN: 9788194818984	-

<sup>#</sup> In case of sports, inter university, zonal may also be considered.

# 11. Students qualified in various public examinations in the Academic year 2020-21 from the Department:

		Category			Name of the
		(GEN/	PH		Examination (NET/
Name	Sex	ST/SC/	(Yes	Name of the Organization/ Institution	SLET/ GATE/ CAT/
Ivaille	(M/F)	OBC/	SSC/ UPSC/ TPSC/		
		EWS/MI	/No)		Others/
		N)			SWT*/SWO**
Prasanjit Dhar	М	GEN	No	UGC	JRF
Richard Halam	М	ST	No	School Education Department, Govt. of	ICT instructor @ ICT
RICHAIU HAIAIII	IVI	31	INO	Tripura	School Project
Dipaya Bhaumik	М	GEN	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian
Dipankar Reang	М	ST	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian
Ruvina Debbarma	F	ST	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian
Kusumita Jamatia	F	ST	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian
Zaijeli Malsom	F	ST	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian
Swarajit Das	М	SC	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian
Zononlokhi Halam	F	ST	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian
Priya Datta	F	GEN	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian
Subrajit	М	GEN	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian
Sangita Debbarma	F	ST	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian
Rasma Debbarma	F	ST	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian
Sangita Kalai	F	ST	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian

Pantha Roy	F	GEN	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian
Namita Das	F	SC	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian
Priyatish Malakar	М	SC	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian
Nabamita Roy	F	OBC	No	Navodaya Vidyalaya Samiti, Shillong Region	Librarian
Kalyan Sukla	М	OBC	No	NavodayaVidyalayaSamiti, Shillong Region	Librarian

<sup>\*</sup>Students Opting for Higher Studies With Examination;\*\*Students Opting for Higher Studies Without Examination.

## 12. Details of Student's Placement known to the Department:

Name	Sex (M/F)	Category (GEN/ST/ SC/OBC/ EWS/ MIN)	PH (Yes /No)	Name of the Organization/ Institution	Designation	Exami- nation Body	Name of the Examina tion
Kusumita Jamatia	F	ST	No	SIPARD, Agartala	Library Intern	-	-
Richard Halam	М	ST	No	School Education Department, Govt. of Tripura	ICT Instructor	-	-
Binata Kalai	F	ST	No	ONGC, Agartala	PGT	-	-
Malina Reang	F	ST	No		Teacher	-	-
Ruvina Debbarma	F	ST	No	ICFAI, Agartala, Tripura	Guest Faculty	-	-
Dipayan Bhaumik	М	GEN	No	Holy Spirit School, Belonia	Librarian	-	-
Prasanjit Dhar	М	GEN	No	Bangalore University	Library Trainee	-	-
Zaijeli Malsom	F	ST	No	Donbosco School	Librarian	-	-
Rajesh Mog	М	ST	No	ICFAI, Tripura	Guest Faculty	-	-

## 13. Any other achievements:

Since starting of the department (2016-17) 20 students have been placed in different capacities as Librarian, Assistant Librarian, Library Trainee, in premier libraries in the state of Tripura as well as outside the state such as Sikkim, West Bengal, Bihar, Chennai, Delhi, Arunachal Pradeshand 2 students got Guest faculty (ICFAI University, Tripura). 6 students have successfully cleared the UGC-NET and two students UGC-JRF examination till 2020. Mr. Prasanjit Dhar and Mr. Rajesh Mog, successfully qualified the Ph.D. entrance examination and pursuing Ph.D.

## 4

#### DEPARTMENT OF MATERIAL SCIENCE AND ENGINEERING

Head of the Department : Dr P Karuna Purnapu Rupa

Year of Establishment : 2016

Programmes on offer : M.Tech. (Material Science and Engineering),

PhD (Material Science and Engineering)

Intake capacity : 17 (M.Tech.)

### Major achievements/ Vision of the Department:

The Department of Material Science and Engineering is one of the new teaching and research departments of Tripura University (A Central University), started its journey in 2016, included under the XII Five Years Plan, sanctioned by UGC. This department offers four-semester 'M. Tech' programme in 'Material Science and Engineering'. This unique stream in engineering helps students to gain technical knowledge of various kinds of materials like metals, semiconductors, ceramics, polymers and composites through material characterization and its structure – property relationships. Also, students gain in-depth knowledge on various kinds of materials for engineering applications in critical industrial sectors, energy and electronics. The emphasis is on imparting quality education to the students and research. The research areas of the department include: functional nanomaterials for energy harvesting and storage, spintronics nanomaterials, advanced ceramics, powder metallurgy, corrosion, industrial solid waste utilization and management and composites. The Dept. has received external projects from funding agencies such as SERB, IERP, GBPNISHED, UGC-DAE CSR. The students of the Dept, participated in national companions such as SIH. The students participated and reached finals of Smart India Hackathon-2019, hardware edition. This department has started PhD programme from 2017

### 1. Faculty Members:

						ching/ erience Bugan		l Thesis				
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/job experience	Awarded	Existing	Guided	Existing	Citation	H-index	
Dr Pantula Karuna Purnapu Rupa	PhD	Associate Professor	Full time	Advanced Composites, Hydrogen Storage Materials, Surface Engineering	13 years	0	02	05	02	222	09	
Dr. Prasanta Kumar Rout	Ph.D.	Assistant Professor	Full time	Powder processing of Ceramics, Powder Metallurgy, Corrosion Engineering, Solid Waste Management	11 years	0	03	05	03	196	06	
Dr. Gobinda Gopal Khan	PhD	Assistant Professor	Full time	Functional Nanomaterials, Nanomaterials for Energy, Nano- electronics and Spintronics	11 years	02	01	02	02	1861	24	

<sup>\*</sup>Must be mentioned



- 2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:
  - 2.1 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ Inter- national	Publishe rs	Year (202 0-21)	ISB N	Pag e No.
Sunanda Mishra	Prasant Kumar Rout Alok Prasad Das	Emerging Microfiber Pollution and Its Remediation	Ram Prasad	Environment al Pollution and Remediation	Inter- national	Springer, Singapore	2021	978 - 981 - 15- 549 8 -8	247 - 266
M Prashanth	R Karunanithi, S Rasool Mohideen, A Karthik, Prasanta Kumar Rout	Microstructu ral Evolution, Phase Formation and Mechanical Behaviour of Al 7017 Alloy Produced by Powder Metallurgy (P/M) Technique	Lionel Ganippa R. Karthikeya n V. Muralidhar an	Advances in Design and Thermal Systems	Inter- national	Springer, Singapore	2021	978 - 981 - 33- 642 7 -1	81- 93
Dipankar Das	Prasanta Kumar Rout	E-Waste management in India –A review	Dr. Navtika Singh Nautiyal and Suchita Agarwal	Future of E- Waste Management: Challenges and opportunities	Inter- national	Thomson Reuters	2021	978 - 939 052 9 858	107 - 118

## 2.2 Full papers published in Journals/ Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ Inter- national	Name of the Journal/ Proceedings / Magazine	Volu- me	Year (2020 -21)	ISSN/ ISBN/ DOI	Pag e No.
Dipankar Das	Priyambada Prakash, Prasanta K Rout, Sachin Bhaladhare	Synthesis and Characterization of Superabsorbent Cellulose-Based Hydrogel for Agriculture Application	Inter- national	Starch	73	2021	10.1002/s tar.20190 0284	190 028 4
Dipankar Das	Prasanta Kumar Rout	Synthesis, Characterization and Properties of Fly Ash Based Geopolymer Materials	Inter- national	Journal of Materials Engineering and Performance	30	2021	https://do i.org/10.1 007/s116 65-021- 05647-x	321 3- 323 1
Dipankar Das	Prasanta Kumar Rout	Synthesis and Characterization of Fly Ash and GBFS Based Geopolymer Material	Inter- national	Biointerface Research in Applied Chemistry	11	2021	https://do i.org/10.3 3263/BRI AC116.14 50614519	145 06- 145 19

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		Earth abundant						
	D Maity, K	transition metal ferrite	Inter- national					475
	Karmakar,	nanoparticles anchored		Nanotechno logy	31	2020	ISSN: 1361- 6528	
GG Khan	D Mandal,	ZnO nanorods as						_
	D Pal, K	efficient and stable						403
	Mandal	photoanodes for solar						
		water splitting						
	D Pal, A	Integration of						
	Sarkar, NG	LaCo(OH) <sub>x</sub> Photo-						
	Ghosh, DM	Electrocatalyst and		A CC A I			ISSN:	611
GG Khan	Sanke,	Plasmonic Gold	Inter-	ACS Appl.	4	2021		1-
GG Kilali	DMaity, K	Nanoparticles with Sb- Doped TiO <sub>2</sub> Nanorods	national	Nano	4	2021	2574- 0970	612 3
	Karmakar,	for		Mater.				
	D Sarkar, SS	Photoelectrochemical						
	Zede	Water Oxidation						

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	her/Student/ Number of Conference/ Seminar/ Workshop attended				
INdiffe	Research Scholar	International	National	Institution Level		
Dr. Prasanta Kumar Rout	Teacher	01	03	00		
Mr. Debashish Pal	Research Scholar	01	00	00		
Romit Roy	Student	02	04	00		
Dipankar Das	Research Scholar	01	12	00		
Gautam Sarkar	Student	02	01	00		
Abhijit Roy	Student	03	12	00		
Saikat Das	Research Scholar	00	01	00		

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Dr Pantula Karuna Purnapu	Hyderabad	02/03/2021	B.J.R. Govt. Degree	Hydrogen as
Rupa	(Delivered Online)	02/03/2021	College	Renewable Energy

- 5. Outreach Footprint of the Department:
  - 5.1 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Dr. Prasanta Kumar Rout	The Institution of Engineers (India)	MIE
Dr. Gobinda Gopal Khan	The Minerals, Metals & Materials	Honorary Membership (ID:
Dr. Gobiilda Gopai Kilali	Society (TMS), USA	494993)
Saikat Das	The Institution of Engineers (India)	AMIE
Dipankar Das	The Institution of Engineers (India)	AMIE



## 5.2 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date	
Dr. Pantula Karuna	DFC (Online)	Aligarh Muslim University	One Week	16-22 February, 2021	
Purnapu Rupa	DFC (Offilite)	Aligarii Musiiiii Oiliversity	One week	10-22 February, 2021	
Dr. Gobinda Gopal Khan	Refresher (Online)	Tripura University	Two Week	01-14 December, 2020	
Dr. Gobinda Gopal Khan	DFC (Online)	Aligarh Muslim University	One Week	16-22 February, 2021	
Dr. Prasanta Kumar Rout	DFC (Online)	Aligarh Muslim University	One Week	16-22 February, 2021	

## 6. Major thrust areas of research:

Functional nanomaterials for energy harvesting and storage Advanced ceramics and Composites Industrial solid waste utilization and management

## 7. New initiatives/Innovations:

## 8. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B) (Build up with Project Funding)
4	2	2

## 9. Major Instruments available in the Department:

- a) Optical Microscope
- b) Compressive Testing Machine
- c) Furnaces (700 C, 1100 C, 1300 C)
- d) Keithley source meter

## 10. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Dr. Gobinda Gopal Khan	-	UGC-DAE CSR, Kolkata Center	Defect engineering of nanomaterials using ion beam irradiation for eco- friendly energy harvesting	5.1	0.7	3 years
Dr. Prasanta Kumar Rout	-	IERP, GBPNISHED, Government of India	Production of Geopolymer based construction material by using fly ash: An Industrial waste.	14.84780	NIL	3 years
Dr. Prasanta Kumar Rout	Dr. Alok Prasad Das	DST-SYST, Government of India	Bioreactor based enhanced biorecovery of manganese from mining	32.51148	NIL	3 years

## 4

## 11. Awards/Medals/Honours\*(State/National/International level) received by the Teachers during the academic year 2020-21:

Name of Teacher	Name of Awards/ Medals/ Honours	Date of Awards/ Medals/ Honours	Awarding Agency/ Institution	Remarks
Dr. Prasanta Kumar Rout	Best paper awards	09-04-2021	International Conference on Sustainable Materials and its Green Technologies for industry 4.0 (SMiGT4.0) held at Adithya Institute of Technology, Coimbatore, India (April 7-8, 2021)	International Conference

<sup>#</sup> In case of sports, inter university, zonal may also be considered.

## 12. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

Name of Teacher	Name of other Universities	Collaboration on Project	Year	
Name of Teacher	/ Institutes / Industry	Collaboration on Project	(2020-21)	
Dr. Gobinda Gopal Khan	IASST, Guwahati	Plasma treated nanomaterials for energy	2020-21	
Dr. Gobinda Gopal Khan	SNBNCBS, Kolkata	Novel nanomaterials for nanoelectronics	2020-21	
Dr. Gobinda Gopai Kilali	SINDINCES, KUIKALA	and energy		
Dr. Gobinda Gopal Khan	UGC DAE CSR, Kolkata	Ion beam radiation induced defect tuning in	2020-21	
Dr. Gobinda Gopai Knan	Center	nanomaterials	2020-21	

<sup>\*</sup>Students Opting for Higher Studies WithExamination; \*\*Students Opting for Higher Studies Without Examination.

## 13. Awards/Medals/Honours<sup>#</sup> (State/National/International level) received by the students during the academic year 2020-21:

Name of Students	Name of	Date of			
	Awards/Medals/	Awards/Medals/	Awarding Agency/Institution	Remarks	
	Honours	Honours			
Romit Roy			International Conference on Sustainable		
	Best paper awards	09-04-2021	Materials and its Green Technologies for		
			industry 4.0 (SMiGT4.0) held at Adithya	International Conference	
	awaius		Institute of Technology, Coimbatore, India		
			(April 7-8, 2021)		

<sup>#</sup> In case of sports, inter university, zonal may also be considered.



Head of the Department : Dr. Sharmistha Bhattacharya (Halder)

Year of Establishment : 1976

Programmes on offer : M.Sc in Mathematics, Ph.D., Integrated Master Degree (IMD)

Intake capacity : 50(Fifty) + 5(EWS) inM.Sc., 10(Ten) + 1(EWS) in IMD

### Major achievements:

Professor B.C. Tripathy is the founding fellow of the North-Eastern Academy of Sciences, India. He is listed among the world's top 2% scientists by Stanford University, USA and he has H-index 37 according to SCOPUS database and 47 according to Google. The faculties and students of the Department are actively engaged to popularize Mathematics through the Tripura Mathematical Society, by organizing different programmes.

#### Vision:

• To be a premier learning and research center for Mathematics in the country.

- To motivate the students for appearing different national level tests conducted by different boards/ commissions/ institutions and to increase the number of NET/SLET qualified students from the department.
- To prepare a syllabus of high standard time to time on thrust and emerging areas in Mathematics for attracting bright students to pursue courses offered by the department.
- To built the infrastructure conducive for high standard research on thrust areas of research in mathematics and its applications by bringing many individual as well as departmental projects such as SAP, FIST etc.

### 1. Faculty Members:

					ching/ rience	Ph.D Guidance		Master Thesis Guidance			
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Teaching/ Research/job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Prof. B.C. Tripathy	Ph.D.	Professor	Full Time	Functional Analysis, Topology, Fuzzy set, Multi set, Uncertain theory, Neutrosophi set	Teaching : 33	3	08	37	08	5536 (google) 2894 (scopus)	47 (google) 37 (scopus)
Dr. Sharmistha Bhattacharya Halder	PhD	Associate Professor	Full Time	Rough set, Data Mining	Teaching : 19	9	02	8 per year	08	102	5
Dr. Subrata Bhowmik	Ph.D.	Asst. Professor	Full time	Set Theory, Logic, Topology	Teaching : 15	01	00	24	8	32	3

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Dr. Shyamal	Ph.D	Assistant	Full	Sequence	Teaching	0	2	24	8	396	11
Debnath	PII.D	Professor	time	Spaces	: 18	U		24	٥	390	11
Dr. Shouvik	PhD	Assistant	Full	Fuzzy logic, fuzzy	Teaching			24	8		
Bhattacharya	PIID	Professor	time	queuing control	: 13	_	-	24	٥	-	-
Dr Harish D	Ph D.	Assistant	Full	Differential	Teaching			15	8		
Di Halisii D	FIID.	Professor	time	Geometry	: 5	_	-	15	8	_	_

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

## 2.1 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ Inter- national	Publishers	Year (2020 -21)	ISBN	Page No.
Prof. B.C. Tripathy	l _	Types of Topological Spaces Based on Notions of Sets	Runu Dhar and Debadatt a Adak	New Thoughts on Ancient and Modern Mathematics	National	Eastern Book House, Guwahati	2021	97881819 4747543 (Print) 97881819 4747550 (eBook)	19- 27
Prof. B.C. Tripathy	_	Fuzzy Minimal Structure Space	Prof. R.N. Bhaumik	Proceedings of International e-Conference on Rough Sets, Fuzzy Sets and Their Applications	National	Fuzzy and Rough Sets Association (FRSA) Tripura, India	2021	-	37 - 44
Prof. B.C. Tripathy	_	The Nobel Concept of Fuzzy Set – The Brain Child of Late Professor L.A. Zadeh	Prof. R.N. Bhaumik	Proceedings of Birth Centenary Year of Prof. L. A. Zadeh - News Bulletin, No.4	National	Fuzzy and Rough Sets Association (FRSA) Tripura, India	2021	-	56- 60

## 2.2 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ International	Name of the Journal/ Proceedings/ Magazine	Volu me	Year (2020 -21)	ISSN/ ISBN/ DOI	Page No.
B.C. Tripathy	P. Debnath	On separation axioms in soft bitopological spaces	International (SCOPUS indexed)	Songklanakari n Journal of Science and Technology	42(4)	2020	0125- 3395 (Print)	830- 835

port 2020-2021	

B.C. Tripathy	S. Das, R. Das	Multi-criteria group decision making model using single-valued neutrosophic set	International (SCOPUS indexed)	LogForum	16 (3)	2020	1895- 2038 (Print)	421- 429
B.C. Tripathy	K. Shravan	Multi set ideal topological spaces and Kuratowskiclosure operator	International (SCOPUSinde xed)	Bull. Univ. Transilvania Brasov,Series III: Mathematics, Informatics, Physics	13 (62), No. 1	2020	2065- 2151 (Print)	273- 284
B.C. Tripathy	S. Roy, S. Saha	Some Results on <i>p</i> -distance and sequence of complex uncertain variables	International (SCOPUSinde xed)	Commun. Korean Math. Soc.	35(3)	2020	1225- 1763 (Print)	907- 916
B.C. Tripathy	D. Datta	Convergence of complex uncertain double sequences	International (SCOPUSinde xed)	New Mathematics and Natural Computation	16(3)	2020	ISSN: (print): 1793- 0057   (online): 1793- 7027	447- 459
B.C. Tripathy	D. Datta	Double sequences of complex uncertain variables defined by Orlicz function	International (SCOPUSinde xed)	New Mathematics and Natural Computation	16(3)	2020	ISSN: (print): 1793- 0057   (online): 1793- 7027	541- 550
B.C. Tripathy	S. Saha, S. Roy	On almost convergent of complex uncertain sequences	International (SCOPUSinde xed)	New Mathematics and Natural Computation	16(3)	2020	ISSN: (print): 1793- 0057   (online): 1793- 7027	573- 580
B.C. Tripathy	B. Das, P. Debnath and B. Bhatta- charya	Characterization of statistical convergence of complex uncertain double sequence	International (SCI and SCOPUSinde xed)	Analysis and Mathematical Physics	10(4)	2020	1664- 2368 (Print)	71, 14 page s
B.C. Tripathy	S. Das	Pairwise neutrosophic- b-open set in neutrosophicbitopolog icalspaces	International (SCOPUSinde xed)	Neutrosophic Sets and Systems	38	2020	2331- 6055 (Print)	135- 144
B.C. Tripathy	P.J. Dowari	Lacunary difference sequences of complex uncertain variables	International (SCOPUSinde xed)	Methods of Functional Analysis and Topology	26(4)	2020	1029- 3531 (Print)	327- 340
B.C. Tripathy	R. Das	Neutrosophicmultiset topological space	International (SCOPUSinde xed)	Neutrosophic Sets and Systems	35	2020	2331- 6055 (Print)	142- 152

B.C. Tripathy	B. Das, P. Debnath and B. Bhatta- charya	Study of matrix transformation of uniformly almost surely convergent complex uncertain sequences	International (SCIE and SCOPUSinde xed)	FILOMAT	34 (14)	2020	0354- 5180 (Print)- 2406- 0933 (Online)	4907 - 4922
B.C. Tripathy	K. Shravan	Metrizability of multiset topological spaces	International (SCOPUSinde xed)	Bull. Univ. Transilvania Brasov,Series III: Mathematics, Informatics, Physics	13 (62), No. 2	2020	2065- 2151 (Print)	683- 696
S. Debnath	C. Choudhu ry	On I-statistically φ- convergence	International	Proyecciones	40(3)	2021	07176 279	593- 604
S. Debnath	A. Debnath	Statistical convergence of multisequences on $\mathbb R$	International	Applied Sciences	23	2021	14545 101	17- 26
S. Debnath	B.C.Tripa thy, D. Rakshit	On I-statistically limit points and I-statistically cluster points of sequences of fuzzy number	International	Mathematica	63 (86) (1)	2021	1222- 9016	140- 147

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conf	ference/ Seminar/ Wo	rkshop attended
Ivaille	Research Scholar	International	National	Institution Level
B.C. Tripathy	Teacher	05	02	-
Debasish Datta	Research Scholar	02	02	-
Rakhal Das	Research Scholar	04	04	-
Suman Das	Research Scholar	03	03	-
K. Renubebata Devi	Research Scholar	03	02	-
Dr Harish D.	Teacher	-	-	1
Shouvik Bhattacharya	Teacher	02	07	-
Arup Datta	Student	-	07	-

4. Ph.D. Scholars Registered (started course work) / Theses submitted / Awarded (issued provisional certificate) during the academic year 2020-21:

Name of	Dar time/			Registered/	
Scholars	Par time/ Full time	Research topic	Name of Guide	Theses submitted/	
Scholars	ruii tiirie			Awarded	
Suman Das	Full Time	Studies on Neutrosophic Bitopological	D.C. Tripathy	Registered	
Sulliali Das		Spaces and Ideal	B.C. Tripathy	Registered	
Chiranjib	Full Time	Studies on I^K-convergence and its	Dr. Shyamal	Registered	
Choudhury		applications	Debnath	negistered	

		Studies on Some Generalized	Dr. Chyamal	
Bijoy Das	Full time	Convergence Concepts	Dr. Shyamal Debnath	Registered
		of Complex Uncertain Variable <b>s</b>	Debliatii	

## 5. Outreach Footprint of the Department:

# 5.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/ Workshops/ Symposia Lecture/ Talk	International / National	No. of Participants
1	April 8-9, 2021	2 days	International Webinar on Mathematical Analysis and its Applications	Conference	International	75

#### 5.2 Membership in Professional / Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
	1. American Mathematical Society	Annual
	2. Indian Mathematical Society	Life
	3. Bharat GanitParisad, Lucknow	Life
B.C. Tripathy	4. Indian Academy of Mathematics	Life
B.C. Hipathy	5. Tripura Mathematical Society	Life
	6. Banaras Hindu University Mathematical Society	Life
	7. Assam Academy of Mathematics	Life
	8. Marathawada Mathematical Society	Life
Sharmistha Bhattacharya	1. Tripura Mathematical Society	Life(Vice President)
Halder	2. Fuzzy Rough set Association	Life(Treasurer)
	3. Add life (Caring and Empowering Women)	Life(President)
Subrata Bhowmik	1.Tripura Mathematical Society	Life
ShyamalDebnath	American Mathematical Society	Annual
	2. Indian Mathematical Society	Life
	3. Calcutta Mathematical Society	Life
	4. Indian Academy of Mathematics	Life
	5. Tripura Mathematical Society	Life
Shouvik Bhattacharya	1.Tripura Mathematical Society	Life
Harish D.	1.Tripura Mathematical Society	Life

#### 5.3 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Harish D	Orientation Programme(online)	Teaching Learning Center, Ramanujan College, University of Delhi	4 weeks	10/11/20 to 09/12/20
Harish D	Faculty Development Programme(online)	Teaching Learning Center, Ramanujan College, University of Delhi	2 weeks	15/09/20 to 29/09/20
Harish D	Faculty Development Programme(online)	Sri Sri University, Cuttack	2 weeks	05/11/20 to 19/11/20
Harish D	Faculty Development Programme(online)	Janaki Devi Memorial College, University of Delhi	1 week	07/09/20 to 13/09/20

Shouvik Bhattacharya	FACULTY DEVELOPMENT PROGRAM(Online) on Developing Multimedia enriched Powerful Presentations	Guru Angad Dev Teaching Learning Centre SGTB Khalsa College, University of Delhi	1 week	11-16 August 2020
Shouvik Bhattacharya	Faculty Development Program(Online) on "Applied Mathematics and Related Fields (AMRF-2020) "	Department of Mathematics, GLA University, Mathura	1 week(6 days)	24 to 29 August 2020
Shouvik Bhattacharya	Online Faculty Development Program on 'Examination Reforms'	National Institute of Technology Mizoram	1 week (5 days)	15th February to 19th February 2021.
Shouvik Bhattacharya	FDP(Online) on "Topological Data Analysis"	Post Graduate Department of Mathematics, Al-Ameen College, Edathala	3 days	03-05 September 2020
Shouvik Bhattacharya	Online Faculty Development Program (FDP) on "Magical Mathematics of Ramanujan"	Department of Mechanical Engineering, National Institute of Technology Silchar	1 day	16 July, 2020

#### 6. Major thrust area of research:

Topology, Fuzzy set, Fuzzy Topology, Rough set theory, Soft set Theory, Sequence spaces, Summability theory, Uncertain theory, Multi set theory, Image processing, data mining, decision making, Topological Algebra, Algebra, Logic, Set Theory, Differential Geometry, Neutrosophic set theory, Geographical Information Systems, fuzzy queuing control.

#### 7. New initiatives/Innovations:

Teachers are taking online classes through various online platforms, recording their lectures and providing them to the students for self-study purpose.

#### 8. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (ALD)	No of Tooching Lab (A)	No. of Research Lab (B)		
Total No. of Lab (A+B)	No. of Teaching Lab (A)	(Build up with Project Funding)		
2	1	1		

# 9. Awards/Medals/Honours<sup>#</sup> (State/National/International level) received by the Teachers during the academic year 2020-21:

Name of	Name of	Date of	Awarding	Domarks
Teacher	Awards/Medals/Honours	Awards/Medals/Honours	Agency/Institution	Remarks
Prof. B.C. Tripathy	Listed among the world's top 2% scientists	November 2020	Stanford University, USA	By quality of publications and citations

<sup>#</sup> In case of sports, inter university, zonal may also be considered.

### 10. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

Name of Teacher	Name of other Universities / Institutes / Industry	Collaboration on Project	Year (2020-21)
B.C. Tripathy	NIT Silchar	Sequences of complex uncertain variables	2019-2020
B.C. Tripathy	NIT Agartala	Sequences of complex uncertain variables	2019-2020

# 11. Students qualified in various public examinations in the Academic year 2020-21 from the Department:

Name	Sex (M/F)	Category (GEN/ ST/ SC/ OBC/ EWS/ MIN)	PH (Yes /No)	Name of the Organization /Institution	Name of the Examination (NET/SLET/GATE/CAT/SSC/ UPSC/TPSC/Others/SWT*/SWO**
Vivekananda Majumder	М	UR	no	SSC	SSC GD
Diksha Debbarma	F	ST	no	CSIR	NET
Vivekananda Chakraborty	М	UR	no	TRBT	TET-II
Amarchan Sarkar	М	SC	no	TRBT	TET-II
Suman Das	М	SC	no	TRBT	TET-II

<sup>\*</sup>Students Opting for Higher Studies With Examination; \*\*Students Opting for Higher Studies Without Examination.

## 12. Details of Student's Placement known to the Department:

Name	Sex (M/ F)	Category (GEN/ ST/SC/ OBC/ EWS/ MIN)	PH (Yes /No)	Name of the Organization/ Institution	Designation	Examination Body	Name of the Examination
Vivekananda Majumder	М	UR	No			SSC	SSC GD
Vivekananda Chakraborty	М	UR	No	Department of School Education, Govt. of Tripura	GT	TRBT	TET-II
Amarchan Sarkar	М	SC	No	Department of School Education, Govt. of Tripura	GT	TRBT	TET-II
Suman Das	М	SC	No	Department of School Education, Govt. of Tripura	GT	TRBT	TET-II

# DEPARTMENT OF MICROBIOLOGY

Head of the Department : DR BIPIN KUMAR SHARMA

Year of Establishment : September 2011

Programmes on offer : M.Sc. and Ph.D Microbiology

Intake capacity : 27 students in M.Sc.

#### Major achievements/ Vision of the Department:

Department of Microbiology, University of Tripura, Suryamaninagar, established in September 2011, offers courses in Microbiology leading to M.Sc. and Ph. D. Department is equipped with necessary infrastructural facilities to undertake research in frontier areas of microbiological biotechnology. Audio-visual classrooms and advanced research laboratories with modern instruments are available for the students and scholars. Department has a fully functional computer laboratory with internet access for students. The department also invites experts from various esteemed Institutes, Universities and Industries regularly for providing adequate exposure to its students. The students are encouraged to undergo training in other universities and industry and necessary communications are initiated by the faculty of the department. The department also organizes training and workshops to train the students, scholars as well as faculty on different aspects of basic as well as advanced science.

The thrust area of research includes microbial biodiversity screening; microbial identification (genomic and transcriptomic level); phytochemicals as antimicrobial; anti-biofilm and anti-carcinogenic activity; biofilm-based bio-remedial system for effluent treatment; microbially treated fibers and products.

#### 1. Faculty Members:

			Guest/	o	of search/ ce		n.D lance	Mas The Guida	sis		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Gue Contract*	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Bipin Kumar Sharma	Ph. D.	Assistant Professor	Full time	Microbial Ecology	16years	One	Four	48	05	913	11
Dr. Shaon Ray Chaudhuri	Ph D	Associate Professor	Full time	Microbial Technology	>16	11	2	Abo ve 59	7	642	14
Dr. Ashutosh Kumar	Ph. D.	Assistant Professor	Full time	Microbial Molecular Biology	07 years, 06 months and 15 days	Awa rde d	1	10	5	600 (total)	11
Ashwini Chauhan	Ph. D	Assistant Professor	Full time	Infectious Biofilms, Biofilm Pathogenesis and Anti- Biofilm strategies	Teaching=5yr s/Research =8Y 8M/Industry= 1Y 6M. Total = 15Y2M		3	11	5	1654	16

<sup>\*</sup>Must be mentioned



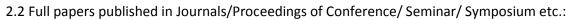
- 2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:
  - 2.1 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ Inter- national	Publish ers	Year (2020 -21)	ISBN	Page No.
Dr. Nandita Nath	Dr. Bipin Kumar Sharma	JU, A Traditional Alcoholic beverage of Halam Tribe of Tripura	Dr.Arif Uddin	Emerging Trends in scientific Research	National	AkiNik Publicat ions New Delhi	2021		159- 172
Priya Sarkar, Shaon Ray Chaudhuri	Tethi Biswas, Chaitali Chanda, Amrita Saha, Mathumal Sudarshan, Chanchal Majumder	Spent coffee waste conversion to value added products for pharmaceuti cal industry	Thatoi, Das and Maha- patra	Bioresource Utilization and Management Applications in Therapeutics, Biofuels, Agriculture, and Environmental Science	Inter- national	Apple Acade mic Press (AAP), I nc., Canada, a Taylor & Francis group	2021	9781 7718 8933 9	471- 488
Shaon Ray Chaudhuri	Basant Kumar Agarwala, Sunil K Sett, Priyasankar Chaudhuri, Piyali Paul, Gourav Bhattacharjee, Sumona Deb, Sukanya Chowdhury, Purnasree Devi, Sinchini Barman, Mandakini Gogoi, Tethi Biswas, Purabi Baidya, Abhispa Bora, Amrita Chakraborty, Chaitali Chanda, Saurav Saha, Ajoy Modak, Gautam Das, Priya Sarkar, Ronald Jamatia, Amitava Mukherjee, Ashutosh Kumar, Ashoke Ranjan Thakur, Mathumal Sudarshan, Rajib Nath, Leena Mishra, Indranil Mukherjee, Gautam Bose, Amarpreet Singh, Ranjan Kumar	Self- sustained ramie cultivation: an alternative livelihood option.	Thatoi, Das and Mahapat ra	Bioresource Utilization and Management Applications in Therapeutics, Biofuels, Agriculture, and Environmental Science	Inter- national	Apple Acade mic Press (AAP), I nc., Canada, a Taylor &Franci s group	2021	9781 7718 8933 9	365- 382

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Shabana Bano, Shaon Ray Chaudhuri	Anirban Mukherjee, Manjila Gupta, Sourav Ghosh, Arindam Roy, Madhusmita Mishra, Debkishore Gupta, Sujoy Panchadhyayee,	White blood cell diameter as a biomarker for rapid diagnosis of septicemia and antibiotic sensitivity screening.	Anupam Guha	Biological Sciences: Impacts on Modern Civilization, Current and Future Challenges	National	New Delhi Publish ers, New Delhi	2020	978- 81- 9474 17-9- 4	37- 57
Mamta, Sanjeev Kumar Prajapati.	Neelesh Nandan, Shashi Bhushan, Shaon Ray Chaudhuri, Halis Simsek,	Algae - and bacteria - driven technologies for pharmaceuti cals remediation in wastewater.	Maulin P. Shah	Removal of Toxic Pollutants through Microbiological and Tertiary Treatment	Inter- national	Elsevier	2020	9780 1282 1014 7	373- 408
Sharmistha Tapadar	Deeksha Tripathi, Saurabh Pandey, Khyati Goswami, Arunima Bhattacharjee, Kunwali Das, Espita Palwan, Mamta Rani, and Ashutosh Kumar	Role of Extremophil es and Extremophili c Proteins in Industrial Waste Treatment	Maulin P. Shah	Removal of Emerging Contaminants through Microbial Processes	Inter- national	Springe r Nature	2020- 21	9789 8115 5900 6	217- 235
Pranami Bharadwaj	Deeksha Tripathi, Saurabh Pandey, Sharmistha Tapadar, Arunima Bhattacharjee, Dimpal Das, Espita Palwan, Mamta Rani and Ashutosh Kumar	Molecular biology techniques for the detection of contaminant s in wastewater	Maulin Shah, Angana Sarkar and Sukhend u Mandal	Wastewater Treatment: Cutting Edge Molecular Tools, Techniques and Applied Aspect	Inter- national	Elsevier	2020- 21	9780 1282 1881 5	217- 235
Brij Pal Singh	Sougata Ghosh, Ashwini Chauhan	Control of bacterial biofilms for mitigating antimicrobia I resistance	Harsh Pa nwar, Chetan S harma, Eric Licht fouse	Sustainable Agriculture Reviews 46	Inter- national	Springer	2020	978- 3- 030- 5302 4-2	147- 176





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Main Author	Co- Authors	Title	Local/ National/ Inter- national	Name of the Journal/ Proceedings/ Magazine	Volu me	Year (2020 -21)	ISSN/ ISBN/ DOI	Page No.
Dr. Nandita Nath	Dr. Bipin Kumar Sharma	Traditional Medicines used in Respiratory Tract Infection by Some Ethnic Tribes of Tripura-Survey	National	Journal of Natural & Ayurvedic Medicine	4	2020	ISSN:2578- 4986	62- 68
Chaitali Chanda, Shaon Ray Chaudhuri	Mandakini Gogoi, Indranil Mukherjee,	Minimal medium optimization for soluble sulfate removal by tailor-made sulfate reducing bacterial consortium.	Inter- national	Bioremediati on Journal	24	2020	https://doi. org/10.108 0/1088986 8.2020.181 1633	251- 264
Shaon Ray Chaudhuri	Mandakini Gogoi, Tethi Biswas, Soumya Chatterjee, Chaitali Chanda, Ronald Jamatia, Ajoy Modak, Sunil K Sett, Indranil Mukherjee	Optimization of bio-chemical degumming of Ramie fiber for improved strength & luster.	Inter- national	Biotechnolog y Reports	28	2020	https://doi. org/10.101 6/j.btre.20 20.e00532	e005 32
Mandakini Gogoi Shaon Ray Chaudhuri	Tethi Biswas, Prasandeep Biswal, Tuhin Saha, Ajoy Modak, Lalit Mohan Gantayet, Rajib Nath, Indranil Mukherjee, Ashoke Ranjan Thakur, Mathumal Sudarshan,	A novel strategy for microbial conversion of dairy wastewater into biofertilizer.	Inter- national	Journal of Cleaner Production.	293	2021	https://doi. org/10.101 6/j.jclepro. 2021.1260 51	1260 51



Tethi Biswas, Shaon Ray Chaudhuri	Shashi Bhushan, Sanjeev Kumar Prajapati,	An eco-friendly strategy for dairy wastewater remediation with high lipid microalgae-bacterial biomass production	Inter- national	Journal of Environment al Management	286	2021	https://doi. org/10.101 6/j.jenvma n.2021.112 196.	1121 96
Mandakini Gogoi, Shaon Ray Chaudhuri	Pinaki Bhattachary a, Sudip Kumar Sen, Indranil Mukherjee, Shashi Bhushan,	Aquaculture effluent treatment with ammonia remover Bacillus albus (ASSF01).	Inter- national	Journal of Environment al Chemical Engineering	9	2021	https://doi. org/10.101 6/j.jece.20 21.105697	1056 97
Brij Pal Singh	Sougata Ghosh, Ashwini Chauhan	Development, dynamics and control of antimicrobial- resistant bacterial biofilms: a review	Inter- national	Environment al Chemistry Letters	19	2021	https://doi. org/10.100 7/s10311- 020-01169- 5	1983 - 1993

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conference/ Seminar/ Workshop attended				
Name	Research Scholar	International	National	Institution Level		
Tethi Biswas	Research Scholar	1	0	1		
Mandakini Gogoi	Research Scholar	1	3	0		
Dr. Ashwini Chauhan	Teacher	2	1	-		
Akshit Malhotra	Project Scholar	2	-	-		
Ankurita Bhowmik	Research Scholar	2	3	-		

4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Dr Shaon Ray Chaudhuri	Online	17 <sup>th</sup> July 2020	Departments of Microbiology of Raidighi College and Sammilani College, West Bengal.	Microbial Technology for clean and green environment with nutritious food for masses.
Dr Shaon Ray Chaudhuri	Online	30 <sup>th</sup> July 2020	Government College of Engineering Kalahandi, Bhawanipatna, Odisha	Challenges and Opportunities in Startup



			T	
Dr Shaon Ray Chaudhuri	Online	3 <sup>rd</sup> August, 2020.	National Institute of Technology Agartala	Making women economically independent through scientific invention: an approach to curb atrocities against women
Dr Shaon Ray Chaudhuri	MBB University, Agartala	26 <sup>th</sup> August, 2020.	MBB University, Agartala	Usage of SWAYAM/MOOCS Portal and Process of Credit Transfer
Dr Shaon Ray Chaudhuri	Online	27 <sup>th</sup> September 2020.	Rabindranath Thakur College	White blood cell diameter as a biomarker for rapid diagnosis of septicemia and antibiotic sensitivity screening
Dr Shaon Ray Chaudhuri	Online	1 <sup>st</sup> October 2020	DBT-BIRAC	Microbial system for conversion of dairy waste water into biofertilizer.
Dr Shaon Ray Chaudhuri	Online	8 <sup>th</sup> October 2020	Department of Biotechnology, Government of India	Developing Microbial Biofilm Reactor for Conversion of Dairy Waste Water into Biofertilizer
Dr Shaon Ray Chaudhuri	Online	19 <sup>th</sup> October 2020	КІІТ ТВІ	Microbial consortium based biofertilizer for increased Ramie Fiber yield.
Dr Shaon Ray Chaudhuri	Online	5 <sup>th</sup> November 2020	MAKAUT WB	Assembling the BIG project reports from grant writing, executive summary to annexure and appendices.
Dr Shaon Ray Chaudhuri	Online	5 <sup>th</sup> February 2021	61st Annual International Conference of The Association of Microbiologists of India and Indian Network for Soil Contamination Research (INSCR)	Microbial Technology for Clean Environment
Dr Shaon Ray Chaudhuri	Online	27 <sup>th</sup> February 2021	90th Annual Session of NASI and Symposium on Towards a New Healthcare Regime for the Nation	Tailor made microbial consortium for customized wastewater treatment
Dr Shaon Ray Chaudhuri	Online	5 <sup>th</sup> June 2021	Rabindranath Thakur Mahavidyalaya, Tripura	Science and Environment
Dr. Ashwini Chauhan	Virtual conference (UK-India)	12/09/2020	NBIC, UK and IBS India	Central Venous Catheter associated biofilm infections: Eradication Strategies
Dr. Ashwini Chauhan	Virtual conference (India Biofilm Society)	27/02/2021	India Biofilm Society	Challenges and solutions for biofilm Research in India
Dr. Ashwini Chauhan	CSIR-SRTP (Mentoring for Virtual Summer Internship)	June- August 2020	CSIR-NEIST	Biofilms and related challenges (Project Mentored to 12 students)
Dr. Ashutosh Kumar	CSIR-SRTP (Mentoring for Virtual Summer Internship)	June- August 2020	CSIR-NEIST	Mentored 37 students

# 4

#### 5. Patents Applied for/ Granted:

Name	Title of Patent	Applied/ Granted	Patent No.	Date (Applied/ Granted) (DD/MM/YY)	Licensed or not
Dr Shaon Ray	Methods for treating sulphate	Granted	341914	17 <sup>th</sup> July	Not Yet
Chaudhuri	containing water.	Indian		2020	
Dr Shaon Ray	Microbial combination for	Granted		28 <sup>th</sup>	
Chaudhuri	environmental protection and	Indian	347939	September	Not Yet
	agricultural sustenance.			2020	
Dr Shaon Ray	Microbial Consortium for nitrate	Granted		13 <sup>th</sup>	
Chaudhuri	and phosphate sequestration	Indian	351564	November	Not Yet
	for environmental sustenance.			2020	
Dr Shaon Ray	A process and system for	Filed		21 <sup>st</sup> January	
Chaudhuri	ammonia removal from	Indian	202131002964	21 January 2021	Not Yet
	wastewater.	Patent		2021	

# 6. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

<u> </u>	mar ceremica	te, daring the dedderine year 2020 21.		
Name of Scholars	Par time/ Full time	Research topic	Name of Guide	Registered/Theses Submitted/ Awarded
Dr. Nandita Nath	Full time	Studies on potential yeast isolates from Traditional Alcoholic Beverages of Major Ethnic Tribes of Tripura	Dr Bipin Kumar Sharma	Awarded
Ms. Lovely Rahaman	Full time	Studies on phytochemical compounds as possible antibiofilm agents against pneumonia causing bacteria	Dr Bipin Kumar Sharma	Theses submitted
Mr. Sushanta Ghosh	Full time	Studies on yeast isolates of food origin with antimicrobial properties from in and around Agartala	Dr Bipin Kumar Sharma	Theses submitted
Mr. David Lalvohbika Kaipeng	Full time	Studies on citrus canker and greening disease affecting citrus crops of Tripura	Dr Bipin Kumar Sharma	Ph.D. Scholars registered
Ms. Debashree Borthakur	Part Time	-	Dr Bipin Kumar Sharma	Started course work
Dr Tethi Biswas	Full Time	Development of tailor- made consortia for efficient effluent treatment	Dr Shaon Ray Chaudhuri	Awarded

# 7. Outreach Footprint of the Department:

# 7.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/ Workshops/ Symposia Lecture/ Talk	International/ National	No. of Participants
1.	7 <sup>th</sup> November 2020	1 day	Women in Science: the North East Chapter.	Seminar	National	Online

2.	8 <sup>th</sup> June 2021	Half day	Innovative Scientific Intervention for Ecosystem Restoration.	Lecture	National	Online	
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# 7.2 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Dr Bipin Kumar Sharma	All India Association of Microbiologist	Life Member
Dr Bipin Kumar Sharma	Microbiologists Society, India	Life Member and State Coordinator
Dr Shaon Ray Chaudhuri	American Society of Microbiology	Contributing
Dr Shaon Ray Chaudhuri	American Chemical Society	Regular
Dr Shaon Ray Chaudhuri	Electron Microscope Society of India	Life Member; Executive Council
Di Silaoli Nay Cilauuliuli	Electron wheroscope society of india	Member
Dr Shaon Ray Chaudhuri	Association of Microbiologists of India	Life Member
Dr Shaon Ray Chaudhuri	Society for Applied Biotechnology.	Fellow
Dr Shaon Ray Chaudhuri	Eurasian Academy of Environmental Science.	Fellow
Dr Shaon Ray Chaudhuri	National Academy of Science India, Allahabad	Member
Dr. Ashwini Chauhan	American Society of Microbiology	Contributing Member
Dr. Ashwini Chauhan	India biofilm Society	Life Member

# 7.3 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Teaching Effectively organized by CALEM, at the UGC HRDC, Aligarh Muslim University, Aligarh (Dr. Ashutosh Kumar)	Workshop	Online	07 days	National From 16 February 2021 to 22 February 2021
Attended Online Coursera Conference 2021: Building a More Just World Together The agenda of conference were to teach: How higher education, business, and government institutions are bridging the skill gap, How to leverage the power of the Coursera platform to integrate online learning and improve student employability, How to prepare students and citizens for the economy of tomorrow. (Dr. Ashutosh Kumar)	Conference	Online	03 days	April 19-21, 2021
Implementation of New Education Policy- 2020" organized by Tripura University (Dr. Ashutosh Kumar)	Webinar	Online	02 days	From 11th to 12th June 2021
Dr. Ashwini Chauhan	HMX- Fundamentals – Immunology	Online (Harvard Medical School)	2.5 months	9th June-21st August2020
Dr. Ashwini Chauhan	Training Programme on Academic Leadership	Online (CALEM, UGC, HRDC, Aligarh Muslim University)	7 days	16th Feb -22nd Feb 2021



- 8. Major thrust area of research: Microbial Ecology, Antibiotic Resistance
- 9. New initiatives/Innovations:
  - a) Technology developed in 2020-2021 is the microbe based self-cleaning of aquarium that would minimize maintenance cost as well as save fresh water.
  - b) R & D of novel surface preventing bio-adhesion
  - c) R & D of novel ALT solutions for Catheters

#### 10. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B)
Total No. Of Lab (A+B)	No. of reaching Lab (A)	(Build up with Project Funding)
Seven	Three	Four

#### 11. Major Instruments available in the Department:

SL NO	Name of the Equipment	Supplier	Quantity & Price	Date & Year Of Purchase order
1	Compound Microscope (Make Magnus , MLX)	K.R. Lynch & Co.	10 Nos (17,337.00 each) Rs.1,73,370.00	11/07/13
2	Magnetic Stirrer (Remi Model 1L)	K.R. Lynch & Co.	1nos Rs.6,900.00	11/07/13
3	Vertical Autoclave (Model-YSI403 )	K.R. Lynch & Co.	1nos Rs.86,000.00	11/07/13
4	Non Refrigerated Programmable Incubator (Yorko make, Model-YSI-438)	K.R. Lynch & Co.	1nos Rs.71,000.00	11/07/13
5	Vortex Mixture (make Yorko, Model-YSI-512)	K.R. Lynch & Co.	1 nos Rs.6,200.00	11/07/13
6	Bioling Water Bath (Make Yorko, Model – YSI-512 Chamber size300x300x150mm)	K.R. Lynch & Co.	1 nos Rs.13,900.00	11/07/13
7	Electrophoresis System (make Peqlab, 45-lolo-I) 028810	Sigma-SVI Biosolution Pvt. Ltd.	1 nos Rs.149645	11/07/13
8	Horizontal Electrophoresis System (Make Genie, 106562GB)	Planters	1 nos Rs.11500/-/-	12/05/14
9	Vertical Electrophoresis System (Make Bio-Rad lab, cat-1658005)	Bio- Rad laboratories India pvt. Ltd.	1 nos Rs38672/-	12/05/14
10	Microscope Digital (make Gippo Nilpa Japan) S 500	Nilpa Consultancy	1 nos Rs.1,65,000.00/-	11/07/13
11	Laminer air flow (make S.D Instruments )	M/S sefali Enterprise	2 nos Rs.130000/- Each	11/11/14
12	Micro centrifuge (Make Eppendorf, 5418R, B427581R)	Eppendorf	1 nos Rs.2,25,750.00/-	11/07/13
13	Master cycler nexus ( make Eppendorf, 6333) PCR	Eppendorf	1nos Rs.3,670,500.00/-	11/07/13
14	Double Distillation Unit	B.K Enterprise	4nos (2pair) Rs. 3362/-	13/006/13
15	Orbital shaker (make Orbitek-Lt , 2013)	Scigenics Biotech Pvt. Ltd.	1nos Rs.1,45,506.00	11/07/13
16	Water bath (make Biocraft: BEA11)	Right Trading Co.	1nos 7,200.00	11/07/13
17	Refrigerator (make whirlpool) 365 ltrs	Right Trading	1nos Rs.21,500/-	11/07/13



18	Sonicator (make PCI –Model NO-PKS-750F)	Delta Technologies	1nos Rs.249000/-	28/03/14
19	UV-Vis Spectrophotometer (make SHIMADZU japan)	Sunjoy Technologies Pvt. Ltd.	1nos Rs.4,48,875.00	11/07/13
20	-20 Freezer Upright Type freezer (make Vest frost)	Sefali Enterprise	1 nos Rs.150000	30/04/14
21	-86° Ultra low Deep Freezer (make Esko) Model: UUS-552A-1-G2) Working at 230V/50Hz	Lachem and Labortenik instruments	1 nos Rs.440000/- (\$6,400.00)	07/08/13
22	Hot Air Oven (Make: Labmen)	B.K Enterprise	1nos Rs. 55,000.00/-	26/04/14
23	4º Refrigerator (make LG, ) 300ltrs	B.K Enterprise	02nos (Rs.28,500each) Rs.57,000.00	26/04/14
24	Micro wave oven (make Whirlpool) Capacity : 20ltrsS	B.K Enterprise	1nos Rs. 8,590.00/-	26/04/14
25	Remi Cooling centrifuge (make Remi, model C-24)	Indo scientific & Surgicals Pvt. Ltd	1nos Rs.2,24,175.00	20/06/16
26	Microprocessor Controlled Bio safety Cabinet (make LAB X, model LXDB4,	Bio Technical Resourcess	1nos Rs.2,69,075.00	08/11/16
27	Vaccum Rotary Evaporator with circulating Chiller (make Lab X Model LZDRV2C)	Bio Technical Resourcess	1nos 2,28,886.00	08/11/16
28	Laminar airflow Under Cell Culture Room (Make Labtek) Horizontal Laminar Make:Acmas Technologies(ACH-915H, Model:Lh-22)	Space-n service & Zephyer Enterprise(India)	1nos Rs. 499,000.00 culture room & Rs.68,259.00	08/05/15 & 30/04/14
29	UV- Transilluminator Model –WUV – I20UV Make - witeg	M/s Witeg Labortechnik GmbH (M/s Bio Scan Instruments)	1nos Rs.56,880.10/- (Euro671.31)	17/11/14
30	Incubator Refrigerable Make- Witeg	M/s Witeg Labortechnik GmbH (M/s Bio Scan Instruments)	(01 nos Euro3,361.46)	17/11/14
31	Fine Balance (make AFCOSET, Model:ER-200A, Cap:210G)	Labtek	01nos Rs.57,700.00S	12/05/14
32	Microplate Spectro Photo meter Gen5 (Biotech)	M/S Medispec India Ltd.	01 nos Rs.7,92,750/-	12/02/2020
33	Analytical Balance	M/S Biotech	01 nos Rs.262712	26/02/19
34	PH meter (Labtek)	Eutech Instruments (Oakton)	1nos Total Rs. 17500/-	11/13/19
35	Shaking Incubator(Tempster Model KSI-	M/S BioApps	01 nos Rs.1,70,000.00/-	11/03/19



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### 12. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigat or	Funding Agency	Total G (Rs. in La		Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Dr. Shaon Ray Chaudhuri	-	UGC DAE CSR	Validation of the efficacy of treated dairy effluent as biofertilizer for cultivation of economic crop.	Rs 8,39,400/-	Rs 2,26,440/-	28 <sup>th</sup> Oct 2019-27 <sup>th</sup> Oct 2022
Dr. Ashutosh Kumar	-	UGC	Systemic analyses of Toxin- Antitoxin (TA) systems of pathogenic and non-pathogenic strains of Mycobacterium tuberculosis - the potential drug targets?	10.00	Nil	3 years
Dr. Ashwini Chauhan	-	UGC	Central Venous catheter (CVC) associated bacterial biofilm infections: Novel Antibiotic Lock Therapy (ALT) using adjuvants	10 Lakhs		2years
Dr. Ashwini Chauhan	Dr. Manika Khanuja	DST- Nanomissi on	In vivo Central Venous Catheters associated biofilm infections: surface treatment using nanomaterials (NMs) to decrease the thrombotic and infection risks	89.9 Lakhs	36.2 Lakhs	3 years
Dr. Ashwini Chauhan	Dr. Manika Khanuja	ICMR	Devising Multi-characteristic Surface Coatings for Central Venous Catheters to prevent Biofilm Colonization and associated infections	56.6Lakhs	22.5 Lakhs	14. years

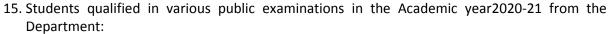
# 13. Awards/Medals/Honours<sup>#</sup>(State/ National/ International level) received by the Teachers during the academic year 2020-21:

Name of Teacher	Name of Awards/Medals/Honours	Date of Awards/ Medals/ Honours	Awarding Agency/ Institution	Remarks
Dr Shaon	NASI-Reliance Industries Platinum		National	Award Ceremony
Ray	Jubilee Award for Application Oriented	January 6 <sup>th</sup> 2021	Academy of	on February 27 <sup>th</sup>
Chaudhuri	Innovations in Biological Sciences 2020		Science India	2021

<sup>#</sup> In case of sports, inter university, zonal may also be considered.

## 14. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

			=
Name of Teacher	Name of other Universities /	Collaboration on Project	Year
Name of Teacher	Institutes / Industry	Collaboration on Project	(2020-21)
Dr M Sudarshan	UGC DAE CSR, Kolkata Centre	UGC DAE Project	From 2012 onwards
Dr Gopala Krishna Darbha	IISER, Kolkata	UGC DAE Project	From 2020 onwards
Dr. Manika Khanuja	Jamia Milia Islamia, N. Delhi	DST-Nanomission, ICMR	Since 2017
Dr. Prashant Kharkar	ICT, Mumbai	UGC	Since 2020
Dr. Anusha Shetty	Madras Medical Mission,	UGC, DST-Nanomission,	Since 2019
	Chennai	ICMR	3iiice 2019



Name	Sex (M/F)	Category (GEN/ ST/SC/ OBC/EWS/ MIN)	PH (Yes /No)	Name of the Organization/ Institution	Name of the Examination (NET/SLET/GATE/CAT/SSC/ UPSC/TPSC/Others/SWT*/SWO **
BRATATI PAUL	F	GEN	No	Research Assistant AGMC & GBP Hospital	GATE
SOUMYADIP GHOSH	М	OBC	No	MNIT, Jaipur, Rajasthan	SWT

<sup>\*</sup>Students Opting for Higher Studies With Examination; \*\*Students Opting for Higher Studies Without Examination.

#### 16. Details of Student's Placement known to the Department:

Name	Sex (M/F)	Category (GEN/ ST/ SC/ OBC/ EWS/ MIN)	PH (Yes /No)	Name of the Organization/Instit ution	Designation	Examinat ion Body	Name of the Examination
Shashi Prabha Yadav	F	OBC	NO	BGS GIMS Hospital, Bangalore	Lab.Tech	-	-
Neha Kaushik	1		NO	Skills Café- Transcendix Lip, Bangalore	Project Management Intern	-	-

# 17. Awards/Medals/Honours<sup>#</sup> (State/National/International level) received by the students during the academic year 2020-21:

Name of	Name of	Date of	Awarding	Remarks	
Students	Awards/Medals/Honours	Awards/Medals/Honours	Agency/Institution	Neillaiks	
Soumyadip Ghosh	AICE-JRF/SRF(Ph.D)-2020	23/12/20	ICAR KRISHI ANUSANDHAN BHAwan- II, PUSA, New Delhi	AIR-92 (C.R-28)	

# In case of sports, inter university, zonal may also be considered.



#### **DEPARTMENT OF MOLECULAR BIOLOGY AND BIOINFORMATICS**

Head of the Department : Dr. Surajit Bhattacharjee

Year of Establishment : 2011

Programmes on offer : M.Sc. & Ph.D. Intake capacity : 25 Nos in M.Sc.

#### Major achievements/ Vision of the Department:

The department is dedicated to offer the highest quality of teaching to its post graduate students and prepare them for the rapid advances, as well as the long-term trends, in the fields of Molecular Biology and Bioinformatics. Provide the science major with an introduction to Molecular Biology and Bioinformatics courses at the masters-level graduate studies. This Department provides a center of excellence that promotes the understanding of the molecular events of Life processes. Encourage and assure high quality research and other scholarly activity on the part of both faculty and students.

#### 1. Faculty Members:

,	uc O	_	Guest/	area	s of ob		h.D dance	Mas The Guid	esis		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/G Contract*	Research a	No. of year Teaching/ Research/jexperience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Surajit Bhattacharjee	Ph.D	Assistant Professor	Full time	Host-pathogen interaction	12	4	4	20	15	2543	27

<sup>\*</sup>Must be mentioned

#### 2. Visiting Teacher/ Visiting Fellow:

Name	Topics of courses/lectures taught in Tripura	Institution affiliated with now/previously (if		
	University	retired)		
Prof. Sanjit	MBB802C- Recombinant DNA Technology	Dept. of Physiology, Dept. of Sports Siences,		
Dev	MBB803E- Bioenergetics, Enzyme and Metabolism	Centre for Research in Nano Sciences and		
Dey	Wibbboose- bioenergetics, Enzyme and Wetabolism	Nanotechnology, University of Calcutta		
Prof. Tapash	MBB804E- Bioinformatics- Genomics and	Dept. of Microbiology, Raiganj University,		
C. Ghosh	Proteomics	Bioinformatics Centre		

- 3. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:
  - 3.1 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National / Inter- national	Name of the Journal/ Proceedings/ Magazine	Volu me	Year (2020 -21)	ISSN/ ISBN/ DOI	Page No.
Surajit	Trishna	Barley beta-	Inter-	Scandinavian		2020	1365-	-
Bhattacharjee	Mahanty,	Glucan and	national	Journal of			3083	
	Chandan	Zymosan induce		Immunol				
	Raybarman,	Dectin-1 and Toll-						
	Aditya Y	like receptor 2 co-						
	Sarode, Surajit	localization and						
	Basak, Bhaskar	anti-leishmanial						

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	Saha 1, Surajit	immune response					
	Bhattacharjee	in Leishmania					
		donovani-infected					
		BALB/c mice					
Surajit	Junaid Jibran	Lupeol and	Inter-	Cytokine	2021	-	-
Bhattacharjee	Jawed , Manash	amphotericin B	national				
	C Das, Shabina	mediate					
	Parveen,	synergistic anti-					
	Chinmoy	leishmanial					
	Ghosh, Subrata	immunomodulato					
	Majumdar,	ry effects in					
	Bhaskar Saha,	Leishmania					
	Surajit	donovani-infected					
	Bhattacharjee	BALB/c mice					
Baibaswata	Surajit	Conundrums in	Inter-	Cytokine	2021	-	-
Saha	Bhattacharjee,	leishmaniasis.	national				
	Arup Sarkar,						
	Renuka Bhor,						
	Kalpana Pai,						
6	NeelamBodhale	6	1.1	6 1 11	2024		
Surajit	Surajit	Central and local	Inter-	Cytokine	2021	-	-
Bhattacharjee	Bhattacharjee	controls of	national				
		monocytopoiesis					
		influence the outcome of					
		Leishmania					
		infection					
Poulomi	Payel Paul,	Attenuation of	Inter-	Folia	2021	_	_
Chakraborty	Monika Kumari,	Pseudomonas	national	Microbiol	2021		
Character	Surajit	aeruginosa biofilm	national	(Praha)"			
	Bhattacharjee,	by thymoquinone:		(1.10.10)			
	Mukesh Singh, Debasish Maiti,	an individual and					
	Debabrata	combinatorial					
	Ghosh Dastidar,	study with					
	Yusuf Akhter,	tetrazine-capped					
	Taraknath	silver					
	Kundu, Amlan Das, Prosun	nanoparticles and					
	Tribedi	tryptophan					
Bhaskar Saha,	Ashok Patidar,	Interdependencie	Inter-	Immunology	2021	-	-
Surajit	Uddipan Sarma,	s between Toll-	national				
Bhattacharjee	Prashant	like receptors in					
	Chauhan, Surya	Leishmania					
	PrakashPandey, Himanshu Singh	infection.					
	Chandel,						
	NeelamBodhale						
	, Soumya Kanti						
	Ghosh, Carlos						
	AlbertoGuzman						
	, Thomas						
	Ebensen, Ricardo						
	Silvestre, Arup						
	Sarkar, Bhaskar						
	Saha, Surajit						
	Bhattacharjee						

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Payel Paul	Poulomi	Tryptophan	Inter-	3 Biotech	2021	-	-
	Chakraborty,	interferes with the	national				
	Ranojit K	quorum sensing					
	Sarker, Ahana	and cell surface					
	Chatterjee,	hydrophobicity of					
	Debasish Maiti,	Staphylococcus					
	Amlan Das,	aureus: a					
	Sukhendu	promising					
	Mandal, Surajit	approach to					
	Bhattacharjee,	inhibit the biofilm					
	Debabrata	development					
	Ghosh Dastidar,						
	Prosun Tribedi						

4. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conference/ Seminar/ Workshop attended			
Name	Research Scholar	International	National	Institution Level	
Dr. Surajit Bhattacharjeee	Teacher	01	-	-	

5. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Dr. Surajit Bhattacharjeee	Online	23 <sup>rd</sup> March 2021	The Neotia University , (TNU), Kolkata West Bengal.	Importance of interdisciplinary and collaborative efforts for effective research output

6. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year 2020-21:

Name of Scholars	Par time/ Full time	Research topic	Name of Guide	Registered/Theses submitted/ Awarded
Dr. Chandan Raybarman	Full Time	Repurposing gabapentin and pregabalin as Anti-proliferative and antibacterial agents.	Dr. Surajit Bhattacharjee	Registered
Mrs. Sanghamitra Goswami	Full Time	Antimicrobial and antibiofilm efficacy of phytochemicals through biocompatible hydrogel and nanogel formulations.	Dr. Surajit Bhattacharjee	Registered

7. Outreach Footprint of the Department:

7.1 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	ended Location		Date
Dr. Surajit Bhattacharjee	Teachers on Using ICT for Online Teaching Learning Process	Conducted by Faculty Development Centre, Tripura University	Two Weeks	1 <sup>st</sup> to 14 <sup>th</sup> December, 2020
Dr. Surajit Bhattacharjee	Department of Science and Technology sponsored Workshop on Basic and Advanced Proteomics Approaches from	Organized by IIT Bombay	2- week	15 <sup>th</sup> - 26 <sup>th</sup> February 2021



- 8. Major thrust areas of research: Infection Biology, Immunology and Bacterial Biofilm.
- 9. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B) (Build up with Project Funding)
4	2	2

#### 10. Major Instruments available in the Department:

- 1. BOD Incubator,
- 2. Bio-safety Cabinet,
- 3. PCR machine,
- 4. Cold Centrifuge,
- 5. Western Blot apparatus,
- 6. Tissue Culture Room,
- 7. Water purification system
- 8. Spectrophotometer
- 9. Server Computer
- 10. Binocular Microscope
- 11. Heat Blocker
- 12. Shaker Incubator
- 13. Circulating water bath
- 14. 4ºC Refrigerator
- 15. -20°C Freezer
- 16. Ice flaker

#### 11. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Dr. Surajit Bhattacharjee, Tripura University	Dr. U. C. De, Tripura University	DBT	"Neo-therapeutic strategy for tuberculosis with the combination of conventional antibiotics and natural flavon compounds that inhibits biofilm	72.97	Nil	3 years

#### 12. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

Name of	Name of other Universities /	Collaboration on Project	Year
Teacher	Institutes / Industry	Collaboration on Project	(2020-21)
Dr. Surajit Bhattacharjee	Indian Institute of Agricultural Biotechnology, ICAR, Ranchi.	Natural Gum based nanocomposite hydrogel having Antibacterial and Wound Healing Effects and a method of Preparation	2020-2021



13. Students qualified in various public examinations in the Academic year2020-21 from the Department:

Name	Sex (M/F)	Category (GEN/ ST/SC/ OBC/EWS/MIN)	PH (Yes /No)	Name of the Organization/Institution	Name of the Examination (NET/SLET/GATE/CAT/SSC/ UPSC/TPSC/Others/SWT*/SWO**
Prasenjit Das	Male	SC	No	Food corporation of India, Lawngtlai, Mizoram	Food corporation of India

<sup>\*</sup>Students Opting for Higher Studies With Examination; \*\*Students Opting for Higher Studies Without Examination.

14. Details of Student's Placement known to the Department:

Name	Sex (M/F)	Category (GEN/ST/ SC/OBC/ EWS/MIN)	PH (Yes /No)	Name of the Organization/ Institution	Designation	Examination Body	Name of the Exam- ination
Madhubanti	Female	UR	No	Indigene Private	Associate clinical	-	
Roy	remale	UK		Limited, Bangalore	data analyst		-
Sagardip	Male	GEN	No	Molbio Diagnostics	Application	-	
Dey	iviaie	GLIN		Pvt. Ltd.	Specialist		_



Head of the Department : Dr. Pratap Chandra Acharya (Head-in-Charge)

Year of Establishment : 2011

Programmes on offer : M.Pharm in Pharmaceutical Chemistry, Ph.D.

Intake capacity : 15 (PCI Approved)

#### Major achievements/ Vision of the Department:

The Department of Pharmacy in Tripura University (A Central University), Suryamaninagar was established in the year 2011 with the goal of imparting postgraduate education and research training in pharmaceutical sciences for the first time in the state of Tripura. The primary objective of the Department of Pharmacy is to develop programs relevant to current global standards to meet the challenges of pharmaceutical industry. The Department of Pharmacy also endeavors for excellence in drug discovery research projects to develop novel therapeutics for contemporary health problems. The department offers Master of Pharmacy (M. Pharm., a four-semester full time program) in Pharmaceutical Chemistry and Ph.D degrees in various disciplines of pharmaceutical sciences. The M.Pharm program of the department has been affiliated with Pharmacy Council of India (PCI), New Delhi and AICTE, New Delhi.

These programs amalgamate advanced theoretical knowledge with independent research training in the field of drug discovery and pharmaceutical chemistry under the supervision of experienced faculty members. Courses in our curriculum emphasize on promoting discovery of newer therapeutic molecules with better efficacy and safety profile. The candidates receive basic and advance knowledge in the areas of pharmaceutical chemistry, phytopharmaceuticals, nanopharmaceuticals, modern analytical techniques and structure-based drug design research. Therefore, our program enables our students to strive for higher professional achievements in pharmaceutical industry, entrepreneurship as well as academic sector.

#### Vision

To establish the Department of Pharmacy as a model institute of pharmaceutical research and education in the country to meet the global challenges of the industry and thereby developing pharmacy professionals with highest professional acumen and achievements.

#### Mission

- ✓ To establish the department as a center of excellence for research and development in the field of pharmaceutical sciences
- ✓ To impart quality education in pharmacy through teaching learning processes.
- √ To carry our pharmaceutical industry oriented interdisciplinary biomedical research.
- ✓ To establish international collaborations for global exchange of the knowledge.

#### **Future Plans**

- 1. Modernization of the existing laboratories through extramural research funding
- 2. Establishment of smart class room with e-library facility.
- 3. Introduction of other specializations of pharmaceutical science to enhance interdisciplinary research.
- 4. Placement drive for all students of the department



#### **Our Strengths**

- ✓ Meritorious and dedicated students and research scholars
- ✓ Learned and experienced faculty members committed for excellence in teaching and research.
- ✓ Centralized and departmental research facility
- ✓ Infrastructure and library facilities

#### **Infrastructure and Research Facilities**

Our department is housed in the newly built Academic Building-XI, Block-A (Ground floor) within the serene campus of Tripura University (A Central University) in a sprawling 75 acres of land at Suryamaninagar, Tripura. The entire campus including the library is Wi-Fi enabled with free access to the students and staffs. A central animal house is also available within the campus to conduct various biomedical research activities.

1. Faculty Members :

	_		est/	ā	of b	Ph Guida		The	ster esis ance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years o Teaching/ Research/job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr				Pharmaceutical							
Pratap	Ph.D	Assistant	Full	Chemistry	09 Years	Nil	04	18	03	185	07
Chandra	PII.D	Professor	time	(Anticancer Drug	U9 rears	INII					
Acharya				Discovery)							
Dr.		Assistant	Full	Pharmaceutical						523	11
Kuntal	Ph.D.	Professor	time	Chemistry	18 years	-	4	25	3		
Manna		110163301	tille	Chemistry							
Rajat	M.	Assistant	Full	Pharmaceutical	10 years	NA	NA	22	04	142	05
Ghosh	Pharm	Professor	time	Chemistry	10 years	INA	INA		04		

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC Approved/ Peer reviewed/ referred only:

#### 2.1 Book Chapters:

Main	Co-	Title of the	Book	Name of	Local/	Publis	Year	ISBN	Page
Author	Author	Chapter	Editors	the Book	National/	hers	(2020		No.
	S				Inter-		-21)		
					national				
S Biswal,	Ghosh,	Pharmacology of	Р	Frontiers in	Inter-	Sprin	2020	ISBN 978-981-	361-
PC	R	Angiotensin and	Bansal,	Pharmacol	national	ger		15-3555-0,	380
Acharya		Its Receptors	PK Deb	ogy of				ISBN 978-981-	
				Neurotrans				15-3556-7	
				mitters,				(eBook	



-							2025	1001107000	
S	S	Hormones and	Р	Frontiers in	Inter-	Sprin	2020	ISBN 978-981-	447-
Marwein	Biswal,	Steroids as	Bansal,	Pharmacol	national	ger		15-3555-0,	501
, PC		Neuro		ogy of				ISBN 978-981-	
Acharya		transmitters		Neurotrans				15-3556-7	
				mitters,				(eBook	
S Mallik,	-	Pharmacology of	PK Deb	Frontiers in	Inter-	Sprin	2020	ISBN 978-981-	683-
PC		Calcium Channel		Pharmacol	national	ger		15-3555-0,	721
Acharya				ogy of				ISBN 978-981-	
				Neurotrans				15-3556-7	
				mitters,				(eBook	
	В	Major	Atta-					Online: 978-	
	Debnath	Debnath metabolites of certain	ur-	Frontiers in		Bneth		981-14-4846-	
K Manna	, WS		Rahma	Natural	Inter-	am	2020	1	124-
	Singh		n, FRS	Chemistry	national	Scien	2020	Print: 978-	150
		marketed plant		(Volume 6)		ce		981-14-4844-	
		alkaloids						7	
	DK		Debars						
	Mahapa		hi Kar	Applied					
	tra, K	Ocimum	Mahap	Pharmaceu		Tandan			
	Manna	sanctum L.(Holy	atra,	tical	last a a	Taylor		ISBN	0.5
M Das		Basil or Tulsi): A	Swati	Science	Inter-	& - ·	2020	97817718889	95-
		Medicinally	Gokul	and	national	Trancis		12	115
		Significant Herb.	Talele,	Microbiolo		Group			
			A. K.	gy.					
			Haghi	<i>.</i>					

# 2.2 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ Inter- national	Name of the Journal/ Proceedings / Magazine	Volu me	Year (2020 -21)	ISSN/ ISBN/ DOI	Page No.
R Ghosh, PC Acharya	JB Vitor, E Mendes, A Paulo	Stereoselective synthesis of spirooxindole derivatives using one- pot multicomponent cycloaddition reaction and evaluation of their antiproliferative efficacy	Inter- national	ACS Omega	5	2020	https://doi. org/10.102 1/acsomeg a.0c03675	27332 - 27343
Singh W S	Manna K	Synthesis and pharmacological evaluation of substituted (1H-tetrazol-1-yl) pyridines	National	Journal of Advance Scientific Research	12	2021	ISSN: 0976- 9595	117- 127
Singh W S	Debnath B, Manna K	Recent Trends in the Development of Benzimidazole Hybrid Derivatives and Their Antimalarial Activities	Inter- national	Fine Chemical Engineering	2	2021	ISSN: 2717- 5677 (Print) 2717-5685 (Online)	44-53

B Debnath,	WS Singh, S Goswami, K Manna	Taxonomical, Phytochemical, Traditional Explanation, Nutritional Values, and Biological Activities of Certain Edible Medicinal Plants of Tripura, India	National	Journal of Natural Remedies	1	2021	Print ISSN : 0972-5547	173- 188
B Debnath,	K Manna	Ethnomedicinal Information and High- Performance Liquid Chromatography Analysis of Water Soluble Vitamins (C, B1, B3, B6, folic acid) and Fat Soluble Vitamins (A, D3, E) of Three Consumable Parts of Musa paradisiaca: Cultivated in Tripura, India.	Inter- national	Food Science and Engineering	2	2021	ISSN: 2717- 5820 (Print) 2717-5839 (Online)	31-37
B Debnath,	WS Singh, K Manna	A phytopharmacological review on Ananas comosus.	Inter- national	Advances in Traditional Medicine	-	2021	Print: 2662-4052	1-8
Bikash Debnath	Waikho m Somraj Singh, K Manna,	The Outbreak of Coronavirus Disease 2019 (COVID-19) and its Manifestation	Inter- national	Coronavirus es	2	2021	ISSN: 2666- 7975 (Online) ISSN: 2666- 7967 (Print)	7
MJ Uddin,	B Debnath , P Patari, SK Nag, SK Sil, K Manna	Ethnomedicinal survey and determination of total alkaloids and phenolics in selected edible plants of Tripura, India.	Inter- national	Journal of Medicinal Plants	9	2021	Print: 2394-0530; Online: 2320-3862	123- 131
B Debnath,	WS Singh, M Das, S Goswam i, K Manna	Biodynamic activities of ellagic acid: A dietary polyphenol.	Inter- national	Journal of Nature and Science of Medicine	3	2020	DOI: 10.4103/JN SM.JNSM_ 32_19	83-90
Sanchari Goswami	Kuntal Manna	Comparison of the effects of cooking methods on nutritional composition of fresh and salted Tenualosailisha	Inter- national	Aquaculture and Fisheries	5	2020	ISSN: 2468- 550X	294- 299

Sanchari Goswami	Kuntal Manna	Nutritional Analysis and Overall Diet Quality of Fresh and Sun-dried Mystusbleekeri.	Inter- national	Current Nutrition & Food Science	16	2020	ISSN: 2212- 3881 (Online) ISSN: 1573- 4013 (Print)	1-7
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3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Conference/ Seminar/ Workshop attended				
Name	Research Scholar	International	National	Institution Level		
Rajat Ghosh	Teacher	00	01	00		
Dr. Pratap Chandra Acharya	Teacher	00	03	00		
Dr. Kuntal Manna	Teacher	01	00	00		
Waikhom Somraj Singh	Scholar	01	00	00		
Satyajeet Biswal	Scholar	01	00	00		
SumantaDebbarma	Scholar	01	00	00		

4. Visiting Faculty from Tripura University to other Institutions/Universities:

Name	From (DD/MM/YY)	To (DD/MM/YY)	Institutions/ Universities	Name of the Department / School (where invited as visiting faculty)
Rajat Ghosh	17/08/2020	18/08/2020	Bharat Pharmaceutical Technology, Amtali, Agartala, West Tripura, Tripura-799130	Pharmacy
Dr. Pratap Chandra Acharya	17/08/2020	18/08/2020	Bharat Pharmaceutical Technology, Amtali, Agartala, West Tripura, Tripura-799130	Pharmacy

5. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/ Universities	Title of Invited talk
Rajat Ghosh	Amtali, Agartala, West Tripura, Tripura- 799130	18 <sup>th</sup> to 19 <sup>th</sup> September 2020	Bharat Pharmaceutical Technology	Webinar on New Education Policy: 2020
Rajat Ghosh Dr Pratap Chandra	Amtali, Agartala, West Tripura, Tripura- 799130 Amtali, Agartala, West	22 <sup>nd</sup> August 2020 to 24 <sup>th</sup> August 2020 18 <sup>th</sup> to 19 <sup>th</sup> September	Bharat Pharmaceutical Technology Bharat Pharmaceutical	Webinar on Covid 19: Drug Discovery & Role of Modern Pharmacist Webinar on New Education
Acharya	Tripura, Tripura- 799130	2020	Technology	Policy: 2020
Dr Pratap Chandra Acharya	Berhampur, Odisha	15 <sup>th</sup> March to 26 <sup>th</sup> March 2021	Roland Institute of Pharmaceutical Sciences	AICTE Sponsored Online Faculty Development Programme (FDP) On "Emerging Trends in Drug Design and Development"

# 4

### 6. Ph.D. Scholars registered (started course work) during the academic year2020-21:

Name of Scholars	Par time/	Research topic	Name of Guide	Registered/Theses
Name of Scholars	Full time	nesearch topic	ivalile of Guide	submitted/ Awarded
Mr. Satyajeet Biswal	Full time	Drug delivery to colon cancer	Dr. Pratap	Registered
ivii. Jacyajeet biswai	i uli tillie	Drug delivery to cololi calicel	Chandra Acharya	Negistered
Mr. Sumanta Debbarma	Full time	Antineoplastic drug discovery	Dr. Pratap	Registered
IVII. Sumanta Debbanna	i un time	Antineopiastic drug discovery	Chandra Acharya	iveRisteren

## 7. Outreach Footprint of the Department:

# 7.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/ Workshops/	International / National	No. of Participants
				Symposia Lecture/ Talk		
1	27-28 <sup>th</sup> August, 2020	2 Days	Drug Discovery & Drug Development	Webinar	International	150
2	12 <sup>th</sup> March, 2020	1 Day	Cutting edge technologies in chromatography and mass spectrometry	Seminar	National	50

## 7.2 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Dr. Kuntal Manna (Faculty)	The Indian Pharmaceutical Association, Mumbai, INDIA	Life Member
Dr. Kuntal Manna (Faculty)	West Bengal Pharmacy Council, Lyons Range, Calcutta.	Registered Pharmacist
Dr. Pratap Chandra Acharya (Faculty)	Odisha State Pharmacy Council	Registered Pharmacist
Dr. Pratap Chandra Acharya (Faculty)	The Indian Pharmaceutical Association, Mumbai, INDIA	Life Member
Mr Rajat Ghosh (Faculty)	Tripura State Pharmacy Council	Registered Pharmacist
Mr Rajat Ghosh (Faculty)	Indian Pharmaceutical Association (IPA), Mumbai	Life Member
Mr Rajat Ghosh (Faculty)	The Indian Pharmaceutical Association, Mumbai, INDIA	Life Member
Sanchari Goswami (Scholar)	Tripura State Pharmacy Council	Registered Pharmacist
Manik Das (Scholar)	Tripura State Pharmacy Council	Registered Pharmacist
Waikhom Somraj Singh (Scholar)	Indian Science Congress	Member
Waikhom Somraj Singh(Scholar)	Manipur State Pharmacy Council	Registered Pharmacist
Waikhom Somraj Singh (Scholar)	Institution Innovation Council (IIC), Tripura University (A Central University)	Student Internship Coordinator
Bikash Debnath (Scholar)	Tripura State Pharmacy Council	Registered Pharmacist
Bikash Debnath (Scholar)	Institute of Scholar, Bangalore	Member
Satyajeet Biswal (Scholar)	Odisha State Pharmacy Council	Registered Pharmacist

Satyajeet Biswal (Scholar)	Indian Pharmaceutical Association (IPA), Mumbai	Life Member	
Sumanta Debbarma (Scholar)	Tripura State Pharmacy Council	Registered Pharmacist	
Sarapynbiang Marwein (Scholar)	Meghalaya State Pharmacy Council	Registered Pharmacist	

#### 7.3 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date	
Dr Pratap Chandra	Refresher Course	Tripura University	Two Weeks	1 <sup>st</sup> to 14 <sup>th</sup>	
Acharya	Refresher Course	(A Central University)	Two weeks	December, 2020	
Dr Dratan Chandra		Dr D Y Patil Institute of		10 <sup>th</sup> to 16 <sup>th</sup>	
Dr Pratap Chandra	Refresher Course	Pharmaceutical Sciences and	One Weeks	December 2020	
Acharya		Research		December 2020	
Dr Pratap Chandra	Refresher Course	Tripura University	One Weeks	21 <sup>st</sup> to 25 <sup>th</sup>	
Acharya	Refresher Course	(A Central University)	One weeks	September 2020	

#### 8. Major thrust area of research:

- ✓ Natural products-based drug discovery
- ✓ Anticancer and antidiabetic drug discovery.
- ✓ Analytical method development
- ✓ Heterosteroid synthesis and steroid modifications
- ✓ Synthesis of lipid-drug bioconjugates and heterocyclic small molecules to target cancer & neurodegenerative diseases
- ✓ Synthesis of glycolipids for nanodelivery of anticancer drugs

#### 9. New initiatives/Innovations:

Various funded projects sanctioned by UGC, DBT, DST and AICTE are being run in the department towards development of new drug candidates to target cancer, diabetes and neurodegenerative diseases.

#### 10. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B) (Build up with Project Funding)
05	02	03

#### 11. Major Instruments available in the Department:

- ✓ ATR-FTIR Alpha, Bruker, Germany.
- ✓ Digital Magnetic Stirrer with Hot Plate, Tarson, India.
- ✓ Digital Melting Point Apparatus.
- ✓ Digital pH meter, Mettler, USA.
- ✓ Fume hood
- ✓ Hot Air Oven, Labman, India.
- ✓ Ice Flaking Machine , Simag, Italy.
- ✓ Mechanical Overhead Stirrer, IKA, Germany.
- ✓ Melting Point Apparatus, Sunsim& Stuart, India.
- ✓ Mettler Toledo Balance, Mettler, USA.

- ✓ Oil cum Water bath SNS, India.
- ✓ Polarimeter
- ✓ Rotary Evaporator with Chiller, IKA, Germany.
- ✓ Rotary Vane Vacuum Pump, Tarson, India.
- ✓ Ultrasonic Bath
- ✓ UV Chamber for TLC.
- ✓ UV Spectrophotometer, Shimadzu, Japan.
- ✓ Vacuum Pump.
- ✓ Water Bath.
- ✓ Water Distillation Unit, Riviera, India.

#### 12. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Rajat Ghosh	-	AICTE, New Delhi	Rational design and synthesis of isatin inspired spirooxindole derivatives as antineoplastic agents	15.8	15.62 Sanction received	36 Months
Bimal Debnath	Pratap Chandra Acharya, Rajat Ghosh,	DBT, New Delhi	Phytochemical and pharmacological evaluations of bioactivity guided fractions of medicinal plants of Tripura	73.91	30.00	36 Months
Dr. Kuntal Manna	-	All India Technical Education (AICTE)	Formulations and evaluation of herbal nutraceutical solid dosage forms using indigenous edible plant parts/vegetables of North-Eastern Himalayan region as sources of nutrients and health benefitting components	15.25	15.01 Sanction received	Three years
Dr. Kuntal Manna	-	Indian Council of Medical Research (ICMR)	Formulation and suitable biological evaluation of herbal nutraceutical tablet doses form using indigenous edible plants components of Tripura'	14.208	14.208 Sanction received	Three years
Dr Pratap Chandra Acharya	-	CSIR, New Delhi	Stereoselective synthesis of heterosteroidal spirocyclic oxindoles as antineoplatic agents	20.12	5.5708	03 Years
Dr Pratap Chandra Acharya	-	DBT, New Delhi	Investigation of hydrophobically modified polysaccharides for nanodelivery of anticancer drugs in the treatment of multidrug resistance colon cancer	65.964	23.30 Sanction received	03 Years

Dr Pratap Chandra Acharya	-	ICMR, New Delhi	Exploring G-Quadruplex ligands to Target colon cancer	19.875	16.4625	02 Years
Dr Pratap Chandra Acharya	-	AICTE, New Delhi	Exploring pectin based nanoconjugates of anticancer drugs for site specific drug delivery in colon cancer	23.65568	23.65568	03 Years

# 13. Awards/Medals/Honours<sup>#</sup>(State/National/International level) received by the Teachers during the academic year 2020-21:

Name		Date of Awards/	Awarding	
of	Name of Awards/Medals/Honours	Medals/ Honours	Agency/	Remarks
Teacher		ivieuais/ Hollouis	Institution	
Rajat Ghosh	Received award (Third Prize) for the presentation on "Synthesis of Spirooxindole Derivatives Using a Facile Onepot Dipolar Cycloaddition Reaction and Evaluation of Their Antiproliferative	28-29 January, 2021	Pharma Medical Sciences Development	Third Prize
	Efficacy", in International Conference On Recent Trends in Pharmaceutical, Medical and Applied Sciences for Global Development (RTPMASGD-2021)		Society, Rampur, U.P., India	
Dr. Kuntal Manna	Best outstanding Paper in the 1 <sup>st</sup> International Conference on Industrial Development in the North Eastern Region- Challenges and Opportunities	29th February 2020	Department of Business Management, Tripura University, India	The International Conference was sponsored by North Eastern Development Council, Shillong under Ministry of Development of North Eastern Region, Govt. of India

# In case of sports, inter university, zonal may also be considered.

# 14. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

Name of Teacher	Name of other Universities / Institutes /	Collaboration on	Year
Name of Teacher	Industry	Project	(2020-21)
Rajat Ghosh	IIT-BHU	DBT Twinning	2020-21
Dr Pratap Chandra Acharya	Bombay College of Pharmacy	DBT-Twinning	2020-21
Di Fratap Chandra Acharya	(Autonomous), Mumbai University	DD1-1Willilling	
Dr Pratap Chandra Acharya	IIT-BHU, Varanasi	DBT-Twinning	2020-21
Dr Pratap Chandra Acharya	University of Lisbon, Portugal	ICMR and CSIR	2020-21

# 4-0

15. Students qualified in various public examinations in the Academic year 2020-21 from the Department:

Name	Sex (M/F)	Category (GEN/ ST/SC/ OBC/EWS/MIN)	PH (Yes /No)	Name of the Organization/Institution	Name of the Examination (NET/SLET/GATE/CAT/SSC/ UPSC/TPSC/Others/SWT*/SWO**
Nidahun Lamre	F	ST	No	AICTE, New Delhi	GPAT
Kulungti Jamatia	F	ST	No	AICTE, New Delhi	GPAT

## 16. Details of Student's Placement known to the Department:

			PH	Name of the		Examination	Name of
Name	Gender	Category		Organization/	Designation	Body	the
				Institution		Bouy	Examination
				Girijananda			
Mr. Ranadeep	Male	GEN	No	Chowdhury Institute of	Assistant		
Borgohain	iviale	GEN	INO	Pharmaceutical	Professor	-	-
				Science, Guwahati			
Mr. Subhra	Male	SC		Sun Pharmaceuticals	Trainee		
			No	0	sales	-	-
Baishnab				Industries ltd.	executive,		
Ms. Gangotri	Female	ST	No	ILS Hospital, Agartala	Pharmacist		
Debbarma	remale	31	INO	ils Hospital, Agaitala	Pilatiliacist	-	-
Mr Naithok	Male	ST	No	ILS Hospital, Agartala	Pharmacist		
Jamatia	iviale	31	INO	ilo nospilal, Agailala	riidiilldClSt	-	-
Mr Couray Caba	Mala			Regional Food	Application		
Mr Sourav Saha	Male	Gen	No	Laboratory, Agartala	Specialist	-	-



Head of the Department: Prof. Surya Chattopadhyaya

Year of Establishment : 1990

Programmes on offer : M.Sc. in Physics, Ph.D. in Physics

Intake capacity : M.Sc. in Physics: 28 number in each semester (Total 28 + 28 = 56 in

two semesters)

Ph.D. in Physics: Number of intake varies from year to year. At

present there are 21 Research Scholars working in various groups of

the department.

#### Major achievements/ Vision of the Department:

**a.** Department of physics offering M.Sc. in physics (CBCS system). Major courses offered by the department in the M.Sc. level are: Classical Mechanics, Mathematical Physics, Statistical Physics, Quantum Mechanics, Nuclear and Particle Physics, Atomic and Molecular Physics, Electrodynamics and Special Theory of Relativity, Astrophysics, Electronics, Computer Programming and projects on various topics. Besides these subjects, students are also allowed to take elective subject from other departments and also computer fundamental course.

- **b.** A large number of students each year qualify NET and SET. After passing M.Sc. most of them are absorbed in different positions, mostly in schools, colleges, banks and other departments of the State and Central governments. A few of them also pursue Ph.D. work in Tripura University as well as also in other Universities / Institutions.
- **c.** Department received a grant of Rs. 175 lakhs from FIST- DST and Rs 108.5 lakhs from UGC to develop better research facilities and also for better Laboratory and infrastructure facilities for the students, scholars and faculty members of the department.
- **d.** Faculty members also received a good number of projects (more than 425 lakhs) from various Central funding agencies namely DST, CSIR, ISRO, UGC etc.

#### 1. Faculty Members:

			Guest/		rs of Research/ ence	Ph. Guid		Ma: The Guid	esis		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Gue Contract*	Research area	No. of years of Teaching/ Rese job experience		Existing	Guided	Existing	Citation	H-index
Prof. Debajyoti Bhattacharjee	Ph.D.	Professor	Full time	Thin Film and Nano Science	22	09	01	00	00	1000	18
Prof. Surya Chattopadhyaya	Ph.D.	Professor	Full time	Theoretical condensed matter physics & materials science	19	02	06	00	00	205	8
Dr. Syed Arshad Hussain	Ph.D.	Associate Professor	Full time	Thinfilms & Nanoscience	17	09	04	00	00	1335	21

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Dr. Anirban Guha	Ph.D.	Assistant Professor (Stage III)	Full time	Atmospheric Science	14	04	04	00	00	607	14
Dr. Ratan Das	Ph.D.	Assistant Professor (Stage II)	Full time	Nanophysics and Nanotechnology	9	2	3	00	00	885	16

<sup>\*</sup>Must be mentioned

2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:

## 2.1 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ Inter- national	Publishers	Year (2020 -21)	ISBN	Page No.
Anirban Guha	Y. Liu, E. Williams, C. Schumann and H. Hun	I Warning	Chandima Gomes	Lightning: Understandin g Science, Engineering and Economic Implications for Developing Countries	Inter- national	Centre for Science & Technology of the Non- Aligned and other Developing Countries (NAM S&T Centre) New Delhi, India	2020	ISBN 978- 981- 16- 3439 -0	

## 2.2 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ Inter- national	Name of the Journal/ Proceedings / Magazine	Volu me	Year (202 0- 21)	ISSN/ ISBN/ DOI	Page No.
Surya Chattopa dhyaya	Sayantika Chanda, Manish Debbarma, Debankita Ghosh, Subhendu Das, Bimal Debnath, Rahul Bhattacharjee, Surya Chattopadhyaya	Cationic and anionic concentration dependent elastic properties of zinc blende specimens within Cd <sub>x</sub> Zn <sub>1-x</sub> S <sub>y</sub> Se <sub>1-y</sub> quaternary system: Calculations with density functional theory	Inter- national	Solid State Communicat ions [ELSEVIER]	322	2020	DOI: https://d oi.org/10 .1016/j.s sc.2020. 114050	1140 50
Surya Chattopa dhyaya	Debankita Ghosh, Sayantika Chanda, Bimal Debnath, Manish Debbarma, Rahul Bhattacharjee, Surya Chattopadhyaya	Density functional study on structural and optoelectronic properties of cubic Mg <sub>x</sub> Zn <sub>1-x</sub> S <sub>y</sub> Se <sub>1-y</sub> semiconductor quaternary alloys	Inter- national	Pramana- Journal of Physics [SPRINGER]	94	2020	DOI: https://d oi.org/10 .1007/s1 2043- 020- 01975-0	1

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Surya Chattopa dhyaya	Manish Debbarma, Subhendu Das, Bimal Debnath, Debankita Ghosh, Sayantika Chanda, Rahul Bhattacharjee, Surya Chattopadhyaya	Density functional study of elastic and thermal properties of cubic mercury- zinc-chalcogenide ternary alloys	Inter- national	Bulletin of Materials Science [SPRINGER]	43	2020	DOI: https://d oi.org/10 .1007/s1 2034- 020- 02236-x	268
Surya Chattopa dhyaya	Sayantika Chanda, Debankita Ghosh, Bimal Debnath, Manish Debbarma, Rahul Bhattacharjee, Surya Chattopadhyaya	First-principle calculations of structural and optoelectronic properties of cubic Cd <sub>x</sub> Zn <sub>1-x</sub> S <sub>y</sub> Se <sub>1-y</sub> quaternary alloys with modified Becke–Johnson (mBJ) functional	Inter- national	Indian Journal of Physics [SPRINGER]		2020	DOI: https://d oi.org/10 .1007/s1 2648- 020- 01880-7	
Surya Chattopa dhyaya	Bimal Debnath, Debankita Ghosh, Manish Debbarma, Sayantika Chanda, Subhendu Das, Rahul Bhattacharjee, Surya Chattopadhyaya	Beryllium (Be) composition dependent structural and optoelectronic characteristics of wurtzite Be <sub>x</sub> Mg <sub>1-x</sub> S ternary alloys: First principle calculations with FP-LAPW scheme	Inter- national	Materials Chemistry and Physics [ELSEVIER]	258	2021	DOI: https://d oi.org/10 .1016/j. matche mphys.2 020.123 946	1239 46
Surya Chattopa dhyaya	Debankita Ghosh, Manish Debbarma, Sayantika Chanda, Bimal Debnath, Rahul Bhattacharjee, Subhendu Das, Surya Chattopadhyaya	Cationic and anionic composition-dependent mechanical and thermal properties of zincblende specimens under MgxZn1-xSySe1-yquaternary system: calculations with density functional FP-LAPW scheme	Inter- national	European Physical Journal B [SPRINGER]	94	2021	DOI: https://d oi.org/10 .1140/ep jb/s1005 1-020- 00024-4	1
Surya Chattopa dhyaya	Debankita Ghosh, Sayantika Chanda, Manish Debbarma, Bimal Debnath, Surya Chattopadhyaya	First-principles investigations of composition- dependent mechanical properties of zinc- blende constituents of Mg <sub>x</sub> Zn <sub>1-x</sub> S <sub>y</sub> Te <sub>1- y</sub> rectangular quaternary system	Inter- national	Indian Journal of Physics [SPRINGER]		2021	DOI: https://d oi.org/10 .1007/s1 2648- 021- 02013-4	

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		Calculations of						
Surya Chattopa dhyaya	Sayantika Chanda, Manish Debbarma, Debankita Ghosh, Subhendu Das, Bimal Debnath, Rahul Bhattacharjee, Surya Chattopadhyaya	selenium and cadmium concentration dependent elastic and thermal properties of zincblende specimens under Cd <sub>x</sub> Zn <sub>1</sub> -xSe <sub>y</sub> Te <sub>1-y</sub> quaternary system with density functional theory	Inter- national	Materials Today Communicat ions [ELSEVIER]	27	2021	DOI: https://d oi.org/10 .1016/j. mtcomm .2021.10 2136	1021 36
Surya Chattopa dhyaya	Debankita Ghosh, Manish Debbarma, Sayantika Chanda, Bimal Debnath, Subhendu Das, Rahul Bhattacharjee, Surya Chattopadhyaya	Structural and optoelectronic properties of cubic Zn <sub>1-x-y</sub> Be <sub>x</sub> Mg <sub>y</sub> Se quaternary alloys nearly lattice matched to GaAs substrate: A density functional investigation	Inter- national	Materials Science in Semiconduct or Processing [ELSEVIER]	130	2021	DOI: https://d oi.org/10 .1016/j. mssp.20 21.1058 03	1058 03
Surya Chattopa dhyaya	Debankita Ghosh, Sayantika Chanda, Manish Debbarma, Bimal Debnath, Surya Chattopadhyaya	Theoretical investigation of magnesium and selenium concentration dependent elastic properties of zinc blende specimens under the Mg <sub>x</sub> Zn <sub>1-x</sub> Se <sub>y</sub> Te <sub>1-y</sub> quaternary system with density functional FP-LAPW approach	Inter- national	Mechanics of Materials [ELSEVIER]	158	2021	DOI: https://d oi.org/10 .1016/j. mechma t.2021.1 03840	1038 40
Surya Chattopa dhyaya	Sayantika Chanda, Manish Debbarma, Debankita Ghosh, Bimal Debnath, Surya Chattopadhyaya	Composition dependence in mechanical properties of zinc- blende compounds associated with the Cd <sub>x</sub> Zn <sub>1-x</sub> S <sub>y</sub> Te <sub>1-y</sub> system: a density functional study	Inter- national	Bulletin of Materials Science [SPRINGER]	44	2021	DOI: https://d oi.org/10 .1007/s1 2034- 021- 02372-y	97
Surya Chattopa dhyaya	Sayantika Chanda, Manish Debbarma, Debankita Ghosh, Bimal Debnath, Surya Chattopadhyaya	First principle calculations of structural, elastic, electronic and optical properties of cubic Cd <sub>1-x-</sub> yZn <sub>x</sub> Hg <sub>y</sub> Te triangular quaternary alloys and their compounds	Inter- national	Physica B: Physics of Condensed Matter [ELSEVIER]	614	2021	DOI: https://d oi.org/10 .1016/j.p hysb.202 1.41299 9	4129 99

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Surya Chattopa dhyaya	Sayantika Chanda, Manish Debbarma, Debankita Ghosh, Bimal Debnath, Surya Chattopadhyaya	First-Principles Investigation of Structural, Elastic, Electronic and Optical Properties of Cd <sub>1-x-</sub> yZn <sub>x</sub> Hg <sub>y</sub> SQuaternary Alloys	Inter- national	Journal of Electronic Materials [SPRINGER]	50	2021	DOI: https://d oi.org/10 .1007/s1 1664- 021- 08986-6	4705
Surya Chattopa dhyaya	Sayantika Chanda, Surya Chattopadhyaya	Theoretical study of optoelectronic properties of hexagonal wurtzite CdxZn1-xO ternary alloys using modified Becke-Johnson (mBJ)-GGA functional	Inter- national	Materials Today: Proceedings [ELSEVIER]	46	2021	DOI: https://d oi.org/10 .1016/j. matpr.20 20.06.13	6392
Anirban Guha	K. Saha, and T. Banik	Indian summer monsoon variability over North-East India: Impact of ENSO and IOD	Inter- national	Journal of Atmospheric and Solar- Terrestrial Physics (Elsevier Science)	221 (15)	2021	https://d oi.org/10 .1016/j.j astp.202 1.10570 5	1057 05
Anirban Guha	Y. Liu, E. Williams, Z. Li , J. Lapierre and M. Stock	Lightning enhancement in moist convection with smoke-laden air advected from Australian wildfires	Inter- national	Geophysical Research Letters (American Geophysical Union)	48	2021	https://d oi.org/10 .1029/20 20GL092 355	e202 0GL0 9235 5
Anirban Guha	A. Patari, B. Paul	statistics of GPS TEC at the northern EIA crest region of the Indian subcontinent during the solar cycle 24 (2013- 2018): comparison with IRI-2016 and IRI-2012 models	Inter- national	Astrophysics and Space Science (Elsevier)	46	2021	https://d oi.org/10 .1007/s1 0509- 021- 03950-6	366
Anirban Guha	J. Kalita, M. K. Mishra	Martian Lee-wave cloud near Ascraeus Mons during Martian years 33 and 34: a study based on the Mars color camera (MCC) images	Inter- national	(Springer Science)		2021	https://d oi.org/10 .1007/s1 2648- 020- 01978-y	

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Anirban Guha	M. M. Gogoi, S. Babu, B. S. Arun, K. K. Moorthy, A. Ajay, P. Ajay, A. Suryavanshi, A. Borgohain, A. Shaikh, B. Pathak, B. Gharai, B. Ramasamy, G. Balakrishnaiah, H. B. Menon, J. C. Kuniyal, J. Krishnan, K. R. Gopal, M. Maheswari, M. Naja, P. Kaur, P. K. Bhuyan, P. Gupta, P. Singh, P. Srivastava, R. S. Singh, R. Kumar, S. Rastogi, S. S.	Response of ambient BC concentration across the Indian region to the nation-wide lockdown: results from the ARFINET measurements of ISRO-GBP	Inter- national	Current Science	120 (2)	2021	ISSN 0011- 3891	341- 351
	Kundu, S. K. Kompalli, S. Panda, T. C. Rao, T. Das and Y. Kant							
Anirban Guha	E. Williams, T. Bozóki, G. Sátori, C. Price, P. Steinbach, Y. Liu, C. D. Beggan, M. Neska, R. Boldi and M. Atkinson	Evolution of Global Lightning in the Transition From Cold to Warm Phase Preceding Two Super El Niño Events	Inter- national	Journal of Geophysical Research (Atmospher es) (American Geophysical Union)	126 (3)	2021	https://d oi.org/10 .1029/20 20JD033 526	pp. e202 0JD0 3352 6
Anirban Guha	E. Prácser, T. Bozóki, G. Sátori, J. Takátsy, E. Williams	Two Approaches for Modeling ELF Wave Propagation in the Earth-lonosphere Cavity with Day- Night Asymmetry	Inter- national	IEEE Transactions on Antennas and Propagation	69	2021	<b>DOI:</b> 10. 1109/TA P.2020.3 044669	409 3 - 4099
Anirban Guha	Swati, B.Singh, D. Pundhir, A. K.Sinha, K. MadhusudanRao, Y. Hobara	Ultra-low frequency (ULF) magnetic field emissions associated with some major earthquakes occurred in Indian Subcontinent	Inter- national	Journal of Atmospheric and Solar- Terrestrial Physics (Elsevier Science)	211	2020	https://d oi.org/10 .1016/j.j astp.202 0.10546 9	1054 69
Anirban Guha	P. Kaur, P. Dhar, B. K. De	Inter-Comparison of satellite retrieved Aerosol Optical Depth (AOD) from geostationary and polar-orbiting platforms with ground-based measurements over a Semi-continental site of northeastern India	National	URSI Regional Conference on Radio Science (URSI-RCRS)	1	2020	10.2391 9/URSIR CRS4921 1.2020.9 113426	1-4



Syed Arshad Hussain	S. Suklabaidya, S. Chakraborty, S. Sarkar, R. Paul, H. Banik, A. Chakraborty, D. Bhattacharjee, Debajyoti; S. Majumdar	Polydiacetylenes- Hexadecylimidazole Mixed Film and its Application towards Sensing of Volatile Organic Compounds (VOCs), Gasoline and Pollution Level in Car Exhaust	Inter- national	Journal of Physical Chemistry C (American Chemical Society)	125	2021	10.1021/ acs.jpcc. 1c04338	1597 6
Syed Arshad Hussain	Abhijit Pal; Bapi Dey; Sudip Suklabaidya; Swapan Majumdar	7-Alkoxy appended coumarin derivatives: Synthesis, photophysical properties, aggregation behaviours and current-voltage (I-V) characteristic studies on thin films	Inter- national	RSC Advances (Royal Society of Chemistry)	11	2021	10.1039/ D1RA007 62A	2
Syed Arshad Hussain	Surajit Sarkar, Hritinava Banik, Sudip Suklabaidya, Barnali Deb, Swapan Majumdar, Debajyoti Bhattacharjee and	Resistive switching of tetraindolyl derivative in ultrathin films: A potential candidate for non-volatile memory devices	Inter- national	Langmuir (American Chemical Society	15	2021	10.1021/ acs.lang muir.0c0 3629	4449
Debajyoti Bhattacha rjee	Mitu Saha, Nilima Biswas, S.A. Hussain	Micellar effect of CTAB on Phenol red sodium salt: A model system may be used for cell membrane study	Inter- national	Materials Today: Proceedings (Elsevier)	46	2021	10.1016/ j.matpr.2 020.10.1 008	6433
Syed Arshad Hussain	S. Suklabaidya, S. Chakraborty, J. Saha, B. Dey, S. Sarkar, D. Bhattacharjee	Study of polydiacetylenes and rhodamine-800 mixed film at airwater interface and onto solid support: Trace of fluorescence resonance energy transfer (FRET)	Inter- national	Polymer Bulletin (Springer	78	2021	10.1007/ s00289- 020- 03102-w	93
Ratan Das	Debojyoti Nath	Experimental (XRD) and theoretical (DFT) analysis for understanding the influence of SHI irradiation on the stacking fault energy in CdSe nanocrystals	Inter- national	Journal of Alloys and Compounds	879	2021	10.1016/ j.jallcom. 2021.16 0456	1604 56



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Ratan Das	Simi Debnath, Avisek Das	Effect of cobalt doping on structural parameters, cation distribution and magnetic properties of nickel ferrite nanocrystals	Inter- national	Ceramics internationa I	47	2021	10.1016 /j.cera mint.20 21.02.0 95	1646 7
Ratan Das	Debojyoti Nath	Surface and displacement damage engineering on CdSe nanocrystalline thin film by swift heavy Ag ions: A theoretical investigation by SRIM/TRIM package	Inter- national	Vacuum	190	2021	10.1016 /j.vacuu m.2021. 110293	1102 93
Ratan Das	Pijush Ch. Dey	Impact of silver doping on the crystalline size and intrinsic strain of MPA-capped CdTe nanocrystals: A study by Williamson-Hall method and size- strain plot method	Inter- national	Journal of Materials Engineering and Performanc e	30	2021	10.1007 /s11665 -020- 05358-9	652- 660
Ratan Das	Babli Debnath	Presence of fluoride in water diminishes fast the SPR peak of silver nanocrystals showing large red shift with quick sedimentation—A fast sensing and fast removal case	Inter- national	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	249	2021	10.1016 /j.saa.2 020.119 306	1193 06
Ratan Das	Pijush Ch. Dey, Birson Ingti, Amitabha Bhattacharjee, Manabendra D. Choudhury, Ratan Das, Siddhartha S. Nath	Enhancement of antibacterial activity of synthesized ligand-free CdS nanocrystals due to silver doping	Inter- national	Journal of Basic Micro- biology		2020	10.1002 /jobm.2 020002 96	1-10

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Ratan Das	Debojyoti Nath, Fouran Singh	Atomistic strain and structural analysis of 120 MeV Ni ions irradiated CdSe nanocrystals through molecular dynamics simulation method	Inter- national	Vacuum	182	2020	10.1016 /j.vacuu m.2020. 109794	1097 94
Ratan Das	Simi Debnath	Cobalt doping on nickel ferrite nanocrystals enhances the microstructural and magnetic properties: Shows a correlation between them	Inter- national	Journal of Alloys and Compounds	852	2020	10.1016 /j.jallco m.2020. 156884	1568 84.
Ratan Das	Pijush Ch. Dey, Sumit Sarkar	X-ray diffraction study of the elastic properties of jagged spherical CdS nanocrystals	Inter- national	Materials Science- Poland	38	2020	10.2478 /msp- 2020- 0032	271

3. Conference/ Seminar/ Workshops/ Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

Name	Teacher/Student/	Number of Confe	rence/ Seminar/	Workshop attended
Name	Research Scholar	International	National	Institution Level
Debankita Ghosh	Research Scholar	02	03	02
Sayantika Chanda	Research Scholar	02	06	03
Bimal Debnath	Research Scholar	01	04	02
Subhendu Das	Research Scholar	00	00	00
Utpal Sarkar	Research Scholar	01	02	01
Manish Debbarma	Research Scholar	06	03	02
Parminder Kaur	Research Scholar	02	06	01
Jyotirmoy Kalita	Research Scholar	04	01	01
Joydeb Saha	Research Scholar	02	01	01
Arup Patari	Research Scholar	00	02	00
Surajit Sarkar	Research Scholar	02	03	04
Sudip Suklabaidya	Research Scholar	01	02	04
Hritinava Banik	Research Scholar	02	03	04
Ripa Paul	Research Scholar	01	03	04
Dr. Ratan Das	Teacher	1	2	-
Simi Debnath	Research Scholar	03	05	-
Babli Debnath	Research Scholar	01	02	-
Debojyoti Nath	Research Scholar	06	03	-

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4. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/Universities	Title of Invited talk
Syed Arshad Hussain	Srinagar	April 7-11, 2021	International Conference on Nanotechnology for Better Living (NBL-2) (Keynote Lecture) Organized by NIT Srinagar, Jammu & Kashmir	Organo – clay hybrid films: promising candidate for optoelectronics applications
Syed Arshad Hussain	Assam	March 6, 2021	"National Science Day – 2021" celebration (Invited Talk) Organized by ADB College, Nagaon, Assam	Future of STI: Impacts on Education, Skills, and Work with introduction about Nanotechnology
Syed Arshad Hussain	Agartala	February 26, 2021	"National Science Day – 2021" celebration (Keynote lecture) Jointly by Women's College, Agartala & Tripura Council for Science and Technology, Govt. of Tripura	Future of STI: Impacts on Education, Skills, and Work
Syed Arshad Hussain	Silchar	November 16-17, 2020	"International Webinar on Nanoscience and Nanomaterials" organized by Department of Physics, Assam University, Silchar, Assam	Nano dimensional Clay minerals: the ideal host material to manipulate the properties of organic molecules
Syed Arshad Hussain	Kamalpur	September 19, 2020	"National Webinar on Recent Advances in Materials Science- 2020" organized by Department of Physics, Govt. Degree College Kamalpur, Tripura on	Introduction of Nanotechnology with a glimpse of future applications
Syed Arshad Hussain	Agartala	July 9-10, 2020	"International Web Conference on Advance Research in Science, Humanities and Social Science (IWCARSHSS 2020)" organized by MBB University, Tripura, India during 9-10 July, 2020	Organo-clay hybrid Films: Suitable for Optical memory, Switching & sensing applications
Dr. Ratan Das	Department of Chemistry, G C College, Silchar, Assam	10th September, 2020	G C College, Silchar, Assam  Two days National Webinar on Recent Development in the Characterization of Nanomaterials	Characterization of Nanomaterials by X-ray diffraction analysis
Dr. Ratan Das	Govt. Degree College, Dharmanagar, Tripura	12th August, 2020	Govt. Degree College,  Dharmanagr Tripura  X-ray Diffraction analys	
Dr. Ratan Das	Department of Physics, Tripura University	21-25th Sep., 2020	Tripura University AICTE (ATAL) FDP online	Sensing of different Toxic Chemicals in Water using Nanomaterials
Dr. Ratan Das	Department of Physics, S S College, Hailakandi, Assam	22-23 Feb, 2021	S S College, Hailakandi, Assam National Seminar on Recent Trends in Basic Science Researches in North East India	Nanoscience and Nanotechnology: A platform of multi-dimensional research opportunities and potential applications



Name	Title of Patent	Applied/ Granted	Patent No.	Date (Applied/ Granted) (DD/MM/YY)	Licensed or Not
Syed Arshad Hussain	A Process for Preparation of a Clay Mineral – Organic Hybrid	Applied	Australian Innovation Patent Reference No: 2021104639	27.07.2021	
Debajyoti Bhattacharjee	A Process for Preparation of a Clay Mineral – Organic Hybrid	Applied	Australian Innovation Patent Reference No: 2021104639	27.07.2021	

# 6. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of	Par time/	Doccoreh torrio	Name of Guide	Registered/Theses
Scholars	Full time	Research topic	Name of Guide	submitted/ Awarded
Mr. Manish Debbarma	Fulltime (CSIR-NET- SRF)	Density functional theory (DFT) based calculations of physical properties of some mercury (Hg) doped transition metal chalcogenide ternary alloys	Prof. Surya Chattopadhyaya	Registered
Mr. Utpal Sarkar	Part-time Fellow	Calculations of physical properties of some alkaline-earth element doped transition metal chalcogenide ternary alloys using density functional theory (DFT) based full-potential linearized augmented plane wave (FP-LAPW) methodology	Prof. Surya Chattopadhyaya	Registered
Ms. Debankita Ghosh	Fulltime (RET Fellow)	First principle based theoretical investigation of physical properties of some chalcogenide ternary and quaternary alloys containing alkaline-earth and transition metal elements	Prof. Surya Chattopadhyaya	Registered
Ms. Sayantika Chanda	Fulltime (DST- INSPIRE -SRF)	Theoretical investigation of physical properties of some chalcogenide ternary and quaternary alloys containing elements of transition metal group using density functional theory (DFT) based full-potential linearized augmented plane wave (FP-LAPW) approach	Prof. Surya Chattopadhyaya	Registered
Mr. Bimal Debnath	Fulltime (RET Fellow)	Density functional investigations on physical properties of some binary alkaline-earth chalcogenide compounds and their different types of ternary alloys	Prof. Surya Chattopadhyaya	Registered
Mr. Subhendu Das	Part-time Fellow	Theoretical condensed matter physics & materials science	Prof. Surya Chattopadhyaya	Course work completed& Registration in process
Parminder Kaur	Fulltime (JRF)	Atmospheric Science	Anirban Guha	Registered
Jyotirmoy Kalita	Fulltime (JRF)	Atmospheric Science	Anirban Guha	Registered
Joydeb Saha	Fulltime (RA)	Atmospheric Science	Anirban Guha	Registered
Arup Patari	Part-time Fellow	Atmospheric Science	Anirban Guha	Registered
Surajit Sarkar	Fulltime (RET Fellow)	Supramolecular assembly with unique chromatic properties	Syed Arshad Hussain	Registered
Sudip Suklabaidya	Fulltime (RET Fellow)	Investigations of Polydiacetylenes Assembled onto Langmuir and Langmuir-Blodgett Films	Syed Arshad Hussain	Registered



Hritinava Banik	Fulltime (RET	Study of resistive switching for transient and	Syed Arshad	Course work
Tittelliava Ballik	Fellow)	biodegradable memory applications	Hussain	completed
Ripa Pal	Fulltime (RET Fellow)	Study of biomembrane	Syed Arshad Hussain	Course work completed
Dr. Pijush Ch Dey	Full time	Synthesis of a few pure and doped group II-VI Semiconductor Nanocrystals by Chemical Route for the Study of their Optical and Elastic Properties and Their Applications	tor Nanocrystals by Chemical tudy of their Optical and Elastic Dr. Ratan Das	
Simi Debnath	Full time	SYNTHESIS OF A FEW METAL DOPED SPINEL FERRITE NANOCRYSTALS FOR THE STUDY OF THEIR STRUCTURAL, OPTICAL AND MAGNETIC PROPERTIES ALONG WITH SUITABLE APPLICATIONS	Dr. Ratan Das	Registered
Babli Debnath	Full time	SENSING, DEGRADATION, REMOVAL OF TOXIC CHEMICALS FROM WATER, USING SYNTHESIZED SILVER NANOPARTICLES, ALONG WITH A FEW BIOLOGICAL APPLICATIONS	Dr. Ratan Das	Registered
Debojyoti Nath	Full time	Swift heavy ions irradiation on CdSe & CdS nanocrystals for the study of phase transformation and microstructural modifications, along with their optical properties	Dr. Ratan Das	Registered
Ms. Sanghita Basak	Full time	Semiconductor nanoparticles and properties study	Dr. Ratan Das	Course work completed& Registration in process

## 7. Outreach Footprint of the Department:

# 7.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

SI. No.	Date	Duration	Title	Refresher / Orientation Courses / Seminar/ Conference/ Workshops/ Symposia Lecture/ Talk	International/ National	No. of Participants
1	22.12.2021	1 day	Webinar on "Voyage through space and time: study of elementary events at small scales" organized by Department of Physics, Tripura University	Distinguished Lecture	National	98
2	21-25, Sept., 2020.	5 days	AICTE Training And Learning (ATAL) Academy Faculty Development Program (FDP) on Sensor Technology organized by Department of Physics, Tripura University	Faculty Development Program	National	78

### 7.2 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Anirban Guha	American Geophysical Union (AGU), USA	Life Member
Anirban Guha	National Postdoctoral Association, USA	Member
Anirban Guha	Physics Academy of North East (PANE)	Life Member

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Anirban Guha	South Asian Lightning Network (SALNet), Nepal	Member
Syed Arshad Hussain	Syed Arshad Hussain American Nano Society (ANS)	
Syed Arshad Hussain	Syed Arshad Hussain American Institute of Physics (AIP)	
Syed Arshad Hussain	IndianNationalScienceAcademy	Life Member
Syed Arshad Hussain	Material Research Society of India (MRSI)	Life Member
Syed Arshad Hussain	Indian Physics Association (IPA)	Life Member
Syed Arshad Hussain	Physics Academy of North East (PANE)	Life Member

#### 7.3 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Location	Duration	Date
Refresher Course	Refresher Course in Physical Sciences and Nano Sciences (Online)	HRDC, JNU, New Delhi (Online)	14 days	16-11-2020 to 28-11-2020
Refresher Course	Two weeks Faculty Development program on "Managing online classes and co-creating MOOCS 3.0"(online)	Teaching Learning Center, Ramanujan College, University of Delhi, Delhi(Online)	15 days	25-07-2020 to 10-08-2020
Faculty Development Program	ATAL Faculty Development program on "Photonics" (online)	C. V. Raman Global University, Odisha(Online)	5 Days	28/09/2020 to 02/10/2020
Faculty Development Program	ATAL Faculty Development program on "Recent Trends in Green Technology for Clean Energy Production" (online)	Department of Chemical Engineering, MNIT Jaipur & Institution's Innovation Council, MNIT Jaipur (Online)	5 Days	Jan. 4, 2021 to Jan. 8, 2021
Faculty Development Program	UGC (Paramarsh) online FDP on "ICT in Teaching and Evaluation"	MSP Mandal's Shri Shivaji College, Parbhani, Maharashtra (Online)	6 days	13/07/2020 to 18/07/2020
Faculty Development Program	Online FDP on "Communication skills and Use of ICT Tools for Effective Teaching, Learning and Evaluation"_	IQAC Government First Grade College and PG Centre, Dharwad, Karnataka (Online)	7 days	22-06-2020 to 28-06-2020
Refresher Course	Making Teaching Effective	Faculty Development Centre, Tripura University	5 days	15-20th March, 2021

#### 8. Major thrust area of research:

**Theoretical Condensed Matter Physics &Materials Science**: Faculty Member involved in this group: Prof. Surya Chattopadhyaya

#### Research Interest:

Theoretical condensed matter physics, Theoretical materials science

Simulation of various compounds, alloys, composites, films & layers and study of their different properties with proper applications.

Atmospheric Science: Faculty member involved in this group: Dr. A. Guha

#### Research interest:

Lightning and its effects on terrestrial environment, its relation with long term climate change Coupling mechanism between upper atmosphere (magnetosphere and ionosphere) and troposphere and its relation with space environment, Atmospheric aerosol radiative forcing on



synoptic scale, Precursory signature of earthquakes through electromagnetic channel. Martian clouds, dust storm and climatological study over the major volcanos and liquid flow channel.

#### **Nanoscience and Nanotechnology**

9. Major Instruments available in the Department:

#### **Instruments in Atmospheric Science laboratory:**

VLF/LF Receivers, Atmospheric Electric Field Monitor (BOLTEK EFM – 100), Three Component Magnetometer (LEMI 30 and 423), World Wide Lightning Location Network, GPS-Total Electron Content (GPS TEC), MICROTOPS II Sunphotometer, Aethalometer (Model AE31), Net Radiometer (Model no. CNR4 V1007), Automatic Weather Station (AWS, Model no. DCPAWSO2), Softpal VLF receiver.

#### **Instruments for Thin Film Preparation:**

Fluorescence Imaging Microscope attached with Langmuir-Blodgett film deposition instrument (Apex Instruments, India)

Langmuir-Blodgett film deposition instrument (Apex Instruments, India)

Automatic computer controlled Dip coater (Apex Instruments, India)

Programmable Spin Coater (Apex Instruments, India)

Vacuum deposition unit (HindHiVac)

Fluorescence spectrophotometer (Perkin Elmer)

UV-Vis absorption spectrophotometer (Perkin Elmer)

UV-Vis absorption spectrophotometer (Shimadzu)

FTIR Spectrophotometer (Perkin Elmer)

Millipore water purification system (Millipore)

Keithley source meters (constant current source, nano- voltmeter, I-V source meter)

TGA/DT analyzer

Duetta Fluorescence and Absorbance Spectrometer

#### **Instruments in Nano Science and Nano Technology laboratory:**

i. Fluorescence Spectrometer

ii. TGA/DTA Instrument

iii. Impedance Analyzer

iv. Source meter

v. Furnace

vi. Vacuum Oven

#### 10. On-going Research Projects in 2020-21:

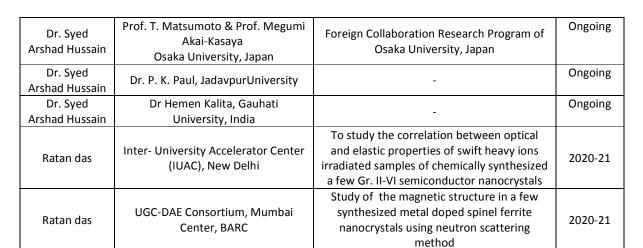
Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Dr. Anirban Guha		Department of Space, Govt. of India	Aerosol Radiative forcing over India	120 lakhs	20 lakhs	9 years
Dr. Anirban Guha		UGC	What role do tropical thunderstorms play in driving the upper tropospheric water vapor feedback?	150 lakhs	16 lakhs	3 years

2020-2021	

1						1
			Thermal Analysis of			
			a few synthesized			
			magnetic and non			
		DST-SERB	magnetic metal			
Dr. Ratan			doped spinel ferrite	54.61 Lakhs	Nil	03 years
Das			nanocrystals by	54.01 Lakii5	1411	os years
			TGA/DTA and their			
			subsequent			
			structural, optical			
			and electrical study			
			Study of the energy			
Dr. Ratan Das		transfer between				
		fluorescent and			03 years	
	DST-SERB	synthesized a few	28.73 lakhs	NII		
	DST SERB	noble metal	20.73 141113			
		nanoparticles of				
			different size and			
			shape			
			To study the			
			correlation		1.32 lakhs	03 years
			between optical			
			and elastic			
			properties of swift			
Dr. Ratan	Dr.Fouran	IUAC, New	heavy ions	5.79 lakhs		
Das	Singh	Delhi	irradiated samples	3.79 lakiis		
			of chemically			
			synthesized a few			
			Gr. II-VI			
			semiconductor			
			nanocrystals			
			Study of the			
	Dr. S M		magnetic structure			
	Yusuf, Dr.	UGC-DAE	in a few			
Dr. Ratan	Debasish	Consortium,	synthesized metal	1.35 lakhs	0.45 lakhs	03 years
Das	Sen, and	Mumbai	doped spinel ferrite	T.33 Iakii3	0.43 Iakiis	US years
	Dr. VK	Center	nanocrystals using			
	Aswal		neutron scattering			
			method			

# ${\bf 11.}\ Collaborative\ Research\ with\ Other\ Universities\ /\ Institutes\ /\ Industry\ during\ 2020-21$

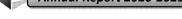
Name of	Name of other Universities /	Collaboration on Project	Year
Teacher	Institutes / Industry		(2020-21)
Dr. Anirban Guha	Tel Aviv University, Israel	Climate Change	2020-21
Dr. Anirban Guha	MIT, USA	Climate Change	2020-21
Dr. Syed	Prof. Jun Kawamata, Yamaguchi	Cooperative Science Program of Yamaguchi	Ongoing
Arshad Hussain	University, Japan	University, Japan	



# 12. Awards/Medals/Honours# (State/National/International level) received by the students during the academic year 2020-21:

Name of	Name of	Date of	Awarding	Remarks
Students	Awards/Medals/Honours	Awards/Medals/Honours	Agency/Institution	Kelliarks
Jyotirmoy Kalita	Young Scientist Award	30.04.2021	International Union	URSI-GASS-2021,
Jyotii iiioy Kaiita	Toung Scientist Award	30.04.2021	of Radio Science	Rome, Italy

<sup>#</sup> In case of sports, inter university, zonal may also be considered.



# DEPARTMENT OF STATISTICS

Head of the Department : Dr. Prasenjit Sinha

Year of Establishment : 2011

Programmes on offer : M.Sc , Ph.D. Intake capacity : M.Sc (18)

#### Major achievements/ Vision of the Department:

The department has started its journey on 2011 offering M.Sc. and Ph.D. from academic session 2012-13. The Integrated Master Degree (IMD) is now offered by the department. During this nine years, we have organized regional workshop and two North-East Programmes (Sponsored by Indian Statistical Institute). Student and research scholars of the department also participated several North East Programmes (Sponsored by Indian Statistical Institute) in other states. Two students have already qualified NET/SET.

#### 1. Faculty Members:

,					Teaching/		h.D dance	The	ster esis ance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Te Research/job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Prasenjit Sinha	Ph.D.	Assistant Professor & HOD (I/C)	Full Time	Demography	10	-	02	07	05	08	01
Samrat Hore	M.Sc	Assistant Professor	Full Time	Optimal Design	09	1	-	09	04	47	03

<sup>\*</sup>Must be mentioned

- 2. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ referred only:
  - 2.1 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ Inter- national	Name of the Journal/ Proceedings/ Magazine	Volu me	Year (2020 -21)	ISSN/ ISBN/ DOI	Page No.
Renu Bala	Prasenjit Sinha, A. Srivastava, A.K.Srivastava, A. Mishra, R. Shamim	Anxiety, obsession and fear from coronavirus in Indian population: a webbased study using COVID-19 specific scales	Inter- national	International Journal of Community Medicine and Public Health	7 (11)	2020	2394- 6040	4570- 4577
Amit Srivastava	Prasenjit Sinha, A. Srivastava, A.K.Srivastava, A. Mishra, R.Shamim	KNOWLEDGE, ATTITUDE, PRACTICE, AND PERCEPTION TOWARDS COVID-19 IN NORTH EASTERN STATES OF INDIA: AN ONLINE CROSS SECTIONAL STUDY	Inter- national	Asian Journal of Pharmaceutical and Clinical Research	13 (12)	2020	2455- 3891	165- 172

3. Conference/ Seminar/ Workshops/Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/Agencies other than Tripura University without publications of full paper:

Name Teacher/Student/Research Scholar		Number of Confere	nce/ Seminar/ Wo	orkshop attended
Ivallie	reacher/Student/Nesearch Scholar	International	National	Institution Level
Bimal Shil	Research Scholar	02	01	-
Jayanta Datta	Research Scholar	01	03	-

4. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of Scholars	Part time/ Full time	Research topic	Name of Guide	Registered/ Theses submitted/ Awarded
Bimal Shil	Full Time	Studies on Almost Sure Convergence and Probability Theory	Prasenjit Sinha	Registered
Jayanta Datta	Part Time	Errors in Age Reporting in Census Data : Measure and Remedy	Prasenjit Sinha	Registered

- 5. Outreach Footprint of the Department:
  - 5.1 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Dr. Prasenjit Sinha	Association of Population Geographers of India (APGI)	Life Member
Jayanta Datta	Association of Population Geographers of India (APGI)	Life Member

#### 5.2 Orientation/ Refresher/ Faculty Development Courses attended by Faculty members:

Name	Course attended	Course attended Location		Date
Dr. Prasenjit	07 Days blended Online	Online Mode (Organized by	07 days	06-10-2020 to
Sinha	Training Program on Moodle	Department of Statistics, NEHU)	07 days	12-10-2020
07 Days blended Online		Online Mode (Organized by	07 days	06-10-2020 to
Samrat Hore	Training Program on Moodle	Department of Statistics, NEHU)	07 days	12-10-2020

6. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B) (Build up with Project Funding)
01	01	-

7. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Dr. Saptarshi Mitra	Samrat Hore	DST	Identification, Assessment and Model Building of Urban Morphology using Geospatial Techniques: A Study of Border City Agartala, Tripura.	20.39972	13.78036	02 Years



#### **DEPARTMENT OF ZOOLOGY**

Head of the Department : Prof. Sukanta Banik

Year of Establishment : 1987 (in the name of Department of Life Science)

Programmes on offer : MSc, PhD

Intake capacity : 30 Seats in MSc, Seats in the PhD programme depends upon the

vacancy

#### Major achievements/ Vision of the Department:

The Department has achieved the following milestone in research and development:

1. Standardised and developed Successful induced breeding Technology on Ompok bimaculatus as well as Chitala chitala fish.

2. Neuroendocrine regulation of regeneration in earthworm.

3. Melatonin receptors interaction in thyroid hormonogenesis and immune function was established.

#### 1. Faculty Members:

			Guest/	e	of b	Ph Guid		The	ster esis ance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Gu Contract	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Prof S Banik	PhD	Professor	Fulltime	Aquaculture/ Environmental Biology	31 years	01	03	-	-	382	7
Dr. Priyasankar Chaudhuri	Ph.D.	Professor	Full time	Earthworm Biology, Ecology and Vermicomposting	11 Years in Tripura University & 27 years in Govt Degree College	02	02	-	-	946	17
Dr. Shiv Shankar Singh	Ph.D.	Assistant Professor	Fulltime	Endocrinology	11.5yrs/17yrs	nil	03	-	-	307	11

### 2. Visiting Teacher/ Visiting Fellow:

Name	Topics of courses/lectures taught in	Institution affiliated with now/previously (if
Name	Tripura University	retired)
Prof D K Sharma	Biochemistry & Molecular Biology	University of Science & Technology, Meghalaya
Prof A Kaviraj (Retd)	Aquaculture/Fish Technology	Ex-Head & Prof, Dept of Zoology,
PIOI A Raviraj (Retu)		University of Kalyani
Prof C R Sahu	Cell Biology	Ex-Head & Prof, Dept of Zoology,
Proi C R Sallu		University of Kalyani
Dr Sujoy Ghosh	Genetics	University of Calcutta

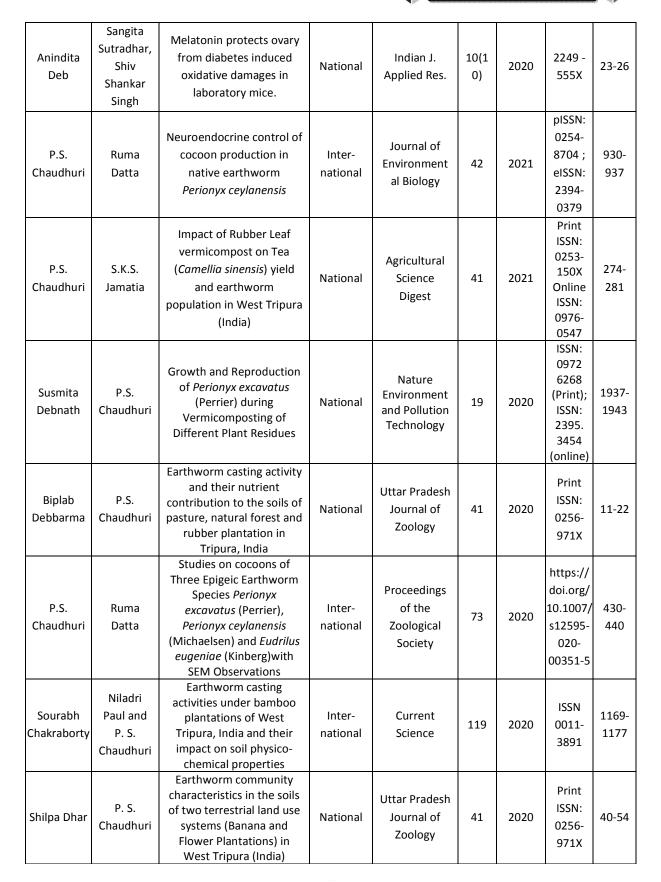
- 4
- 3. Details of Publications reported in Web of Science, Scopus, Google Scholar, Indian Citation Index and UGC approved/ Peer reviewed/ Referred only:
  - 3.1 Book Chapters:

Main Author	Co- Authors	Title of the Chapter	Book Editors	Name of the Book	Local/ National/ Inter- national	Publish ers	Year (2020- 21)	ISBN	Page No.
P.S. Chaudhuri	Susmita Debnath	Growth and Reproductive Biology of Earthworms in Organic Waste Breakdown Under the Indian Conditions	Sartaj Ahmad Bhat, Adarsh Pal Vig, Fusheng Li and Balasubrama ni Ravindran	Earthworm Assisted Remediation of Effluents and Wastes	Inter- national	Springe r	2020	978- 981- 15- 4522 -1	179- 193
Susmita Debnath	P.S. Chaudhuri	Management of Invasive Weeds and leaf litter through Vermicompost ing (Perionyx excavatus)	Tilak Saha and Bipransh Kumar Tiwary	Recent trends in Biotechnolog y: Microbes, Environment and Human Welfare	Inter- national	NOVA Publish ers, New York	2020	978- 1- 5361 7- 945- 3	297- 314

### 3.2 Full papers published in Journals/Proceedings of Conference/ Seminar/ Symposium etc.:

Main Author	Co- Authors	Title	Local/ National/ Inter- national	Name of the Journal/Proce edings/ Magazine	Volu me	Year (2020- 21)	ISSN/ ISBN/ DOI	Page No.
S Banik	D Das	New reports of the catfish Sperata seenghala (Sykes, 1839) from Gomati River of Tripura, India	Inter- national	Egyptian Journal of Aquatic Biology & Fisheries	25 (4)	2021	ISSN 1110 - 6131	201- 209
Prashanjit Laskar	Shiv Shankar Singh	Receptor mediated action of melatonin in pituitary - thyroid axis of lipopolysaccharide challenged mice.	Inter- national	Annals Thyroid Res.	6(2)	2020	26900 165	263- 269
Prashanjit Laskar	Shiv Shankar Singh	Receptor mediated counteraction of melatonin in splenocytic proliferation of lipopolysaccharide challenged mice.	National	Int. J. Life Sci.	8(3)	2020	2320- 7817	563- 569
Prashanjit Laskar	Shiv Shankar Singh	Receptor mediated effect of melatonin in pituitary regulated thyroid secretions of hyperthyroid mice.	National	J. Health Sci. Res.	5(2)	2020	2456- 2688	1-7

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	P. S.	Cytomorphological						
Dipanwita Banik	P. S. Chaudhuri and Anurag Bhatta- charjee	cytomorphological changes in the cerebral and ventral ganglionic neurosecretory cells during copulation in epigeic earthworms	Inter- national	European Journal of Biological Research	10	2020	ISSN: 2449- 8955	207- 2016
Ruma Datta	P. S. Chaudhuri	Vermiculture of Native Earthworm <i>Perionyx</i> ceylanensis in different experimental diets	National	Uttar Pradesh Journal of Zoology	41	2020	Print ISSN: 0256- 971X	116- 122
Anurag Bhatta- charjee	P. S. Chaudhuri	Effects of posterior amputation on the cerebral neurosecretory cells of Indian earthworm, Lampito mauritii (Kinberg)	Inter- national	Neurology and Neuroscience Reports	3	2020	ISSN: 2631- 4010	1-4
P. S. Chaudhuri	Susmita Debnath	Physico-chemical changes during vermicomposting of a terrestrial weed, Mikania micrantha and leaf litters of Acacia auriculiformis and Bambusa polymorpha mixed with cowdung	Inter- national	Journal of Environment al Biology	41	2020	pISSN: 0254- 8704; eISSN: 2394- 0379	178- 185
Anurag Bhatta- charjee	P. S. Chaudhuri	Effects of dehydration and subsequent hydration stress on the cerebral neurosecretory cells of Eudrilus eugeniae (Kinberg,1867)	National	GSC Biological and Pharmaceutic al Sciences	11	2020	ISSN: 2581- 3250	53-60
Susmita Debnath	P. S. Chaudhuri	Cocoon Biology of Earthworms of Waste Deposit sites of Tripura (India)	National	Uttar Pradesh Journal of Zoology	41	2020	Print ISSN: 0256- 971X	32-46
Shilpa Dhar	P. S. Chaudhuri	Earthworm Communities in Paddy ( <i>Oryza</i> <i>sativa</i> ) Fields of West Tripura (India)	Inter- national	Proceedings of the Zoological Society	73	2020	https: //doi. org/1 0.100 7/s12 595- 019- 00313 -6	273- 284

4. Conference/ Seminar/ Workshops/Summer-Winter schools attended by Teacher/ Students/ Research Scholars of the Dept. organized by Institutions/ Agencies other than Tripura University without publications of full paper:

	Teacher/	Number of Conference/ Seminar/ Workshop attended			
Name	Student/ Research Scholar	International	National	Institution Level	
Prof S Banik	Teacher	04	07	01	
Dr. Shiv Shankar Singh	Teacher	01	Nil	01	
10 <sup>th</sup> Edition of the University Distinguished Lecture (UDL) Series, Organized by SRM University, Andhra Pradesh on "Higher Education in India in Post-COVID-19", 5 <sup>th</sup> June, 2021	Teacher	Nil	1	01	

5. Invited Talks Delivered by Faculty/ Guest Faculty in any Colloquium/ Seminar/ Workshop/ Summer or Winter School etc.:

Name	Place	Date	Institutions/ Universities	Title of Invited talk
Prof S Banik	In On-line Google Meet at ACTREC, Mumbai	12 March 2021	ACTREC, Mumbai	How to improve Science education and Research for discovery and Innovation
Prof S Banik	In On-line Google Meet in Dept of Zoology	5th June 2021	Tripura University	How Can We Conserve Ecosystem
Dr. Shiv Shankar Singh	Agartala	10.07.2020	MBB University	Hormones: The Humoral Signals
Prof. P.S. Chaudhuri	Faculty Development Centre, Tripura University	18 <sup>th</sup> March, 2021	Tripura University	Earthworm Technology: A Tool for Sustainable Agriculture, Biodiversity conservation and Pollution Abatement

6. Ph.D. Scholars registered (started course work)/Theses submitted/ awarded (issued provisional certificate) during the academic year2020-21:

Name of Scholars	Par time/ Full time	Research topic	Name of Guide	Registered/ Theses submitted/ Awarded
Parbati Dasgupta	Part time	Reproductive Biology of <i>Wallago attu</i> of Feni river of Tripura, India	Prof S Banik	Registered
Subhrata Sarma	Full time	Efficacy of quercetin and melatonin in the modulation of immune function in diabetic mice.	Dr. Shiv Shankar Singh	Registered
Susmita Debnath	Full time	Inventory of earthworm resource in the waste deposit sites and their utilization in vermicomposting technology	Prof. P.S. Chaudhuri	Awarded
Shilpa Dhar	Full time	Ecology of earthworms in the soils of three agro-ecosystems in West Tripura	Prof. P.S. Chaudhuri	Awarded

### 7. Outreach Footprint of the Department:

7.1 Refresher / Orientation Courses / Seminar/ Conference/Workshops/Symposia Lecture/ Talk organized by the Department:

				Refresher /		
SI. No.	Date	Durat ion	Title	Orientation Courses / Seminar/ Conference/ Workshops/ Symposia Lecture/ Talk	Inter- national/ National	No. of Participants
1.	25 <sup>th</sup> Septemb er, 2020	1:30 Hrs	Webinar on Aquaculture/ Fisheries Entitled "Biofloc Technology for Effluent Management and Sustainability in Aquaculture"	Lecture	National	54
2.	5 <sup>th</sup> October, 2020	1:00 Hr	Webinar on "Structural Biology and Bioinformatics in Translational Research"	Lecture	National	66
3.	16 <sup>th</sup> October, 2020	1:30 Hrs	Webinar on "Fish Cell Line: Development, Characterization and Applications"	Lecture	National	55
4.	2 <sup>nd</sup> Novemb er, 2020	1:30 Hrs	Webinar on Distinguished Lecture entitled "Gene editing - Nobel recognition for CRISPR"	Lecture	National	86
5.	17 <sup>th</sup> Novemb er, 2020	1:30 Hrs	Webinar on Distinguished Lecture Entitled "Blue Revolution in India"	Lecture	National	62
6.	25 <sup>th</sup> Novemb er, 2020	1:20 Hrs	Webinar on Distinguished Lecture entitled "DNA Barcoding: Concept & Applications"	Lecture	National	68
7.	21 <sup>st</sup> Decembe r, 2020	1:35 Hrs	Webinar on Distinguished Lecture entitled "Interpretation and Presentation of Environmental and Toxicological Data"	Lecture	Inter- national	75
8.	4 <sup>th</sup> January, 2021	1:45 Hrs	International Webinar on Distinguished Lecture entitled "Molecular Evolution through the lens of neutral evolution and natural selection"	Lecture	Inter- national	82
9.	15 <sup>th</sup> January, 2021	1:30 Hrs	Webinar on "Biology and Ecology of Sperata aor of Rudrasagar Wetland of Tripura, India"	Lecture	National	55
10.	1st February 2021	1.3 hrs	International Wetland Day	Lecture	Inter- national	56
11.	5 <sup>th</sup> June 2021	1.3 hrs	How Can We Conserve Ecosystem	Lecture	Inter- national	42

#### 7.2 Interaction with Industry/ NGO/ Govt. Organization: (For Faculties)

SI. No.	Faculty Names	Name of Industry/ NGO	Location of Industry	MOU Signed? (Yes/No)	Any Grant Received? (If yes value in Lakhs)	Student Placed? (If yes, Specify Number)
1.	Prof. P.S. Chaudhuri	Adarini Vermi- compost and Research Centre	Bhati fatikchera, Mohanpur, West Tripura	No	No	No

#### 7.3 Membership in Professional/ Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Prof S Banik	World Rotifer Society, Minnesota, USA Indian Science Congress Association, Kolkata Asian Fisheries Society, Philippines Asian Fisheries Society, Indian Branch, Cochin Zoological Society, Kolkata Freshwater Biodiversity Society, Lucknow Bihar Biological Society, Bihar Inland Fisheries Society, Barrackpore Bongiyo Bigyan Parishad, Kolkata Indian Science News Association, Kolkata	Life Member Life Member Member Member Life Member & Fellow Life Member Life Member Life Member Life Member Member Member Member
Dr. S. S. Singh	Indian Society for Chronobiology	Executive Committee Member
Dr. S. S. Singh	Indian Society for Comparative Endocrinology	Life Member
Dr. S. S. Singh	Society for Reproductive Biology and Comparative Endocrinology	Life Member
Prof. P.S. Chaudhuri	National Institute of Ecology, JNU, N.Delhi	Fellow
Prof. P.S. Chaudhuri	Zoological Society, Kolkata	Life Member, and Fellow
Prof. P.S. Chaudhuri	Indian Society of Soil Biology & Ecology, Bangalore	Life Member
Prof. P.S. Chaudhuri	National Environmentalists Association	Life Member
Prof. P.S. Chaudhuri	Society of Applied Sciences, India	Life Member,Fellow
Prof. P.S. Chaudhuri	Society for Earthworm Ecology and Environmental Research (SEEER)	Life Member
Prof. P.S. Chaudhuri	International Society for Tropical Ecology, BHU, Varanasi	Member
Prof. P.S. Chaudhuri	Tripura Biodiversity Board	Member
Prof. P.S. Chaudhuri	Tripura Biotechnology Council	Executive member

#### 8. Major thrust areas of research:

Conservation of Endangered, Threatened & Rare Fish species of Tripura Conservation of Wetland Environment of Tripura

Hormone interaction and immune modulation.

Earthworm diversity and vermicomposting technology. Priyasankar Chaudhuri. (10-11-2021)

#### 9. New initiatives/Innovations:

Department of Zoology, T.U. initiated Opening of Project work of 04 Credit for the students of MSc Zoology 2nd Semester 2020-2021. As a result, the students of 2nd sem extended interest on *How to proceed to do research studies for furture programme*. This is a great academic achievent of the Dept of Zoology.

#### 10. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B)		
Total No. of Eas (A. S)	No. or reaching Edd (N)	(Build up with Project Funding)		
07	02	05		

#### 11. Major Instruments available in the Department:

- a) Trinocular microscope
- b) Binocular microscope
- c) Spectrophotometer

#### 12. On-going Research Projects in 2020-21:

Principal Investigator	Co- Investigator	Funding Agency	Title of the project	Total Grant (Rs. in Lakhs)	Grant received during the year (Rs. in Lakhs)	Tenure (In years and months)
Prof. P.S. Chaudhuri	-	DBT	Survey on earthworm resource in organic wastes, forests, agroecosystems and their role in waste management and nutrient dynamics in Northeast India (Tripura, Nagaland) and Uttarakhand	Rs. 19,41,000.00	-	3 Years (2018 - 2021)

# 13. Awards/Medals/Honours#(State/National/International level) received by the Teachers during the academic year 2020-21:

Name of	Name of	Date of Awards/	Awarding	Remarks	
Teacher	Awards/Medals/Honours	Medals/ Honours	Agency/Institution	Neillalks	
Prof. P.S.	Fellow	2021	National Institute of	elected fellow for	
Chaudhuri	reliow	2021	Ecology	the year 2020-21	

<sup>#</sup> In case of sports, inter university, zonal may also be considered.

#### 14. Collaborative Research with Other Universities / Institutes / Industry during 2020-21

Name of	Name of other Universities	Collaboration on Project	Year
Teacher	/ Institutes / Industry	Collaboration on Project	(2020-21)
		DBT sponsored project entitled "Survey on	
Prof. P.S.	Nagaland University and	earthworm resource in organic wastes, forests,	2018 -
Chaudhuri	Nagaland University and Kumaun University	agro-ecosystems and their role in waste	2018 -
Chaudhun	Kumaun Oniversity	management and nutrient dynamics in Northeast	2021
		India (Tripura, Nagaland) and Uttarakhand"	

# 15. Students qualified in various public examinations in the Academic year2020-21 from the Department:

Name	Sex (M/F)	Category (GEN/ ST/SC/ OBC/EWS/MIN)	PH (Yes /No)	Name of the Organization/Institution	Name of the Examination (NET/SLET/GATE/CAT/SSC/ UPSC/TPSC/Others/SWT*/SWO**		
Suman Koirala	М	OBC	NO	Tripura University	NET - 2020		
Nimbal Kalita	М	GEN	NO	Tripura University	NE-SET - 2021		
Sanjana Acharjee	F	GEN	NO	Tripura University	NE-SET - 2021		

<sup>\*</sup>Students Opting for Higher Studies With Examination;\*\*Students Opting for Higher Studies Without Examination.

# 16. Awards/Medals/Honours<sup>#</sup> (State/National/International level) received by the students during the academic year 2020-21:

Name of	Name of Awards/	Date of Awards/	Awarding Agency/	Remarks
Students	Medals/ Honours	Medals/ Honours	Institution	
Naina Kalita & Himadri Nath	Topper in Poster presentation	On the eve of International Wetland Day	Department of Zoology, Tripura University	Panel of Judges:  1. Prof G P Prasain,     Vice-Chancellor,     Tripura University  2. Dr D Sharma     Registrar,     Tripura University  3. Prof B B Jana     Kalyani

<sup>#</sup> In case of sports, inter university, zonal may also be considered.

#### SKILL DEVELOPMENT

#### **B. VOC RUBBER TECHNOLOGY**

Head of the Department : Prof. R. K. Nath

Year of Establishment : 2015

Programmes on offer : Bachelor in Vocational Rubber Technology

Intake capacity : 50

#### Major achievements/ Vision of the Department:

The B. Voc Rubber Technology program has been launched by Tripura University in 2015. It is approved by UGC and equivalent to any three years Bachelor Degree Course. The course has been started in collaboration with National Skill Development Council (NSDC) and Rubber Skill Development Council (RSDC). It is designed to impart hands-on training to students starting from latex collection, preservation, rubber sheet preparation to the testing of latex, rubbers, and chemicals related to rubber industry. The course emphasizes on both theoretical and practical aspects of rubber technology. The primary objective of the course is to prepare skilled personnel by providing them with the desired level of competencies required to get an entry into rubber and related industries and encourage them to become entrepreneur. The course is very flexible, where students can opt out of the course after completion of one year of joining, with a certificate "Diploma in Rubber Technology". Those who opt out after completing two years will be awarded with an "Advanced Diploma in Rubber Technology" and after the completion of three years, the students would be awarded with "B. Voc in Rubber Technology". The course is meant for 10+2 students with science background. The complete course in B. Voc Rubber Technology is of six semesters. There is 100% placement of first batches of students and third batch has been sent to Aristo-Texcon in Agartala for end Semester Industrial Project. Tripura University has signed MoU with different Industries and Institutes for students training and placement. MoUs have been signed with NSDC, RSDC, Rubber Board and AIRIA. Moreover, students can opt for higher studies (M. Sc) in Rubber and Polymer Science & technology and in allied branches like, Materials Science, Paints, Adhesive Technology and Nano Technology after completion of bachelor degree in B. Voc Rubber Technology. JIS University, Kolkata has included B. Voc Rubber Technology degree as one of the eligible criteria for admission in M. Sc Polymer Science Course and MoU with JIS University, Kolkata is under process.

#### 1. Faculty Members:

					Teaching/ experience		i.D ance	The	ster esis ance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract*	Research area	No. of years of Tea Research/ job exp	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Bishnu Prasad Koiry	M. Tech, Ph.D. Rubber Technology	Assistant Professor	Contract	Polymer synthesis, self-cleaning and anti-fouling coatings, polymer composites	06	NIL	NIL	NIL	NIL	231	07



Dr. Joy Das	Ph.D	Assistant Professor	Guest	Accounting & Finance	07	NIL	NIL	NIL	NIL	11	02
Dr. Rajat Deb	Ph.D	Assistant Professor	Guest	Accounting, Finance & Tax Planning	15	NIL	NIL	NIL	NIL	63	04
Mr. Jayanta Datta	M.Sc	Statistical Officer, TU	Guest	Statistical methods (Theory and Practical)	05	NIL	NIL	NIL	NIL	NIL	NIL
Mr. Swarup Nandi	B.Tech, M.Tech (CSE)	Lecturer, Department of IT	Guest Faculty	Information Technology	16	NIL	NIL	NIL	NIL	NIL	NIL
Dr. S. K. Dey	Ph.D	Jt. Director, Principal Scientist, Regional Research Station (RRS), Rubber Board, Agartala	Guest	Rubber Plantation	06	NIL	NIL	NIL	NIL	NIL	NIL
Dr. D. Roy	Ph.D	Scientist, Regional Research Station (RRS), Rubber Board, Agartala	Guest	Rubber Plantation	06	NIL	NIL	NIL	NIL	NIL	NIL
Mr. B. Datta	M.Sc	Scientist, Regional Research Station (RRS), Rubber Board, Agartala	Guest	Rubber Plantation	06	NIL	NIL	NIL	NIL	NIL	NIL
Mr. B. R. Mehra	M.Sc	Regional Research Station (RRS) Agartala	Guest	Soil Chemistry (Theory & Practical)	06	NIL	NIL	NIL	NIL	NIL	NIL

<sup>\*</sup>Must be mentioned

#### 2. Visiting Faculty from Tripura University to other Institutions/Universities:

Name	From	То	Institutions/	Name of the Department / School
	(DD/MM/YY)	(DD/MM/YY)	Universities	(where invited as visiting faculty)
Dr. Bishnu Prasad Koiry	03/03/2021	27/03/2021	ICFAI University, Agartala	B. VOC Rubber Technology

### 3. Outreach Footprint of the Department:

#### 3.1 Membership in Professional / Learned Societies:

Faculty/ Scholar Name	Name of Society	Grade of Membership
Dr. Bishnu Prasad Koiry	The Society for Polymer Science, India (SPSI)	Life Member

### 4. Teaching Laboratory/ Research Laboratory:

Total No. of Lab (A+B)	No. of Teaching Lab (A)	No. of Research Lab (B) (Build up with Project Funding)
03	03	NIL

#### 5. Major Instruments available in the Department:

Mooney Viscometer; Oscillating Disc Rheometer; Two-Roll Mill; Universal Testing Machine (UTM); DIN Abrader; Brookfield Viscometer; Ubbelohde Viscometer; Sample die cutting Press.

#### INTEGRATED MASTER'S DEGREE PROGRAMME

Head of the Department : Prof. R.N. Dutta Purkayastha

Year of Establishment : 2011

Programmes on offer : Integrated Master's Degree

Intake capacity : 188

#### Major achievements/ Vision of the Department:

In pursuance of the UGC's recommendations on reforms in higher education, Tripura University has introduced the Integrated Master Degree (IMD) Programme in the Humanities and Social Science disciplines, Mathematics and Computer Applications. The Programme solicits scholars fresh out of their higher Secondary or plus two programme ready to pursue a career in the general Degree courses of the University, but with the aim of developing basic research skills in higher education. The Course structure and the subject combinations offered through the semester pattern of examinations aim at preparing undergraduate students both for competitive examinations at various levels, as well as for equipping them with all necessary databases enabling a smooth entry into higher academics.

#### 1. Faculty Members:

					/-	Pl	n.D	Maste	r Thesis		
					arch	Guid	lance	Guid	dance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Prof. R.N. Dutta	Ph.D	Coordinator	(Addl.	-	-	-	-	-	-	-	-
Purkayastha			Charge)								
Dr. Arup Jyoti	Ph.D	Asstt.	(Addl.	-	-	-	-	-	-	-	-
Sarma		Coordinator	Charge)								
Dr. Shouvik	Ph.D	Asstt.	(Addl.	-	-	-	-	-	-	-	-
Bhattacharya		Coordinator	Charge)								



Head of the Department : DR. GAUTAM CHAKMA, DIRECTOR, DDE, TU (as on 07<sup>th</sup> January, 2021)

DR. K. B. JAMATIA, DIRECTOR, DDE (from 08th January, 2021)

Year of Establishment : 1996

Programme on offer : 1. MA Programme in Political Science

2. MA Programme in Education

3. MA Programme in Bengali

4. BA Programme

Intake capacity : 1. MA Programme in Political Science- 700

2. MA Programme in Education- 700

3. MA Programme in Bengali-700

4. BA Programme- (No Limit)

#### Major achievements/ Vision of the Department:

The Directorate of Distance Education (DDE) was established in 1996 to impart higher education through the distance mode with multi-media approach. As non-formal supplementary mode of education, distance education differs from the conventional formal system in its objective to reach the unreached, to include the excluded. Tripura University has consistently been promoting Distance Education in accordance with the guidelines of the Distance Education Bureau (DEB), UGC, New Delhi to cater to the needs of —

- 1. Students who discontinued their formal education owing to pecuniary and other circumstances.
- 2. Students living in geographically remote areas of the state.
- 3. In-Service persons, housewives, etc.

At present, there are more than 6000 students studying under this Directorate of Distance Education (DDE). This figure is by itself indicative of the popularity and reliability of the Directorate of Distance Education, Tripura University, amongst the common masses in general and the students of Tripura in particular.

#### 1. Full time Faculty Members:

		Guest/	a	rs of Research/ ence	Ph.D. Guidance		Master Thesis Guidance				
Name	Qualification (MPhil/Ph.D)	Designation	Full time/ Gue Contract	Research area	No. of years of Teaching/ Rese job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Swapna biswas	MA, M.Phil, Ph.D, B.Ed.	Assistant Professor	Contractual	Tribal Education in Tripura	9 Years	-	-	-	-	-	-

# 4

# 2. Guest Teachers/Contract Teachers/ Academic Counsellor:

		Institution affiliated			
Name	Topics of courses/lectures taught in Tripura University	with now/previously			
		(if retired)			
SRI. MANIMOY PAL	Measurement and Evaluation, Statistics and Research	Tripura University			
SKI. IVIANIIVIOT FAL	Methodology.	Tripura Offiversity			
SRI. SAMAR KR. MANDAL	Comparative Education, Distance Education, Education	Tripura University			
SKI. SAIVIAK KK. WANDAL	Technology, Teacher Education.	Triputa Offiversity			
SRI. DEBASIS GAN CHOUDHURY	Educational Management and Administration,	Tripura University			
	Contemporary issues in Education, Teacher Education.	, ,			
SRI. DIPANKAR BISWAS	Curriculum studies, Teacher Education, Philosophical	Tripura University			
	Foundation in Education.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
DR. NIBAS CH. SIL	Special Education, Teacher Education.	Tripura University			
SRI. SAMBHU DEBBARMA	Philosophical Foundation in Education, Guidance &	Tripura University			
SIN. SAIVIBITO DEBBARIVIA	Counseling, Curriculum Studies, Sociology.				
DR. TINKU DE	Sociology, Research Methodology, Psychology.	Tripura University			
DR. SUBHASH SARKAR	Research Methodology, Measurement and Evaluation,	Tripura University			
511. 30 5117 37 1110 111	Psychology, Distance Education.				
DR. NIRMAL DAS	Short Story, Novel, Essay	Tripura University			
DR.RINTU DAS	Poem, Novel, Drama	Tripura University			
DR. RABINDRA KUMAR DATTA	Linguistics	Tripura University			
DR. SUTAPA DAS	Western Theory, Drama	Tripura University			
DR. JOY KUMAR DAS	Drama, Short Story	Tripura University			
SMT. PINANKI BISWAS	Education and Society	Tripura University			
DR. BARNALI GHOSH	Bengali Reading and Writing Skills	Tripura University			
DR. RAJIB GHOSH	Drama, History of Literature (Modern Age)	Tripura University			
DR. MRINAL KANTI DEBNATH	Modern Poem, Child Literature	Tripura University			
DR. ARUPA CHAKRABORTY	Novel, Drama	Tripura University			
SRI SUBHASH DEBNATH	Ancient Indian History	Tripura University			
SMT. LAXMISREE THAKUR	British Romantic Revival	Tripura University			
SRI. TITAN RUDRA PAUL	Bengali	Tripura University			
HAMIDA KHATUN	Bengali	Tripura University			
DR. RAJIB CHANDRA PAUL	Bengali	Tripura University			
MANJURI BISWAS	Bengali	Tripura University			
DR. SANDIP DEB	Bengali	Tripura University			
DR. JASHIM UDDIN	Political Science	Tripura University			
MRS. DIPIKANTA CHAKRABORTY	Political Science	Tripura University			
MAINUL ISLAM	Political Science	Tripura University			
ABDUL MALEK MIAH	Education	Tripura University			
DEBASISH DEBBARMA	Education	Tripura University			
MANASIJ DAS	Philosophy	Tripura University			
NAYEEM HUSSAIN	History	Tripura University			
KALIPADA DEBNATH	Political Science	Tripura University			
APU DAS	Philosophy	Tripura University			



Name of the Programme(s) : BA

Intake Capacity : No Limit

Student Enrolment Semester – III (2020-21)

Male	Female	Total	Ge	en	OI	BC	SC		ST		PH (Out of Total)		Minority		Outside State		Outside Country	
620	629 572	4204	М	F	М	F	М	F	М	F	М	F	М	F	М	F	М	F
629		1201	210	226	153	157	139	121	127	68	06	01	60	36	00	00	00	00

### Student Enrolment Semester – V (2020-21)

Male	Female	Total	G	en	OI	OBC SC		С	ST		PH (Out of Total)		Minority		Outside State		Outside Country	
-07	460	4065	М	F	М	F	М	F	М	F	М	F	М	F	М	F	М	F
597	468	1065	193	174	166	125	122	104	116	65	05	03	44	41	00	00	00	00





Director : Prof. Kashi Nath Jena

Year of Establishment: 1996

The Centre for Gandhian Studies came into being in Tripura University to popularize the ideas and thought of Mahatma Gandhi among the student community. It also envisages organizing programs popularising the Gandhian ideas within and outside the campus. Some of the programmes like capacity building, Shishu Panchayat, sanitation, communal harmony, peace and non-violence, popular lecture etc. carry forward the vision and mission of Mahatma Gandhi for establishing "India of my dream". The Centre also aims to start diploma, training and research activities for the students in near future. By organizing series of debates and drawing competitions, dramas and seminars, sanitation and preparing youth for Shanti Sena, the Centre has made a remarkable presence in the different societies of Tripura.

#### Manuscript Resource Centre and Manuscript Conservation Centre (MRC & MCC)

#### **Centre Name:**

Manuscript Resource Centre & Manuscript Conservation Centre (MRC & MCC), Tripura University. **Funding Agency:** 

National Mission for Manuscripts (NMM), Ministry of Culture, Government of India, New Delhi.

#### About:

The MRC & MCC came into being in the Department of History, Tripura University on 20<sup>th</sup> December, 2010 after signing MOU with National Mission for Manuscripts, Ministry of Culture, Government of India, New Delhi. The Centre was inaugurated by Prof. Amiya Kumar Bagchi, the Hon'ble Chancellor, Tripura University on 12<sup>th</sup> April 2011. With the collaboration of NMM and MRC & MCC, Tripura University has advanced efforts in the entire Tripura state protecting the old manuscripts.

The main objective of establishing this centre is to collect, conserve and preserve the manuscript of Tripura state incorporating both modern and indigenous methods of conservation. The collaboration also promises a more intense coordination between the scientific community and manuscriptologists, to bring forth better technological tools and techniques to decipher, search, and retrieve the knowledge stored in these rare scriptures. Besides urban area, a chunk of rare manuscripts still remain as personal possessions of the people living in the villages of the State. Though people worship them, they are not aware of their importance and conservation aspects.

To reach out to such people, steps have been initiated by the MRC & MCC here in Tripura through Workshops, Seminars, Awareness Programmes and Public Lectures. At rural workshops and awareness programmes, the instructors from the centre teach the owners of manuscript collection the basics of threading, tying, cleaning, oiling and wrapping of the rare documents in practically possible ways. The MRC & MCC not only find the ways to locate, catalogue, preserve these Manuscripts, but also enhance access to them and spread awareness about it. The centre is trying to inform the people of entire Tripura state the necessity of preserving these age old manuscripts. By preserving these valuable manuscripts, it may help us to discover precious historical facts about Tripura. Last but not the least, these efforts of MRC & MCC shall help to inculcate a sense of responsibility in the society towards our rich past.

#### **Centre Directory:**

Name	Designation	Contact
Dr Champeswar Mishra	Coordinator	Phone No: 9955883999
	Coordinator	E-mail: librarian@tripurauniv.ac.in





With the financial support of DBT, New Delhi, Bioinformatics Centre was established in the year 2008 in Tripura University under the Supervision of Professor S. Banik, Principal Investigator of the project & the then Head, Department of Zoology. As per sanction of DBT, New Delhi the basic objectives of the Centre were to develop knowledge and research on "Establishment of Bioinformatics Infrastructure Facility". Since inception the Centre has been extending services for the promotion of Biology teaching through Bioinformatics (BTBI). A number of Seminars, Workshops etc has been organised by Bioinformatics Centre for the Researchers of the North-East. The Centre also provided training in the field of Bioinformatics to the Students, Research scholars and Teachers as well. During September 2015, Dr. Harsh Bardhan, Honourable Minister of Science & Technology and Earth Sciences, Government of India inaugurated the Centre. Later on, the Bioinformatics Centre was handed over to Dr. S. Bhatacharjee, Department of Molecular Biology & Bioinformatics. Utilizing resources of Bioinformatics Centre Dr. Surajit Bhattacharjee published more than 10 research papers in internationally reputed journals.

#### **Biotech Hub**

State Biotech Hub, Tripura University established in 2011 under the co-ordinatorship of Prof. Debasish Maiti from the fund of DBT, Govt. of India. The honourable Union Science & Technology minister, Dr. Harshvardhan, visited the Hub on 2015. The hub is promoted to Advanced State Biotech Hub on 2018. From 2011, regular training program to students, project work, 3-5 days workshops, Outreach program to different colleges and school were organized regularly. From the state and out of the state students and faculties visited the hub and school students were encouraged visiting the Advanced State Biotech Hub. In December, 2019, project is completed and the student related activity including project in hub, training program, 3-5 days workshop. Outreach program of the hub is stopped. Due to unavailability of fund a few equipments including -800c Freezer, 3-30K Centrifuge, one spectrophotometer are out of order and some are still running and research scholars and faculty members are working using the infrastructure facility of the hub. In 2021, DBT, Govt. of India advertised for 2<sup>nd</sup> phase of fund distribution and Advanced State Biotech Hub, Tripura University has applied for 2<sup>nd</sup> Phase fund.

#### University Library

#### 1. Central Library: An Overview

The Calcutta University Post Graduate Centre (CUPGC), Agartala, Tripura, was converted into the Tripura University (State) on October 2, 1987, and was awarded the status of Central University on July 2, 2007. To meet the needs of its students, academics, and research scholars of all disciplines, the university houses one of the best library systems in Tripura. The Central Library has developed a lot and claims to be one of the resourceful academic libraries in the state. The Central Library acts as a crucial resource and learning centre of the University to meet the information needs of its clientele for the growth and development of the University. Ever since its inception, the Central Library has been relentlessly striving to be learner-friendly. It has registered huge success in the realm of collection, organisation, information dissemination, and sharing of knowledge.

# 2. Library Vision

- Build reference collections to support teaching, learning, and research.
- Provide access to local, national, and international information resources.
- Preserve the rare and unique collections on Tripura and North-East region.

# 3. Layout of the Library

The main library is situated in the centre of the campus and is easily accessible. The library is constructed on three floors with the total space size of 5415 sq.mts. At present, it is utilizing 2715 sq.mts for its regular operations. The total seating capacity of the library is 250.

#### **Ground Floor:**

- Cabin of the Librarian Cadres
- Circulation, Membership, Technical, Acquisition, Theses, and Periodical Section
- Stack areas for the Social Science, Philosophy, and religion collections
- Digitization and System Section
- Faculty Lounge, Library Office, Reprographic Section

#### First Floor:

- Stack area for Science, Applied Science and Management collections
- Manuscript Resource & Conservation Centre
- Conference Hall, e-Library
- Unique collection on Tripura and Eminent personalities
- Rabindranath Tagore Study Corner

#### Second Floor:

- Reference and Bound volume section
- Library Archives
- Seminar and Exhibition Hall

# 4. Working Hours

The library timings have been decided considering the need of the students. The library extends its service hours during examination time based on the request from students and faculty.

#### **Reference Time**

Monday to Friday: 09:30 AM to 08:000 PM Saturday and Sunday: 11:00 AM to 4:00 PM

## **Transaction (Counter) Time**

Monday to Friday: 10:00 AM to 05:30 PM

The library is closed on National and University Holidays.

# 5. Library Users

The library offers its services to faculty, students, research scholars, and non-teaching staff. A total of 1756 members registered from July 2020 to June 2021. A total of 1908 users visited the e-Library. During this period, the existing total number of library users is 3367 nos. and 1051 nos. of user issuance of the library clearance certificate. A total of 307 users visited the e-Library. Since it

was pandemic, around 10873 nos users consulted the library while maintaining all COVID protocols and 12020 books issued to the users during the period. Since its pandemic, the library has prioritized on maximum utilization of online resources through ICT-enabled platforms such as Remote Access. During the pandemic, 69035 e-resources from different sources were accessed by users during this pandemic. Also, many prominent personalities visited the library during this period.

#### 6. Branch Libraries

- The library has two branch libraries to cater to the needs of specialized requirements of the
  users; one library is located in the School of Management Building inside Tripura University
  campus which has a collection of 3264 books mainly on management, Law and Journalism,
  and mass communication subject;
- The other library is located at City Centre, Gandhighat, Agartala, to meet the needs of the students of the NET coaching Centre, Centre for Gandhian Studies, and Centre for Kokborok languages with the collection of 1047 books.

## 7. Library Collections

The library has a wide variety of collections. Over the years, the library has built excellent reference collections on Tripura and its culture. The library is also having special collections on and by a few prominent personalities.

#### **7.1 Print Resources**

- The total number of books accessed in the library as per the Accession register as of June 2021 is 149026. About 6413 books were added during the period July 2020 till June 2021.
- The library has a subscription of 90 print periodicals, 23 magazines on different disciplines, and 14 leading newspapers.
- The library has more than 535 theses, 135 dissertations, and about 1060 bound volume collections.

## 7.2 Digital and Online Resources

- The library has around 1300 CD/DVDs, which came along with the print books.
- The library has a collection of 31628 e-books from different publishers on various subjects. In this period, The University was accessing 14 online databases through e-ShodhSindhu, INFLIBNET. Tripura University has separately subscribed online journal/databases/tools such as Bentham Science (Life science collection); Capitaline Plus; Emerald (138 Journals); EPW Time Series; Grammarly; Indiastat (05 User Licenses); Prowess-IQ; EBSCO-Psychology and Behavioural Science; Scopus, etc. for the benefits of its users.

## 8. Library Staff

Twenty-five staff members are working in the library, including 05 officers, 13 library professionals, and 07 non-library professionals.

# 9. Library Automation

- The Central Library is using open source Integrated Library Management Software-KOHA
  for its in-house operations. The library manages the whole operation through KOHA to
  facilitate circulation, cataloguing, acquisition, serial control, OPAC, and other library
  activities. The library is using open source software Vufind and J-Gate for the federated
  search facility.
- The Central Library has a dedicated library portal to showcase the services and facilities for the users. Users can access rules and regulations; opening hours, services, resources, OPAC, Remote Access, etc.
- For the first time, the Central Library introduced Remote Access facility for accessing online
  resources for its users. Viewing the Pandemic situation, access to the online resources (ebooks, e-journals, database, etc.) which were earlier available from the University campus
  only. To facilitate off-campus access, the Central Library has purchased Knimbus Remote-X
  software and has taken initiatives to register almost 2495 users during this year.

#### 10. Research Initiatives

- The Central Library plays an instrumental and increasing role in supporting the University's teaching, learning, research, and innovation. Being the central pillar of the University, the central library has implemented Indian Research Information Network (IRINS) in collaboration with INFLIBNET Centre, Ahmedabad, to showcase the research work of Tripura University faculties at the National and International levels.
- The Central Library has updated the profile of faculty members in the VIDWAN expert database maintained by INFLIBNET Centre, Ahmedabad, to quickly and conveniently provide information about experts to peers, prospective collaborators, funding agencies policymakers, and research scholars in the country

#### 11. Resource Sharing and Participation in Consortia

The Central Library is one of the core members of INFLIBNET, where it is entitled to access 14 online journals/ databases through e-ShodhSindhu consortia. The library has also initiated the digitization of its thesis collection. The Central Library has digitized and uploaded around 202 PhD thesis of Tripura University in the National Repository of PhD thesis called ShodhGanga hosted by INFLIBNET Centre.

# 12. Life Membership

The library has life/Institutional membership with the following Institutes/organization.

- Life membership of Current Science
- Institutions of Engineers (India)

# 13. Library Facilities and Services

The Central Library is fully Wi-Fi enabled. It has common facilities such as Conference hall, Drinking water facility, Reading room, Research cubicles specially designed for researchers, Outer seating space for users, etc. The library has security systems such as CCTV and fire alarm. The library has the facility of Air-conditioners facilities in all the stacks and reading

rooms. Central Library has created a separate webpage to help students, faculty to provide Plagiarism Check service, Document Delivery Service, and Online database Search service during the pandemic.

The Central Library, Tripura University offers the following services to its users.

- Circulation Service
- Reference Service
- Lending Service
- Document Delivery Service
- Anti-Plagiarism Service
- Reprographic Service
- Online Public Access Catalogue (OPAC)
- Newspaper Clippings Service
- New Arrival Alert Service
- E-Library cum Digital Library Lab
- Citation Management Service
- Digitalisation Service
- Remote Access Service
- Open Access Support
- Online Catalogue of Theses
- Physically Challenged Service Desk

## 14. Awards And Recognition

Certificate of Recognition awarded to the Central Library, Tripura University by Sage Publishing Inc in recognition of outstanding services, constant support, excellence, and best in nurturing a learning environment for the benefits stakeholders of the central library on April 04, 2021.

#### 15. Library Events

The Central Library has organized the following programs during the period from July 2020 to June 2021.

- To commemorate the Birth Anniversary of Netaji Subhash Chandra Bose and on the occasion of Republic Day Celebration, Central Library -Tripura University has organized a "Week-long Book Exhibition on Netaji and Freedom Movement of Freedom Movement India" from 22nd January to 28th January 2021 at Central Library, Tripura University.
- In collaboration with Tripura University Literary Club, Central Library has organized a weeklong National Library Week from 17-20 November 2020. As part of this celebration, various competitions, including recitation, folk songs etc. have been organised through virtual mode.
- A week-long special lecture series on "Understanding the dimensions of Gandhian Philosophy has been organized as part of the celebration of the 150th Birth Anniversary of Mahatma Gandhi and Tripura University Foundation Day from 2<sup>nd</sup> October to 6<sup>th</sup> October 2020.

- The Central library has organized 6-Days Online Capacity Building Workshop for the Library Staff from 14th September to 19<sup>th</sup> October 2020, Central Library, Tripura University.
- As a part of celebrating the 150th Birth Anniversary of Mahatma Gandhi, Central Library and Dept. of Library & Information Science, Tripura University, in collaboration with the University of Dhaka, Bangladesh has organized an online Symposium on Gandhian Thoughts for Rural Literacy and Development "Self-Reliance through Nai Talim:" Prof. Sharif Uddin Ahmed, North South University, Dhaka, Bangladesh was the keynote speaker. The program was followed by a Plenary Session and open discussion. The entire program will be streamed live over Youtube on Thursday, August 27, 2020
- On the occasion of Librarian's Day and 128th birth Anniversary of Padmashree Dr. S.R. Ranganathan, Central Library along with Dept. of Library & Information Science, Tripura University has organised the keynote speech on "Data Science and Beyond" delivered by Shri R.N. Prasad, Founder, and Chief Practice Officer, Confluence Consulting Circle. Hon'ble Vice-Chancellor (i/c), Tripura University, and Dean of Science, Tripura University, address the participants of the programme.
- As part of Reader Awareness Programme, the central library has organized a 5-Days Online Preparatory Quiz Competition for users to prepare UGC/CSIR-NET at Tripura University from 29th June to 3rd July 2020. A total of 680 students were registered where more than 500 students were from outside of the State. It was a unique initiative from the Periodical Section, Central Library, to create awareness for using library services and resources among users. The e-Certificates were provided to all the participants.

# **16. Library Orientation Programs**

- Central Library has organised an online orientation programme on Knimbus-Remote Access Platform for the Faculty members, Research Scholars, Students, and Staff of Tripura University on 11th January 2021.
- The Central Library has organised an online webinar/ training on Language Correction Tool-Grammarly for the users of Tripura University on 22<sup>nd</sup> December 2020. A good number of users, including faculty, research scholars, staff, attended the programme.

# 17. Conference/Seminar/Workshop/Delivered Lectures/Talks by the Library Staff

The officers and staff of the Central Library, Tripura University, have attended/participated in the following events.

#### Dr Champeswar Mishra, Deputy Librarian

- Participated in Webinar on "Implementation of New Education Policy 2020" organized by Tripura University from June 11-12, 2021
- Delivered a lecture as resource person in the International Virtual Workshop on Thesis Writing and Publication jointly organised by Lavender Literary Club, India; Cape Comorin Trust, India; Andhra Loyola Institute of Engineering and Technology, Vijayawada, Andhra Pradesh, India; Department of English, St. John's College of Arts and Science, Amandivilai, Kanyakumari, Tamilnadu, India; and Cape Comorin Publisher, India from January 24-28, 2021.

- Participated in online One Day National Library Webinar on "Role of Library Department in Accreditation of Higher Education – NAAC & NBA Framework" organised by IQAC, TU on 23rd January 2021.
- Participated in 3-Days "Professional Development Programme (PDP) for officer and Non-Teaching Staff' organized by IQAC and FDC, Tripura University from January 15-17, 2021.
- Participated in the webinar on "Research metrics and ranking through the lens on Scopus and introduction to Mendeley" organised by Elsevier Publishing India on 10th December 2020.
- Participated in 5-Day online Faculty Development Programme on "Pedagogical Practices of New India Under National Education Policy 2020" jointly organized by Department of Business Administration, Assam University, Silchar, Department of Business Management, Tripura University and Manipur Institute of Management Studies, Manipur University from October 7 -11, 2020.
- Acted as a resource person in the International Virtual Workshop on Virtual Library and E-Content jointly organised by Lavender Literary Club, India; Cape Comorin Trust, India; Department of English, Kalasalingam Academy of Research and Education, (Deemed to be University), Krishnankoil, Tamil Nadu and India, ELTAI, Shimla Chapter from 1-7, October 2020.
- Acted as a resource person and delivered an online lecture in a 6-Days online Capacity Building Workshop for Library Staff on "Reference Management in Academic Writing using Mendeley" from 14th September to 1st October 2020.
- Participated in National Webinar on "Open Access Scholarly Communications in Digital Era" organised by Department of Library & Information Science, Sambalpur University on 2nd September, 2020.
- Participated in Online Symposium on Gandhian Thoughts for Rural Literacy and Development "Self-Reliance through Nai Talim" organized by Central Library and Dept of Library & Information Science in collaboration with Dept. of Information Science and Library Management, University of Dhaka, Bangladesh on August 27, 2020.
- Participated in National level Webinar on "NDLI: User Awareness Program" organised by NDLI, IIT Kharagpur on 19th August 2020.
- Participated in Two Days National Level Faculty Development Programme on "An Effective E-Content Development Tools" jointly organized by IQAC and Dept. of Library of NSS College of Commerce and Economics, Mumbai from July 25-26, 2020.
- Participated in 5-days FDP on Skills for Librarianship by LIS Academy & NCSI NET Foundation, Bengaluru, from 16th May to 21st June 2020.

#### Sri Surendra Kumar Pal, Assistant Librarian

Participated in Second online International Seminar of SLA Asian Community-2021 on 29<sup>th</sup>
 June 2021.

- Participated in the National Webinar on "Measurement of Research Metrics" Organized by the Dept. of Library & Information Science in collaboration with Krishna Kanta Handiqui Library, Gauhati University, on 19<sup>th</sup> June, 2021.
- Participated in the Two Day Webinar on "Emerging Trends in Digital Research Library" organized by Scientific Information Resource Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, in association with Madras Library Association (MALA-KC) from June 16-17, 2021.
- Participated in the National Level Webinar on "Access of Library Learning Resources in Digital Format" organized by Panchmura Mahavidyalaya, West Bengal, on 13<sup>th</sup> June, 2021.
- Participated in Webinar on "Implementation of New Education Policy 2020" organized by Tripura University from June 11 -12, 2021
- Participated in the Webinar on "Enhancing Digital Heritage Experiences in Galleries, libraries, Archives Monuments and Museums (GLAM) in India" organized by Kala Nidhi Division of Indira Gandhi National Centre for Arts (IGNCA) on 7<sup>th</sup> June 2021.
- Participated in online Webinar on "Strengthening Research Planning skills using Elsevier's Science Direct & Scopus" at Indian Statistical Institute, Kolkata on 1st June, 2021.
- Participated in National Webinar on "Effective and Efficient Writing of Research Paper for Web of Science, Scopus Indexed Journals and Conference using Typeset Research Studio" organized by Sushant university, Gurugam on 29<sup>th</sup> May 2021
- Delivered a lecture on "Research Metrics" as resource person in the International Virtual Workshop on Thesis Writing and Publication jointly organised by Lavender Literary Club, India; Cape Comorin Trust, India; Andhra Loyola Institute of Engineering and Technology, Vijayawada, Andhra Pradesh, India; Department of English, St. John's College of Arts and Science, Amandivilai, Kanyakumari, Tamilnadu, India; and Cape Comorin Publisher, India from January 24-28, 2021.
- Participated in 3-Days "Professional Development Programme (PDP) for officer and Non-Teaching Staff' organized by IQAC and FDC, Tripura University from January 15 – 17, 2021.
- Act as a resource person and deliver Two online Lectures on 'Koha: Patron and Circulation" and DSpace-Institutional Repository" in a 6-Days online Capacity Building Workshop for Library Staff, organized by Central Library, Tripura University from 14th September to 1st October 2020.
- Participated in Five-Day online Faculty Development Programme on "Pedagogical Practices of New India Under National Education Policy 2020" jointly organized by Department of Business Administration, Assam University, Silchar, Department of Business Management, Tripura University and Manipur Institute of Management Studies, Manipur University from October 7 -11, 2020.
- Completed online certification program on Web of Science Advance Series organized by Clarivate Analytics on 7<sup>th</sup> October 2020.

- Participated and successfully completed AICTE (ATAL Academy) Online FDP on "Capacity Building" Organized by Thapar Institute of Engineering and Technology, Patiala, from October 26 -30, 2020.
- Participated in the online Webinar on "Jump-Starting Remote Teaching and Learning" organised by the Department of Library & Information Science Mizoram University, Aizawl, on 11<sup>th</sup> September, 2020.
- Participated in Online Symposium on Gandhian Thoughts for Rural Literacy and Development "Self-Reliance through Nai Talim" organized by Central Library and Dept of Library & Information Science in collaboration with Dept. of Information Science and Library Management, University of Dhaka, Bangladesh, on 27<sup>th</sup> August 2020.

## Sri Amitabh Kumar Manglam, Assistant Librarian

- Participated in the National Level Webinar on "Access of Library Learning Resources in Digital Format" organized by Panchmura Mahavidyalaya, West Bengal, on June 13th, 2021.
- Participated in Webinar on "Implementation of New Education Policy 2020" organized by Tripura University from June 11-12, 2021.
- Participated in online Webinar on "Strengthening Research Planning skills using Elsevier's Science Direct & Scopus" at Indian Statistical Institute, Kolkata on June 01, 2021.
- Participated in National Webinar on "Effective and Efficient Writing of Research Paper for Web of Science, Scopus Indexed Journals and Conference using Typeset Research Studio" organized by Sushant university, Gurugam on 29<sup>th</sup> May 2021.
- Participated in 1st international virtual lecture on "Cloud Computing and Digital Transformation" organised by Department of Business Management, Tripura University on 5<sup>th</sup> February 2021.
- Delivered an online Lecture on "Research Metrics" in International Virtual Workshop on Thesis Writing and Publication on 28<sup>th</sup> January 2021.
- Participated in online One Day National Library Webinar on "Role of Library Department in Accreditation of Higher Education – NAAC & NBA Framework" organised by IQAC, TU on 23<sup>rd</sup> January 2021.
- Participated in an online webinar on "The Challenges of Online Education in India" organized by Tripura University Alumni Association (TUAA) on 21st January 2021.
- Participated in a one-week Online Induction Program 2021 for Library Professionals organised by the Assam Library Association (ALA) on January 18-22, 2021.
- Participated in 3-Days "Professional Development Programme (PDP) for officer and Non-Teaching Staff' organized by IQAC and FDC, Tripura University from January 15-17, 2021.
- Participated in a One-Week National Workshop on Emerging Tools and Technologies in Research (3rd ETTR 2020) organised by the Department of Information Technology Tripura University from December 14-18, 2020.

- Attended a Two Week online Refresher Course for Career Advancement Scheme (CAS) promotion entitled "Teachers on Using ICT for Online Teaching Learning Process" under the scheme of PMMMNMTT with an "A" Grade, conducted by FDC, Tripura University from December 1-14, 2020.
- Participated in the webinar on "Research metrics and ranking through the lens on Scopus and introduction to Mendeley" organised by Elsevier India on 10th December 2020.
- Participated 5- days Online Faculty Development Programme for Career Advancement Scheme (CAS) promotion in "Applications of ICT in Academic and Research Libraries" conducted by NIEPA, New Delhi, from November 23-27, 2020.
- Participated in a one-week Webinar cum faculty development program on "Recent Trends in Electronics and Information Technology" (RTEIT-2020) jointly organised by the Department of Information Technology and Electronics and Communication Engineering, Tripura University, from November 9-13, 2020.
- Participated in National Seminar (web) on "Ancient Indian Education System" organised by Department of Education and Management, National Institute of Technical Teachers' Training and Research, Kolkata from November 11-12, 2020.
- Participated in Five-Day online Faculty Development Programme on "Pedagogical Practices
  of New India Under National Education Policy 2020" jointly organized by Department of
  Business Administration, Assam University, Silchar, Department of Business Management,
  Tripura University and Manipur Institute of Management Studies, Manipur University from
  October 7 -11, 2020.
- Acted as a resource person and delivered Two online Lectures on "Koha: Acquisition Module' and 'Koha: Cataloging Module" in 6-Days online Capacity Building Workshop for Library Staff, organized by Central Library, Tripura University from 14<sup>th</sup> September to 1<sup>st</sup> October 2020.
- Participated in National Webinar on "Information Discovery and Management Facilitate the Academic Career" organized by Synergy Polytechnic, Bhubaneswar on 29th September 2020.
- Participated in the webinar on Copyright Issues in Digital Era organised by Balani Infotech, New Delhi, on 10th September, 2020.
- Participated in an online webinar on "A Cursory Glance on Colloid and Interface Science with Special Reference to Nanoparticles" organized by Tripura University Alumni Association (TUAA) on 9th September, 2020.
- Participated in National Webinar on "Open Access Scholarly Communications in Digital Era" organised by Department of Library & Information Science, Sambalpur University on 2nd September, 2020.
- Participated in Online Symposium on Gandhian Thoughts for Rural Literacy and Development "Self-Reliance through Nai Talim" organized by Central Library and Dept of Library & Information Science in collaboration with Dept. of Information Science and Library Management, University of Dhaka, Bangladesh, on August 27, 2020.
- Participated in National level Webinar on "NDLI: user awareness program" organised by Tripura University on 19th August 2020.

- Attended the UGC sponsored Orientation Course in Online for Career Advancement Scheme(CAS) conducted by HRDC, Mizoram University (A Central University) from 28th July to 17th August 2020 and was awarded Grade 'A'.
- Participated in National level Webinar on "The Lean Library components: Library Access, Library Assist, and Library Alternatives" organised by SAGE Publishing on 14th August 2020.
- Participated in National Webinar on "Librarianship: New Skills Required Based on Current Times" organised by Balani Infotech, New Delhi on 13th August 2020.
- Participated in National Webinar on "role of library and information professionals in new education policy 2020" organised by Jharkhand Information and Library Association, Ranchi on 12th August 2020.
- Participated in State Level Online Awareness Programme "Web-Based Plagiarism Detection Software" Organized by INFLIBNET Centre, Gandhinagar, Gujarat on 06th August 2020.
- Participated in Two Days National Level Faculty Development Programme on "An Effective E-Content Development Tools" jointly organized by IQAC and Dept of Library of College of Commerce and Economics, Tardeo, Mumbai from July 25-26, 2020.
- Participated in National Webinar on "Web Design Tools and Techniques" organized by Department of Library Science, C.Kandaswami Naidu College for Men, Chennai on July 24th, 2020.

## Sri Sanjay Kumar Sahoo, Assistant Librarian

- Participated in Webinar on "Implementation of New Education Policy 2020" organized by Tripura University from June 11-12, 2021.
- Participated in three days 'Professional Development Programme (PDP) for officer and Non-Teaching Staff' organized by IQAC and FDC, Tripura University from January 15-17, 2021.

#### Sri Paramjinang Moita, Semi Professional Assistant

- Participated in 3-Days in "Professional Development Programme (PDP) for officer and Non-Teaching Staff' organized by IQAC and FDC, Tripura University from January 15-17, 2021.
- Participated in online National Webinar on "Role of Libraries and LIS Professional During Pandemic Period organized by the Department of Library & Information Science, University of Jammu in association with Central Library, IIT Jammu, & Kanimbus Pvt. Ltd from June 3-7, 2020.
- Participated in the three-day online International Webinar on "Post covid-19: Challenge and Opportunities for Libraries and Library Professionals". Organized by Dept. of Library & Information Science, Andhra University from June 3-6, 2020.
- Participated in online National Webinar on "Intellectual Property Rights and its Applications" organized by the IQAC and the Department of Zoology, St. Anthony's College, Shillong, from December 11-12, 2020.

# Sri Bharat Praveen Sonker, Semi Professional Assistant

 Participated in 3-Days on "Professional Development Programme (PDP) for officer and Non-Teaching Staff' organized by IQAC and FDC, Tripura University from January 15-17, 2021.

# Sri Anil Kumar Chaurasiya, Semi Professional Assistant

- Participated in 3 days on "Professional Development Programme" (PDP) for officer and Non-Teaching Staff' organized by IQAC and FDC, Tripura University from January 15-17, 2021.
- Participated in one day Online E-quiz Webinar on "DELNET Networked Resources & Services" organized by Web Soft Segment, IT Institute, Kanpur, Uttar Pradesh on 17<sup>th</sup> December 2020.
- Secured 2<sup>nd</sup> position in essay competition on "Corruption Free India" organized by Tripura University on 30<sup>th</sup> October 2020.
- Participated in one day Online Webinar on "Managing your mental health is an ongoing journey: Let's embrace the process" organized by Edit age Insights, VP, Content, and Community, Cactus Communications on 15<sup>th</sup> July 2020.
- Participated in one day Online E-quiz Webinar on "Environment Awareness" organized by Web Soft Segment, IT Institute, Kanpur, UP on 13<sup>th</sup> July 2020.
- Participated in one day Online Webinar on "Seeing Through Misinformation: Combating The Fake News Online" organized by Knowledge Resource Centre, TERI, on 7<sup>th</sup> July 2020.

#### 18. Anti-Plagiarism Check Service

Around 2879 documents have been analyzed by Anti-Plagiarism Software, namely Urkund and iThenticate, by the users of Tripura University during the period from July 2020- June 2021.

#### **FACTS & STATISTICS AT A GLANCE**

# A. COLLECTIONS

Collection Type	Collections			
Print & Other Collections				
Print Books	149026			
CDs/DVDs	1300			
Bound Volumes	1060			
Theses	535			
Dissertations	135			
Print Journals	90			
Magazines	23			
Newspapers	14			
Online Resources & Tools				
e-Books	31628			
Online Databases & Tools (TU Susbcription)	10			
E-ShodhSindhu (INFLIBNET)	14			
Language Correction Tool	01			
Anti-Plagiarism Cheking Tool	02			

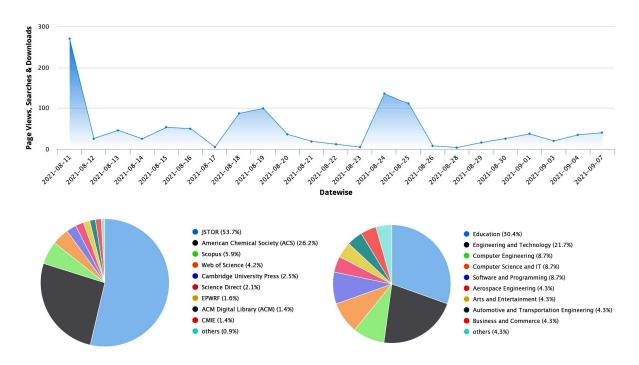


Resources Type	Source of Subscription	Active Downloads/ Sessions	
Online e-books	Tripura University	8863	
Online Journals and Databases	Tripura University	24612	
E-ShodhSindhu	INFLIBNET	35560	
Anti-Plagiarism Software	Tripura University	2879	
Language Correction Tool-Grammarly	Tripura University	380	
Remote Access Service	Tripura University	2495	
(Regestered Users)	Tripula Offiversity	2433	

# **C. USAGES STATICS OF ONLINE RESOURCES & TOOLS**

Usages	Statistic	s of Onl	ine Reso	urces Acc	essed thro	ough eSho	odhSindh	ı, INFLIBN	IET (July	, 2020- J	une, 2021	.)	
Resource Name	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total
ACM Digital Library	4	10	8	22	25	11	22	18	28	17	11	6	182
American Chemical Society	93	210	77	143	230	222	224	186	336	361	186	118	2386
American Institute of Physics	24	49	19	36	53	48	59	57	118	98	22	24	607
American Physical Society	18	39	16	34	38	22	15	11	39	61	7	14	314
Annual Reviews	3	11	7		11	10	18	12	16	17	5	5	115
Institute of Physics	8	35	5	25	49	28	26	14	0	0	0	0	190
JSTOR	505	419	432	471	619	447	659	731	1012	1425	680	471	7871
MathSciNet	0	5	0	0	6	0	0	14	4	1	0	0	30
Nature	58	38	21	24	44	38	56	37	54	58	43	30	501
Oxford University Press	26	90	71	62	105	97	96	124	152	151	37	41	1052
Project Muse	0	1		4	5	1	7	10	9	3	3	0	43
Royal Society of Chemistry	10	25	12	25	28	26	32	19	58	87	35	27	384
Springer Link	915	894	735	480	690	886	935	776	840	835	889	747	9622
Taylor and Francis	144	137	151	169	202	191	326	185	359	365	132	156	2517
Web of Science	22	16	80	34	27	81	107	117	56	69	34	41	684
Wiley-Blackwell	287	338	228	212	462	471	420	530	644	541	310	226	4669
Us	ages Sta	itistics o	f Online	Resource	s Subscrib	ed by Tri	pura Un	iversity (J	uly, 202	0- June, i	2021)		
Bentham Science	03	7	03	9	02	10	05	03	12	12	15	0	81
Capitaline Plus	49	40	103	8	0	9	0	659	86	19	17	290	1280
Emerald (138J)	39	82	65	97	57	111	150	162	85	126	186	288	1448
EPWRF India Time Series	2	11	0	1026	141	835	165	670	183	273	617	221	4144
Grammarly	38	41	41	47	45	23	23	10	28	28	28	28	380
IET Digital Library	1	2	2	6	18	13	0	4	32	Х	Х	Х	78
Indiastat	31	90	0	4	31	28	0	2938	2799	118	19	67	6125
Prowess-IQ	10	0	3	8	78	77	130	116	0	0	0	98	520
Sage e-Journals	1	2	28	39	36	68	94	59	76	88	98	61	650
Scopus	159	95	434	68	42	146	133	144	417	322	213	93	2266
Wiley Journals	0	0	0	0	1118	803	723	878	1092	923	514	380	6431

# **Cumulative Usage of Online Resources through Remote Access Service**



# **Computer Centre**

A Computer Centre was established in 1992 to facilitate a common computational resource centre for the academic programs as well as for maintenance of other computing resources in Tripura University. Over the years the University has grown substantially in terms of departments and academic programs as well as in infrastructure. The Computer Centre has implemented a campus LAN with optical fibre backbone connecting the academic as well as administrative departments spread over the University campus. Internet connectivity is provided throughout the campus. It coordinates computing works like students' registration, result publication work. It also conducts training program on Computer and Information Technology. In the Computer Centre, practical classes are held for some of the Departments. The Computer Centre maintains one Central network Server Room. It maintains five Computer Centres spread over Library building, Academic building-II, Academic building-VI, Academic building-X and Academic building-XI. The Computer Centre introduced Internet facility through Wi-Fi access points which are installed in almost all Academic Buildings to enable students to access Internet through their personal laptops and mobile phones which are registered in the Computer Centre. Computer Centre provides Internet ID to Students, teachers and staff to access Internet through Wired LAN network. The Computer Centre conducts counciling program for students and teachers on online courses developed by MHRD using SWAYAM and NPTEL.

## **Health Centre**

The Tripura University has a Health Centre to provide basic out-patient department (OPD) and observation facility and has been established to look after healthcare needs of students, research scholars, staff members, officers, faculty members and their families. The Tripura University Health Centre also attends to patients coming from adjoining areas providing them with medicine and urgent treatment in case of emergency.

The Health Centre is equipped with oxygen (using oxygen concentrator), nebulizer, sterilizer and other basic equipments that are essential for primary healthcare.

The Tripura University Health Centre is open from morning until night for providing healthcare. Two medical officers and two nurses provide their regular services at the Health Centre instilling confidence in the university family.

# **Tripura University Sports Board**

The Tripura University Sports Board came into existence in 1998. The Tripura University Sports Board organizedvarious Games & Sports in every year among the University Students, as well as Inter-Departmental Football, Volleyball, Kabaddi and Cricket Competitions, Annual Sports & Indoor Games. A large number of students, teachers, Officers and non-teaching staff participate in the Competitions. Every year we conduct Inter College Competitions in various events such as Football, Cricket, Volleyball, Kabaddi, Yoga, Judo, Table Tennis and Athletics among all affiliated Colleges under Tripura University and have been participating in East Zone/All India Inter University Competitions.

#### **FIT INDIA ACTIVITY**

In Fit India Movement approximately 500 nos Faculties, Staff, and Research Scholar, Students have participated in fit India movement Run.

# **Inter Department and Inter College Competition:**

Due to Covid-19, Sports Board did not organise any activities for the session.



#### **NSS UNIT**

Head of the Department : Dr. Rajesh Chatterjee (PhD, Rural Development)

Year of Establishment : 1992 Programmes on offer : NSS 01 E

Intake capacity : 326 (from IMD, MA, MSc, and Diploma students under CBCS)

Innovation : Incorporated NSS as a Paper in the CBCS method

Prizes : 1. State Level NSS Award was awarded by the Dept. of Youth

and Sports Affairs, Government of Tripura

2. **Honorary Appreciation** by the by the ISTD Guwahati for outstanding contribution to fight against Covid Pandemic

## Major achievements/ Vision of the Department:

NSS assists society by generating awareness and executing service approach. NSS Volunteers are stimulated to make changes through extension that result in more efficient production and marketing, conservation of natural resources, improved livelihood security, health, and more satisfying family and community life. Extension work is at the lowest in hierarchy, but extremely broad based in usage. It is also extremely location specific and usually susceptible to outside criticism. Extension work is to help people understand themselves.

The overall objective of NSS is to offer an extension of the academic activity of students and orient the student youth to community service. The educated youth who are expected to take the reins of administration in future are found to be unaware of the problems of the village / slum community and in certain cases are indifferent towards their needs and problems. Therefore, it is necessary to imbibe the social conscience of the students, and to provide them an opportunity to work with the people in the villages and slums.

#### 1. Faculty Members :

			ct		.se	Ph Guid		The	ster esis ance		
Name	Qualification (MPhil/Ph.D)	Designation	Fulltime/ Guest/ Contract	Research area	No. of years of Teaching/ Research/ job experience	Awarded	Existing	Guided	Existing	Citation	H-index
Dr. Rajesh Chatterjee	M.A., PhD (Rural Development)	Programme Officer	Additional Duty	Rural Infrastructure, Rural Entrepreneurship & Extension Education	15	01	04	10	08	01	01

#### 2. A. Assistant Coordinator:

Nama	Topics of courses/lectures taught in Tripura	Institution affiliated with now/previously
Name	University	(if retired)
Sri Partha Sarathi Shil	Basics of NSS	Dept. of Sanskrit, Tripura University



As per the guidelines of Activity Forum of National Service Scheme, under the Ministry of Youth Affairs & Sports Govt. of India, popularly known as NSS, the following activities may be undertaken as syllabus of CBCS system. The template of NSS Curriculum designed by CABE-UGC-MYAS, GoI, (vide letter D.O.No.F. 1-7/2011 (CPP-II), dated 13<sup>th</sup> August, 2015 from UGC) has been considered while preparing the following NSS-Syllabus. The syllabus is approved by the Dean Committee meeting, Tripura University held on 28<sup>th</sup> January, 2016 and subsequently from the academic council also.

4. SEMESTER: ODD AND EVEN Semester as Elective Paper

5. PAPER: **NSS E-01, CREDIT: 02** 

6. Marks: 50 (Theory – 20, Practical – 30)

7. Intake Capacity: 80 (01 Unit sponsored), 246 (3 units self-sponsored)

8. Pattern – Trimester/Semester/annual: Semester System (CBCS)

9. Curriculum design process/revision:

With the sincere help of syllabus committee comprising external expert, Dean Students Welfare, HoD of Physical Education and faculty members. To upgrade the syllabus of NSS, the PO, NSS Unit, TU participated in the workshop of NCRI-Hyderabad on 6-7<sup>th</sup> March, 2017 and a proposal also submitted to NCRI-Hyderabad by the PO NSS Unit for conducting 1-day goal table meeting with all departmental heads of TU.

10. Emphasis on diversity, flexibility and multi-skill development:

NSS Volunteers visit once in a week of the adopted eight villages of Tripura University

11. Skill based and Industry relevant curriculum:

Keeping in view the modern demand of the society, some training programmes related to digital literacy of Government of India programme, Health awareness camp, swachya Bharat programme, tree plantation etc. and overall rural reconstruction programme are conducted for the volunteers of NSS Unit.

12. CBCS based curriculum:

As per directive of CABE-UGC-MYAS, GoI, the curriculum follow the CBCS pattern.

- 13. Curriculum based on Outcome based education
- 14. Inter-disciplinary options: Students of different faculties like science, social science, engineering, management and linguistics are eligible for NSS as Elective subject in their four semesters curriculum.

## 15. Teaching-Learning and Evaluation

- 1. Adherence to Academic Calendar: As per the approved routine & rules of TU
- 2. Number of Working days per semester: 40 classes
- 3. Number of faculty members (Full-time/ Part-time/ Visiting etc.): 02
- 4. Teacher- Student ratio: 1:173

- 4
- 16. Innovation by the faculty in teaching /learning: Extension Activities
  - Effort is always there to work for the development of the society, and to obtain this objective SHGs are formed in the adopted villages of TU to promote them in innovation which is a part of practical of this curriculum.
- 17. Teaching-Learning with ICT support:
  - Teachers always use ICT in the class and outside the class with the help of LCD projector in the class and for 24-hours monitoring WhatsApp group is formed, use of email in this respect.
- 18. Faculty Development /continuing education programs:
  - Programme Officer of NSS Unit, Tripura University participated in the Workshop of NRCI-Hyderabad which was on syllabus up-gradation, research method on action research, process of village adoption, implementation process of central government's flagship programmes.
- 19. **Extension:** Volunteers are engaged and have been working in the 6-adepted villages of Tripura University

#### 20. Infrastructure:

Classrooms : 01 Office : 01

# **Activities completed:**

- 1. NSS Volunteers cleaning football ground as a part of their daily activities and they have also taken the responsibility to clean this ground on their own hand.
- 2. Swachhata Pakhwada-2020-21 was organised by the Tripura University where the NSS Volunteers from different department participated to make it a grand success. Garden cleaning is the part of daily activities of the NSS volunteers. Three days in a week is the work assigned to each and every department to clean the garden. Subsequently the university has decreased her daily labour cost on garden and university cleaning purposes.

# Rashtriya Poshan Maah-2020

As per the Directives of GUC, MHRD, GoI, NSS Unit of Tripura University organised **Rashtriya Poshan Maah** on 30/09/2019 to propagate and generate awareness on "Hand wash and Sanitation" to maintain Cleanliness and Hygiene among the masses. The programme was organised centrally where NSS Volunteers played the main key roles to satisfy the objectives of this endeavour. This awareness campaign was also convened in the adopted villages of Tripura University.

# Swachhata hi Sewa and Fit India Programme:

These two programmes were organisied on 2<sup>nd</sup> October, 2020 in the day of Mahatma Gandhi Birth centenary and this day is also observed as the foundation day of the Tripura University.

# **Sramadan** of the Volunteers on the followings activities:

- a. Pineapple garden
- b. Papaya garden
- c. Sweet Lemon Garden
- d. Plantation of trees under MHRD, GoI programmes
- e. amphitheatre cleaning

## **Innovative Achievement of the Year:**

- NSS Unit, Tripura University has taken initiative to introduce NSS as a 4-credit Optional Paper in the all affiliated colleges of this university. On the basis of resolution taken by the state government to initiate NSS as course in the college level, the NSS Coordinator has sent the proposal to the state liaison officer, NSS Unit, Government of Tripura on 12<sup>th</sup> August, 2021.
- 2. An online workshop was organised in collaboration with MGNCRE, Hyderabad on-Implementation of Social Entrepreneurship, Swachhata and Rural Engagement Business Idea Activities in 18.01.21

Program Agenda:

5 Minutes- Welcome note by Ms Tuti Sandhya, National SAP Coordinator, MGNCRE, Ministry of Education, GOI

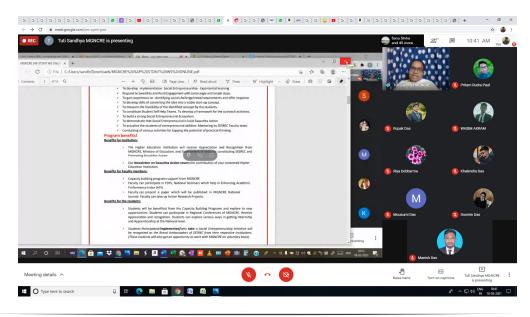
5 Minutes- Principal/Faculty Coordinator Overview

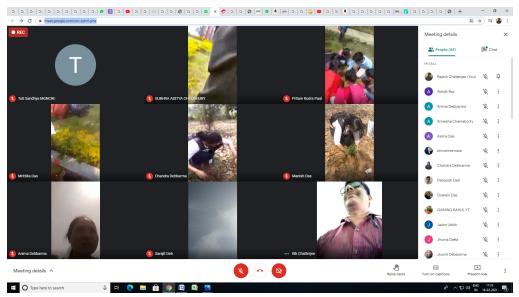
25 Minutes- Case study discussion on Social Entrepreneurship by MGNCRE Resource person

15 Minutes- Case Study Videos /photos (February Cluster level competition overview) by MGNCRE Representative

10 Minutes- Participants Feedback.

Self employability skill training by the MGNCRE, Hyderabad on 18th March, 2021





TREE PLANTATION BY SANDHYA MAM OF MGNCRE, HYDERABAD DURING 7-DAYS NSS CAMP FROM 18/03/21 TO 24/03/2021



People's awareness in the place of Battala Bazar, Agartala



State level NSS award



Honorary appreciation





Covid-19 Vaccine Awareness Programme in the Adopted villages

**BOOK FAIR** WAS HELD ON 26<sup>TH</sup> FEB, 2021 AT HAPANIA INTERNATIONAL INDUSTRY GROUND. ALL VOLUNTEERS AND STUDENTS OF TRIPURA UNIVERSITY PARTICIPATED IN THIS PROGRAMME.

The departments were EDUCATION, MBA, HISTORY, PSYCHOLOGY, PERFORMING ART, TRIBAL STUDIES AND LINGUISTIC

TOTAL 236 VOLUNTEERS PARTICIPATED IN THIS BOOK FAIR PROGRAMME



# **COVID-19 VACCINATION AWARENESS PROGRAMME:**

THIS PROGRAMME WAS CONDUCTED IN THE ALL SCHOOLS OF ADOPTED VILLAGES BY THE NSS VOLUNTEERS. THE PROGRAMME WAS STARTED IN THE MONTH OF FEBRUARY AND CONTINUED UPTO END OF THE APRIL, 2021. MAINLY THE PROGRAMME WAS CONTAINED WITH RALLY WITH THE SCHOOL CHILDREN, AWANRESS PROGRAMME WITH THE SCHOOL CHILDREN UPTO CLASS-XII AND HOUSE HOLD VISIT OF THE STUDENTS AND TEACHERS. NEARABOUT 2356 HOUSEHOLDS WERE COVERED UNDER THIS AWARENESS PROGRAME. THIS PROGRAMME IS MONITORED BY THE MINISTRY OF HIGHER EDUCATION, GOVERNMENT OF INDIA.

# **Upcoming Activities:**

- Orientation programme in collaboration with state government for NSS Programme Officers of Colleges to sensitise and incorporate NSS as Optional Paper in the UG and PG level
- Awareness Programme on Covid-19 like Small group meeting, Miking, Dos and Don'ts, Food Distribution, making of mask and its distribution among the villagers, method of low cost sanitizer preparation with highly effectiveness, use of mixture with Tulsi Leaf/ Turmeric / zinger etc. use of hot water vapour, Yoga to increase immune power of the villagers.
- 3. Camp (Virtual or Physical whatever will be deem fit)
- 4. Webinar on different issues mainly covid-19
- 5. Training programme on paper made bag and packets for Atmanirbhar
- 6. 300 tree plantation in the entire University and
- 7. Routine Activities of NSS

# The following activities have been done during the Special Camp held on 18<sup>th</sup> March to 25<sup>th</sup> March, 2021. Few glimpses of the programmes are also attached for your kind information.

Days	Date	Activity
Day-1	18/03/21	Seminar on "Swachhata Action Plan Implementation through Social Entrepreneurship", jointly organised with MGNCRE, Hyderabad
Day-2	19/03/21	Tree Plantation in the University Premises and adopted villages
Day-3	20/03/21	Swachhata Aviyan in the adopted villages
Day-4	22/03/21	Implementation of Rural Development Programmes on Social Security









Netaji Jayanti, also known as "**Netaji Subhas Chandra Bose Jayanti**" **or officially "Parakram Divas" or "Parakram Diwas" (Day of Valour)**, is a national event celebrated in India to mark the birthday of a prominent Indian freedom fighter Netaji Subhas Chandra Bose. NSS Unit, Tripura University also celebrated 23<sup>rd</sup> January as Parakram Diwas.



# **Engineering Cell**

The office of the Engineering Cell of the university is for looking after all the new and ongoing construction works besides doing all repair/maintenance works both electrical and civil. This office is also looking after the 24x7 operation and maintenance of 33/11 KV substation for providing steady power to all Facilities/Utilities of the University beside distribution of drinking water to all stakeholders.

# List of works (under form -11 route) completed as on 07.08.2019

SL NO	Name of Work	Work order value (Rs)	Remarks
1.	Extension patch painting in M.B.B. auditorium in view of 11 <sup>th</sup> Convocation of Tripura University scheduled to be held on23/05/2018.	Rs. 47,908/-	-
2.	Urgent maintenance with replacement of damaged components of HT/LT line including distribution transformer at Tripura University Campus, Tripura University, Suryamaninagar.	Rs. 48,542/-	-
3.	Urgent maintenance due to heavy storm that occurred on 10/05/2018 with replacement of damaged components of HT/LT line materials at Tripura University Campus, Tripura University, Suryamaninagar	Rs. 38,425/-	-
4.	External painting of front and side portion of Examination Branch, Tripura University (110 m approximate) 11 <sup>th</sup> Convocation of Tripura University.	Rs. 45,113/-	-
5.	External painting of front and side portion of Examination Branch, Tripura University (110 m approximate) in connection with 11 <sup>th</sup> Convocation of Tripura University ( Group-A)	Rs. 45,113/-	-
6.	External painting of front and sides portion of Examination Branch, Tripura University (110 m approximate) in connection to Tripura University (Group-B)	Rs. 45,113/-	-
7,	Supply and installation of portable wooden stair for Main stage of M.B.B. auditorium in view of 11 <sup>th</sup> Convocation of Tripura University scheduled to be held on 23/05/2018.	Rs. 43,000/-	-
7(A).	Necessary supply, fitting, fixing of two nos. stainless steel hand railing, one nos. floor mat in VIP Toilet in Examination Branch GF, and two nos. black board for stage box in M.B.B. Auditorium, Tripura University, Suryamaninagar. (Group-A)	Rs. 39,071/-	-
8.	Necessary supply, fitting, fixing of two nos. stainless steel hand railing, one nos. floor mat in VIP Toilet in Examination Branch GF, and two nos. black board for stage box in M.B.B. Auditorium, Tripura University, Suryamaninagar. (Group-B)	Rs. 36,365/-	-
9.	Replacement of damaged ACSR including service wire at old Guest House, Annex Building & Quarter Complex etc. at Tripura University Campus, Tripura University , Suryamaninagar, Tripura, (Group-A).	Rs.47,548/-	-
10.	Replacement of damaged ACSR including service wire at old Guest House, Annex Building & Quarter Complex etc. at Tripura University Campus, Tripura University , Suryamaninagar, Tripura, (Group-B).	Rs. 49,515/-	-
11.	Renovation and augmentation work in Vice-Chancellor's Bungalow and surrounding boundary wall and approach road etc. in Tripura University Campus, Suryamaninagar/SH-Providing and fixing of one no's, wooden arch and one nos. shoe rack decoratively finished complete with all accessories as per direction of Engineer-In-Charge.	Rs. 49,200/-	-
12.	Providing provision for installation of 2 Nos. AC machines at O/o the Joint Registrar(D &P) Tripura University/ Providing for installation of KVA online UPS Connectivity at the CC TV server and power boards at the office chamber of the Controller of Examination, Tripura University, Suryamaninagar, Tripura(W).	Rs.42,939/-	-
13.	Providing installation of Motor protection circuit Breaker and power factor improving capacitor at 2 Nos. DTW installed at Tripura University, Suryamaninagar, Tripura (W).	Rs. 29,831/-	-



14.	Supply, installation and commissioning of 1(one) no. chimney for the Kitchen of the Hon'ble Vice-Chancellor's Bungalow, Tripura University, Suryamaninagar,	Rs. 43,788/-	-
15.	Construction of Sentry post in front of the official residence of the Hon'ble Vice-	Rs. 34,802/-	
13.	Chancellor Tripura University. Suryamaninagar,(Group-A)	113. 34,0027	
16.	Construction of Sentry post in front of the official residence of the Hon'ble Vice-	Rs. 34,802/-	-
	Chancellor Tripura University. Suryamaninagar,(Group-B)	, ,	
17.	Supplying of Excavated Earth and Bricks for gardening and horticulture around	Rs. 43,125/-	-
	the Vice-chancellor's Bungalow, Tripura University, Suryamaninagar.		
18.	Checking power transformers, C.Ts, P.T, Isolators lighting Arrester etc. including	Rs. 48,730/-	-
	connection of 11KV Amtali & Suryamaninagar Feeder into the 33/11KV Tripura		
	University Sub-station, Tripura University, Suryamaninagar (Group-A)		
19.	Checking power transformers, C.Ts, P.T, Isolators lighting Arrester etc. including	Rs. 48,289/-	-
	connection of 11KV Amtali & Suryamaninagar Feeder into the 33/11KV Tripura		
20	University Sub-station, Tripura University, Suryamaninagar (Group-B) Installation of Black film on window and Door glasses for Vice-chancellor's	Rs. 49,720/-	
20.	Bungalow, Tripura University Campus, Suryamaninagar	KS. 49,720/-	-
21.	Augmentation of an additional room for Registrar Branch in Administrative	Rs. 28,568/-	
۷1.	Building, Tripura University, Suryamaninagar.	113. 20,300/3	•
22.	Providing Online UPS connectivity at 6 nos. P/Bs comprise of 4 nos switch/socket	Rs. 42,143/-	-
	in each board at the newly allotted Establishment Section (Teaching and Non-	1.5. 1.2,2 1.5,	
	Teaching), Registrar Branch, Tripura University, Suryamaninagar, West Tripura		
	from the existing UPS installed at the top Stair Case/ Provision for installation of		
	AC machines / Repair and maintenance of existing electrical installation thereof.		
	(Group-A).		
23.	Providing Online UPS connectivity at 6 nos. P/Bs comprise of 4 nos switch/socket	Rs. 41,705/-	-
	in each board at the newly allotted Establishment Section (Teaching and Non-		
	Teaching), Registrar Branch, Tripura University, Suryamaninagar, West Tripura		
	from the existing UPS installed at the top Stair Case/ Provision for installation of		
	AC machines / Repair and maintenance of existing electrical installation thereof.		
22/4)	(Group-B).	D- 40 F32 /	
23(A).	Providing repair and maintenance of Flood light fittings and LED Flood light at Volley Ball Court, Tripura University/ Replacement of XLPE armoured cable of	Rs.48,523/-	-
	outdoor street light at back side of new Academic Building, Tripura University,		
	Suryamaninagar, West Tripura, West Tripura.		
24.	Providing installation of 5 (Five) no. Air Circulator 600 mm sweep Wall mounting	Rs.48,715/-	-
	Fan and 1 (One) no. 400 mm sweep Wall mounting FAN and 2 (Two) nos. Exhaust	-,,	
	Fan 380 at Sitting coach Lobby, Reception and Kitchen Room at New Guest		
	House, Tripura University, Suryamaninagar, West Tripura (Group-A).		
25.	Providing installation of 5 (Five) no. Air Circulator 600 mm sweep Wall mounting	Rs.19,753/-	-
	Fan and 1 (One) no. 400 mm sweep Wall mounting FAN and 2 (Two) nos. Exhaust		
	Fan 380 at Sitting coach Lobby, Reception and Kitchen Room at New Guest		
	House, Tripura University, Suryamaninagar, West Tripura (Group-B).		
26.	Special repair and maintenance work in Volleyball Court at Tripura University	Rs.46,442/-	-
2-	campus, Surjyamaninagar, Tripura.	D. 22 22= /	
27	Providing temporary illumination in and around the Vice-Chancellor residence at	Rs.33,885/-	-
	Tripura University Campus, Suryamaninagar, West Tripura in connection with		
20	ensuing the DIWALI-2018 w.e.f. 3rd November, 2018 to 8th November, 2018.	Rs.47,417/-	
28	Necessary repair and maintenance work in University Quarter (TYPE-IV/A/02) GF alloted to Dr, R.K Mahapatra and Quarter No- T/II/B/3 1F allotted to Mr. Nilratan	N5.41,41//-	-
	Bhattacharjee at Tripura University complex, Surjyamaninagar.		
29	Extention of internal Electrification with existing arrangement for making	Rs.43,528/-	_
	provision of connection with Air Conditioners at Depertment of Management of		
	Academic Building No.X of Tripura University, Suryamaninagar.		
	, , , , , , , , , , , , , , , , , , , ,	1	







30	Providing Online UPS connectivity at the C/Bs and other S/Bs at IAS Caching Centre, Day Care Centre, Tripura University, Suryamaninagar, West Tripura.	Rs.13,818/-	-
31	Providing installation of 12(Twelve) nos. power boards at 2(Two) nos. computer room for PG Diploma in Translation (Hindi) at Deptt. of Hindi, Tripura University, Suryamaninagar, West Tripura.	Rs.18,096/-	-
32	Repair and maintenance work in University Quarter (TYPE-IV/B/01) Tripura University , Surjyamaninagar (Group-A)	Rs.37,165/-	-
33	Repair and maintenance work in University Quarter (TYPE-IV/B/01) Tripura University , Surjyamaninagar (Group-B)	Rs.25,474/-	-
34	Providing provision of 50 nos. Power plug for room heater at 50 nos. Rooms at New Guest House, Tripura University, Suryamaninagar, West Tripura.	Rs.47,438/-	-
35.	Providing provision for installation of 1 no. AC machine at the Office chamber of Coordinator, Deptt. of Rural Studies // Providing provision for 5 nos. Computer board and necessary accessories at Student's computer Laboratory, Deptt. of Psychology, Day Care Centre, Tripura University, Suryamaninagar, West Tripura.	Rs.33,064.00	-
36.	Renewing and Refixing of steel frame window glasses with window Stays and Casement Fasteners in Academic Building No-I - VIII of Tripura University, Surjyamaninagar. (Group - A)	Rs.48,448.00	-
37.	Renewing and Refixing of steel frame window glasses with window Stays and Casement Fasteners in Academic Building No-I - VIII of Tripura University, Surjyamaninagar.(Group - B)	Rs.48,500.00	-
38.	Construction of an Aluminium Partition wall in the laboratory of Microbiology Department at the ground floor of Day Care Building, Tripura University Campus, Surjyamaninagar.	Rs.46,888.00	-

# List of works (under Tender Route) completed as on 07.08.2019

SL NO	Name of Work	Work order value (Rs)	Agreement value (Rs)	Remarks
01.	Construction of Phase-II project work, (Part- I) of Tripura	Rs.47,07,70,435.00	Rs.47,07,70,435.00	-
	University, Surjyamaninagar, Agartala, Tripura (W).			
02.	Shifting of HT/LT cines and 1X200 KVA distribution	Rs.3,15,236.00	Rs.3,15,236.00	-
	transformers from front side of the Academic building			
	to backside of exam. Bld. Tripura university			
	Suryamaninagar.			
03.	Providing service connection to the newly constructed building viz. car parking lot Academic building Girls hostel including construction of distribution Sub-station Tripura university Suryamaninagar.	Rs.9,93,363.00	Rs.9,93,363.00	-
04.	Rearrangement of internal accommodation of proposed central instrumentation centre of ground floor of Academic building VIII Tripura university Suryamaninagar.	Rs.6,02,983.00	Rs.6,02,983.00	-
05.	Providing repair and maintenance of electrical installation at Academic building XI Tripura university Surjyamaninagar (2 <sup>nd</sup> call)	Rs.1,32,739.00	Rs.1,32,739.00	-
06.	Renovation & replacement of internal electrification work with existing arrangement for computer center Academic building VI Tripura university Surjyamaninagar	Rs.88,586.00	Rs.88,586.00	-



07.	Providing provision of power connectivity to the different instrument viz. Muffle Furnace, Hot Air Oven and Autoclave etc. from the power panel to Open space Laboratory under Deptt of Forestry and Biodiversity, Academic Building No-XI, of Tripura University, Suryamaninagar, West Tripura.  Tripura University	Rs.91,139.00	Rs.91,139.00	-
08.	Providing provision of Power Plug and Computer Board at the Laboratory / Office Chamber of Dr. Ashutosh Kumar, Asstt. Professor, Deptt. of Micro Biology AND Drawing of Power connectivity from Ground Floor to 5th Floor of Day Care Building, Tripura University, Suryamaninagar, West Tripura // Providing Provision of 3 nos. Power Plug and 6 nos computer power board at the office chamber/ Laboratory of Sri Ashwini Chauhan, Asstt. Professor, Deptt. of Micro Biology, Day Care Centre, Tripura University, Suryamaninagar, West Tripura	Rs.1,43,043.00	Rs.1,43,043.00	-
09.	Renovation by construction of Laboratory Concrete slab working table with black granite top and cupboard locker in the Department of pharmacy, Academic Building No. XI of Tripura University Campus, Suryamaninagar.	Rs.5,36,471.00	Rs.5,36,471.00	-
10.	Special repairs and maintenance work per University quarter (CN-01-06) located at college Tilla campus Agartala for Tripura University, Suryamaninagar.	Rs.3,45,924.00	Rs.3,45,924.00	-

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# **Faculty Development Centre**

#### Introduction:

The Ministry of Human Resource Development, Government of India has approved a Faculty Development Centre in Tripura University under the scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) and accordingly a Faculty Development Centre has been established in the Tripura University in the year 2016.

# **Programmes Organized:**

#### **PROGRA MME NO: 11**

Two Week Online Refresher Course titled "Teachers on Using ICT for Online Teaching Learning Process" for Faculty in Universities / Colleges / Institutes held from 1<sup>st</sup> December to 14<sup>th</sup> December, 2020

The Faculty Development Centre (FDC), Tripura University decided to organize a Online Refresher Course for Faculties serving in Universities / Colleges / Institutes, from 1<sup>st</sup> December to 14<sup>th</sup> December, 2020.

The notification along with the format for application was uploaded to the Tripura University website as well as the same was circulated to different colleges and Universities, within the state and at the national level. The information was also sent by email attachment to the earlier participants for information and circulation among their friends.

The programme was inaugurated by Professor Badal Kumar Datta, Coordinator of Faculty Development Centre of Tripura University. Padma Shri Professor D.B. Pathak, CSE, IIT Bombay graced the occasion as chief-guest. Professor Badal Kumar Datta, Coordinator of Faculty Development Centre of Tripura University welcomed the gathering. The vote of thanks was offered by Professor Binod Chandra Tripathy, Programme Coordinator of Faculty Development Centre of Tripura University. The Valedictory function was held on 14<sup>th</sup> December, 2020. A total of 134 applicants were selected for participation. Out of which 115 participants completed the training programme successfully with grade A<sup>+</sup>. Out of which 72 participants were from different affiliated colleges under Tripura University. Among the participants from other states, 15 from West Bengal, 3 from Delhi, 1 from Assam, 1 from Haryana, 2 from Uttar Pradesh, 1 from Tamil Nadu, 1 from Orissa, and the rest of the 18 participants were from Tripura University.

A total of 14 resource persons delivered lectures in the programme. This includes 10 persons from different organisations outside the Tripura University. Prominent among them are Padma Shri Professor D.B. Pathak, CSE, IIT Bombay; Prof. Umesh Mishra, NIT Agartala; Prof. Sandeep Sancheti, Vice Chancellor, SRM Institute, Chennai; Prof. Manabendra Datta Choudhury, Dept. of Life Science & Bioinformatics, Assam University, Silchar; Prof. L. J. Singh, NEHU, Shillong; Prof. Samir Kumar Sil, Department of Human Physiology, Tripura University and other reputed personnel. There were a total of 66 hours programme was conducted.

The breakup is as follows-

Lecture - 34 Hours

Presentation by Participants - 28.5 Hours Inaugural and Valedictory - 3.5 Hours

In order to develop the skills of the participants, presentation by the participants were organized and the presentation sessions were chaired by the experts. The normal Google feedback from the participants was collected. A blind feedback form about the lectures delivered by the resource personnel was collected from the participants. The options were poor, satisfactory, good, very good and excellent and the reason for such grading. The participants expressed their satisfaction about the quality of lectures delivered by the experts and the arrangements. After analysing the feedbacks, it was observed that 1% lectures were poor, 5% were satisfactory, 12% were good, 48% were very good and 34% were excellent. Hence 94% of the lectures were good and about. Thus it shows that the participants are benefited by attending this Refresher Course.

#### **PROGRAMME NO: 12**

Two Week Refresher Course titled "Making Teaching Effective" for Faculty in Universities / Colleges / Institutes held from 15<sup>th</sup> March to 28<sup>th</sup> March, 2021.

The Faculty Development Centre (FDC), Tripura University decided to organize a Refresher Course for Faculties serving in Universities / Colleges / Institutes, from 15<sup>th</sup> March to 28<sup>th</sup> March, 2021.

The notification along with the format for application was uploaded to the Tripura University website as well as the same was circulated to different colleges and Universities, within the state and at the national level. The information was also sent by email attachment to the earlier participants for information and circulation among their friends. It was also published as news item in dailies.

The programme was inaugurated by Professor C. B. Majumder, Honourable Vice- Chancellor (i/c), Tripura University; Professor M. M. Chaturvedi, Ex-Dean, Dept. of Zoology, University of Delhi, New Delhi graced the occasion as Chief-Guest. Professor Badal Kumar Datta, Director of Faculty Development Centre of Tripura University welcomed the gathering. Professor Shyamal Das, Dean, Faculty of Arts and Commerce, Professor A. K. Saha, **Deputy Director, FDC**, Tripura University and Dr. Deepak Sharma, Registrar, Tripura University also address the gathering. The vote of thanks was offered by Professor B. C. Tripathy, Coordinator, FDC, Tripura University. The Valedictory function was held on 27<sup>th</sup> March, 2021. The Programme was presided over by the Professor R. K. Nath, Dean, Faculty of Science, Tripura University. A total of 37 applicants were selected for participation. Out of which 29 participants completed the training programme successfully. Out of which 18 participants were from different affiliated colleges under Tripura University. Among the participants from other states, 1 from West Bengal, 1 from Nagaland, 1 from Uttar Pradesh and the rest of the 8 participants were from Tripura University.

A total of 22 resource persons delivered lectures in the programme. This includes 10 persons from different organisations outside the Tripura University. Prominent among them are Professor M. M. Chaturvedi, Ex-Dean, Dept. of Zoology, University of Delhi, New Delhi; Professor Uma Shankar, Dept. of Botany, NEHU; Professor Rajat Gupta, Director, NIT, Mizoram; Professor Swati Pal, Principal, Janki Devi Memorial College, Delhi University; Professor Abani Kumar Bhagabati, Dept. of Geography, Gauhati University; Professor A. K. Saha, **Dept. of Botany,** Tripura University; Professor Anjan Mukherjee (Retd.), Dept. of Mathematics, Tripura University and other reputed personnel. There were a total of 63 hours programme was conducted.

The breakup is as follows-



Lecture - 49 Hours
Presentation by Participants - 12 Hours
Inaugural and Valedictory - 2 Hours

In order to develop the skills of the participants, presentation by the participants were organized and the presentation sessions were chaired by the experts. The normal feedback from the participants was collected. A blind feedback form about the lectures delivered by the resource personnel was collected from the participants. The options were poor, satisfactory, good, very good and excellent and the reason for such grading. The participants expressed their satisfaction about the quality of lectures delivered by the experts and the arrangements. After analysing the feedbacks, it was observed that 2% lectures were poor, 8% were satisfactory, 25% were good, 35% were very good and 30% were excellent. Hence 90% of the lectures were good and about. Thus it shows that the participants are benefited by attending this Refresher Course.

#### **PROGRAMME NO: 13**

#### Professional Development Programme (PDP) for Administrative Officers and Staff

The Internal Quality Assurance Cell (IQAC) and Faculty Development Centre (FDC), Tripura University organized a three days Professional Development Programme for Administrative Officers and Staff of Tripura University from 15<sup>th</sup> January to 17<sup>th</sup> January, 2021.

The notification was displayed in the Tripura University website as well as the same was circulated among all Officers and staff of the University for attending the programme.

On 15<sup>th</sup> January, 2017, the Inaugural Session was held. The programme was inaugurated by Professor Ganga Prasad Prasain, Hon'ble Vice-Chancellor, Tripura University. Welcome Address was given by Prof. Binod Chandra Tripathy, Director, IQAC of the University. Dr. Deepak Sharma, Registrar, Tripura University discussed on the importance of organizing such professional programme for the Officers and staff. Hon'ble Vice-Chancellor, Tripura University delivered the Presidential Address. The vote of thanks was given by Dr. Sabyasachi Dasgupta, Dean, Students' Welfare and Coordinator, NAAC, Tripura University. A total of around 315 Officers and staff participated in the programme which includes many Outsourcing and MRW staff for the first time.

A total of 4 resource persons from different organisations/institutions outside the Tripura University delivered lectures through online virtual mode. They were Dr. Ninad Jhala, Anand Institute of Social Work, Gujarat; Prof. W. Chandbabu Singh, Registrar, Manipur University; Mr. Nihaludding Siddiqui, Al-Falah University, Faridabad; Dr. Shobha G., Educator, Counselor, Nutritionist Wellness and Life Skills Coach, Bengaluru. The topics briefed by the resource persons in the programme are mentioned hereunder:

SI.	Name of the Resource	Topics delivered by the Resource Persons
No.	Person	
1	Dr. Ninand Jhala	Administrative Preparation for NAAC Visit
2	Prof. W. Chandbabu Singh	Aspects of Morale and Motivation of University Employees
3	Mr. Nihaludding Siddiqui	1) Suspension from the service, 2) Holding Departmental Inquiries
		University Administration, Office Procedures
		Noting, Drafting various forms of communication, preparation of agenda of
		important meetings and preparation of Minutes thereof
4	Dr. Sobha G.	Emotional Intelligence and Anger Management for Positive Work Environment

Besides, following Officers of the University delivered lecture on the following topics:

SI. No.	Name of the Officer	Name of the Topics
1	Sri M.M. Reang, Jt. Registrar	Reservation Policy & Roster
2	Dr. K.B. Jamatia, Jt. Registrar and Director (i/c), DDE	University Administration, Office Procedures
3	Sri Nirmal Reang, Deputy Registrar and Deputy Finance Officer (i/c)	Retirement Benefits
4	Dr. Abhijit Choudhuri, Assistant Registrar	A brief discussion on Right to Information (RTI) Act, 2005

During the break time, tea/refreshment/lunch was arranged for the participant. The Valedictory Session was held on 17<sup>th</sup> January, 2021. Before the programme was over, 'Certificate of Participation' was presented to all the participants. Also 'Certificate of Excellence' was given to 15 participants based on their performance in the programme.

At last, Valedictory Address was given by Prof. Alak Bhattacharya, Director (i/c), College Development Council, Tripura University.



Prof. M. M. Chaturvedi, Chief Guest, Prof. C. B. Majumder, Hon'ble Vice Chancellor(i/c), T. U., Prof. B. K. Datta, Director, FDC, TU, Dr. Deepak Sharma, Registrar, TU & Prof. Shyamal Das, Dean, Faculty of Arts and Commerce, TU lightening the lamp in the inaugural function of the Two Week Refresher Course held from 15<sup>th</sup> -28<sup>th</sup> March, 2021.



Prof. A. K. Saha, Deputy Director, FDC, T. U. addressing in the inaugural function of the Two Week Refresher Course held from 15<sup>th</sup> -28<sup>th</sup> March, 2021.



Distribute a certificate to a participant by the Prof. B. K. Datta, Director, FDC, TU



Group Photo of the participants with FDC members.

# Few Moments of the Professional Development Programme (PDP)



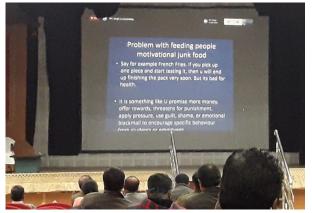
**Inaugural Session** 



Presidential Address delivered by Prof. Ganga Prasad Prasain



Lecture by Dr. Ninand Jhala



Lecture on 'Aspects of Morale and Motivation of University Employees'



Talk by Sri M.M. Reang

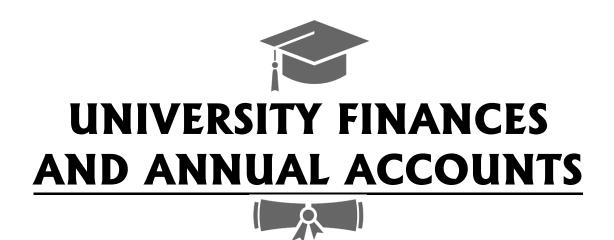


Talk by Dr. K.B. Jamatia





'Certificate of Participation' giving ceremony.





		(Ai	mount in Rupees)
Particulars	Schedule No.	Current Year	PreviousYear
INCOME			
ACADEMIC RECEIPTS	9	88,029,623.00	122,467,324.50
GRANTS/SUBSIDIES	10	775,024,185.80	664,179,980.25
INCOME FROM INVESTMENTS	11	33,241,912.44	23,281,782.37
INTEREST EARNED	12	2,656,874.00	5,384,741.00
OTHER INCOME	13	2,086,234.38	2,545,585.01
PRIOR PERIOD INCOME	14	815,210.00	-
TOTAL (A)		901,854,039.62	817,859,413.13
<u>EXPENDITURE</u>			
STAFF PAYMENT & BENIFITS (ESTABLISHMENT EXPENSES)	15	922,755,309.00	538,162,317.00
ACADEMIC EXPENSES	16	23,014,947.40	20,693,773.00
ADMINISTRATIVE & GENERAL EXPENSES	17	76,362,954.50	100,709,330.36
TRANSPORTATION EXPENSES	18	2,219,426.00	2,393,614.00
REPAIR & MAINTENANCE	19	6,467,642.00	2,133,940.00
FINANCE COST	20	24,420.43	87,005.89
OTHER EXPENSES	21	-	-
PRIOR PERIOD EXPENDITURE	22	-	-
DEPRECIATION	4	105,640,941.99	103,146,366.91
TOTAL (B)		1,136,485,641.32	767,326,347.16
Balances being excess of Income over Expenditure (A-B)		-234,631,601.70	50,533,065.97
Transfer To/From Designated Fund			
Building Fund			
Balance Being Surplus/(Deficit) Carried to Capital Fund		-234,631,601.70	50,533,065.97
Significant Accounting Policies	23		
Contingent Liabilities & Notes to Accounts	24		

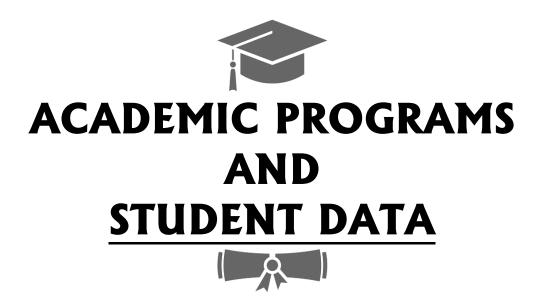
#### Receipts and Payments Account for the year ended 31st March, 2021

					(Amount in Rupees)
Receipts	Current Year	Previous Year	Payments	Current Year	Previous Year
I. Opening Balances			I. Expenses		
a) Cash in Hand			<ul><li>a) Establishment Expenses</li><li>b) Academic Expenses</li></ul>	463,072,823.00	515,904,777.00
b) Bank Balances	217 (02 (01 42	244 446 055 04	, '	21,536,006.40	20,087,336.00
I) In Savings Accounts     II) In Current Accounts	317,693,601.43 3,104,021.00	344,446,055.04 3,104,021.00	<ul><li>c) Administrative Expenses</li><li>d) Transportation Expenses</li></ul>	66,190,320.00 1,708,437.00	80,627,475.36 2,234,802.00
III) In Deposit Accounts	502,768,966.85	414,313,278.85	e) Repair & Maintenance	5,503,135.00	1,935,191.00
	302,7 00,300.03	111,013,270.03			
II. Grants Received  a) From Government of	567,822,935.00	787,350,768.00	<ul><li>f) Finance Cost</li><li>g) Prior Period Expenses</li></ul>	24,420.43	87,005.89
India (Including UGC)	307,022,333.00	707,550,700.00	g) Thorrellou Expenses		
b) From State Government			II. Payments against		-
			Earmarked / Endowment		
-) Fuero Other Comme			Funds	26 404 602 70	24.475.027.66
c) From Other Sources			III. Payments against Sponsored Projects /	26,184,693.70	24,175,827.66
			Schemes		
III. Academic Receipts	93,856,823.00	130,213,258.50	IV. Payments against	2,523,994.00	5,226,951.00
			Sponsored Fellowships /		
IV Possints against			Scholarships V. Investments and		
IV. Receipts against Earmarked /			Deposits Made		
Endowment Funds			<u> </u>		
V. Receipts against	27,344,151.00	40,874,235.00	a) Out of Earmarked /		
Sponsored Projects /			Endowment Funds		
Schemes VI. Receipts against	3,569,246.00	1,651,562.00	b) Out of Funds		
Sponsored Fellowships	3,303,240.00	1,031,302.00	(Investments-Others)		
/ Scholarships			,		
VII. <u>Income from</u>			VI. Term Deposits with		
Investments a) From Earmarked /	129,577.00	114,810.00	Scheduled Banks VII. Expenditure on Fixed		
Edowment Funds	123,377.00	114,810.00	Assets and Capital Work		
b) Other Investments			in Progress & Advances		
VIII. Interest Received			a) Fixed Assets	58,742,839.00	25,672,287.31
a) Bank Deposits	10,031,726.84	15,353,001.69	b) Capital Work in Progress	23,624,904.00	
b) Loans & Advances			c) Advance on Capital Account	31,000,000.00	82,500,000.00
c) Savings Bank Accounts	7,233,783.00	5,384,741.00	VIII. Other Payments including	112,459,323.50	115,017,927.00
IX. Investments Encashed			Statutory Payments  IX. Refund of Grants	14,750,000.00	
X. Term Deposits with			X. Deposits & Advances	7,881,778.00	59,539,895.00
Scheduled Banks			A Deposits a navances	7,001,770.00	33,333,633.60
Encashed					
XI. Other Income including	1,057,214.38	2,545,585.01	XI. Other Payments	570,183,835.89	449,965,950.00
Prior Period Income XII. Deposits & Advances	12,456,791.00	11,487,646.10	XII. Closing Balances		
XIII. Miscellaneous	7,377,975.88	10,899,929.00	=		
Receipts including	1,311,313.88	10,055,525.00	a) Cash in Hand		
Statutory Receipts					
XIV. Any Other Receipts	664,447,615.23	438,803,123.31	b) Bank Balances		
			I) In Savings Accounts	284,378,306.84	317,693,601.43
			II) In Current Accounts	3,104,021.00	3,104,021.00
			III) In Deposit Accounts	526,025,589.85	502,768,966.85
Total	2,21,88,94,427.61	2,20,65,42,014.50	Total	2,21,88,94,427.61	2,20,65,42,014.50



#### Balance Sheet as at 31st March, 2021

		(	'Amount in Rupees)
Particulars	Sh No.	Current Year	Previous Year
SOURCES OF FUND			
CORPUS FUND/CAPITAL FUND	1	1,939,023,963.00	1,831,126,779.30
DESIGNATED/EARMARKED/ENDOWMENT FUNDS	2	3,282,207.98	3,062,590.98
CURRENT LIABILITIES AND PROVISIONS	3	1,960,124,067.86	2,154,277,306.29
TOTAL		3,902,430,238.84	3,988,466,676.57
APPLICATION OF FUND			
FIXED ASSET	4		
Tangible Assets		2,131,808,375.22	2,140,719,112.40
Intangible Assets		9,542,437.19	2,544,139.00
Capital Work in Progress		693,918,156.00	359,979,966.00
INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS	5		
Long Term		1,223,344.85	1,196,394.85
Short Term		-	-
INVESTMENTS - OTHERS	6	-	-
CURRENT ASSETS	7	812,284,572.84	822,370,194.43
LOANS/ADVANCES & DEPOSITS	8	253,653,352.74	661,656,869.89
TOTAL		3,902,430,238.84	3,988,466,676.57
Significant Accounting Policies	23	-	
Contingent Liabilities & Notes to Accounts	24	-	



# STUDENT STRENGTH (1<sup>ST</sup> SEMESTER)

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	Engg. Comp. Sc. & Engg.

Total Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Female Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Male Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outside State	0	9	11	က	0			_	0	2	က	0	0	0	2
Female Outside State	0	2	2	2	0	0	0	0	0	4	-	0	0	0	0
Male Outside State	0	4	6	-	0	-	~	~	0	-	2	0	0	0	2
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GW9 IstoT	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Female PWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Male PWD	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
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Male OBC	_	3	5	-	0	2	0	2	2		2	-	0	0	-
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OS əlsM	0	5	0	က	-	-	0	0		2	0	-	0	2	0
AU IstoT	0	13	13	4	2	7	4	∞	က	22	5	4	0	2	2
Female UR	0	7	7	2	2	4	2	2	2	12	4	0	0	2	0
AU əlsM	0	9	9	2	0	8	2	က	-	10	<b>1</b> -1	4	0	3	2
lstoT	09	48	28	31	က	20	9	15	7	91	17	16	0	7	9
Female	59	26	10	20	2	10	4	80	.65	28	9	0	0	2	2
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Ргодгатте	M.A. in Kokborok	M. A. / M. Sc. in Economics	Ph.D. in Economics	M.A. in Education	Ph.D. in Education	M. Tech. in Electrical Engg.	Ph.D. in Electrical Engineering	M. Tech. in Electronics & Communication Engg.	Ph.D. in Electronics & Communication Engg.	M.A. in English	Ph.D. in English	Film & Video Production (B. Voc)	PG Diploma in Translation (Hindi)	M. Fine Arts DP	M. Fine Arts MS
Department Name	Department of Kokborok	Economics	Economics	Education	Education	Electrical Engineering	Electrical Engineering	Electronics Engineering	Electronics Engineering	English	English	Film & Video Production(B.V oc)	Film & Video Production(B.V oc)	Fine Arts	Fine Arts
ON 7S	18	19	20	21	22	23	24	25	26	27	78	59	30	31	32

Total Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Female Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Male Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Male Outside State	0	0	0	<u>←</u>	7	0	က	0	0	-	0	0	-	0	e
SW3 IstoT	0	-	0	0	0	0	0	0	0	0	3	0	9	0	2
Female EWS	0	0	0	0	0	0	0	0	0	0	0	0	က	0	2
Male EWS	0	-	0	0	0	0	0	0	0	0	3	0	က	0	0
DW9 IstoT	0	0	0	-	0	0	-	0	0	0	0	0	0	0	0
Female PWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DW9 elsM	0	0	0	-	0	0	-	0	0	0	0	0	0	0	0
Total OBC	-	2	2	5	3	3	5	0	10	4	4	-	23	2	-
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Female UR	-	2	2	9	0	2	က	0	10	က	9	က	56	-	-
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lstoT	3	18	15	37	14	23	12	0	99	17	34	8	187	9	6
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Male	2	41	თ	18	10	7	9	0	27	80	13	က	89	3	9
Programme	Ph.D. in Fine Arts	M.Sc. in Forestry & Bio-diversity	Ph.D. in Forestry & Biodiversity	M. A. / M. Sc. in Geography and Disaster Management	Ph.D. in Geography and Disaster Management	M.A. in Hindi	Ph.D. in Hindi	M.A. in ARCHEAOLOGY AND ANCIENT HISTORY	M.A. in History	Ph.D. in History	M.Sc. in Human Physiology	Ph.D. in Human Physiology	IMD	M. Tech. in IT	M.C.A.
Department Name	Fine Arts	Forestry & Bio- diversity	Forestry & Bio- diversity	Geography & Disaster Management	Geography & Disaster Management	Hindi	Hindi	History	History	History	Human Physiology	Human Physiology	IMD	П	Ŀ
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Total Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Female Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mgiero Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outside State	က	, <del></del>	-	0	-	0	-	2	-	0	0	0	0	-
Female Outside State	-	-	<del>-</del>	0	-	0	·	<del>-</del>	-	0	0	0	0	0
Male Outside State	2	0	0	0	0	0	0	<del>-</del>	0	0	0	0	0	-
SW3 IstoT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Female EWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Male EWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>GW9 IstoT</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Female PWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Male PWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Ргодгатте	Ph.D. in Information Technology	M.A. in Journalism & Mass Communication	Ph.D. in Journalism & Mass Communication	L.L.M	Ph.D. in Law	M.A. in LIBERAL ARTS	Bachelor Of Library & Information Science	Master of Library & Information Science	Ph.D. in Library & Information Science	Diploma in Kokborok	M.A in Linguistics & Tribal Language	Ph.D. in Kokborok	Ph.D. in Linguistics & Tribal Language	M. Tech. in Material Science Engg.
Department Name	П	Journalism & Mass Com	Journalism & Mass Com	Law	Law	LIBERAL ARTS	Library Science	Library Science	Library Science	Linguistics & Tribal Languages	οX	Linguistics & Tribal Languages	Linguistics & Tribal Languages	Material Science Engineering
ON 7S	48	49	90	51	52	53	54	55	56	25	58	59	09	61

ngiero I Isto T	0	0	0		0	0	0	0	0	0	0	0	0	0
Female Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Male Foreign	0	0	0	-	0	0	0	0	0	0	0	0	0	0
Total Outside State	<b>.</b>	5	2	12	3	0	0	0	0	0	0	8	-	0
Female Outside State	0	0	0	11	2	0	0	0	0	0	0	3	0	0
Male Outside State		5	2	-	-	0	0	0	0	0	0	5	( <b>-</b>	0
SW3 IstoT	0	5	\S_{\sigma}^{\gamma}	-	0	1	0	0	0	0	0	0	0	0
Female EWS	0	0	0	-	0	0	0	0	0	0	0	0	0	0
Male EWS	0	5	-	0	0	1	0	0	0	0	0	0	0	0
GW9 IstoT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Female PWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Male PWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total OBC	-	17	3	3	-	3	1	2	4	2	0	1	3	10
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TS əlsM	-	က	0	4	-	က	0	2	2	0	0	0	0	14
JS IstoT	2	12	4	4	<b>5</b> -0	3	0	0	2	0	0	-	-	9
Female SC	0	-	0	4	-	2	0	0	2	0	0	-	0	4
OS alsM	2	Ξ	4	0	0	1	0	0	0	0	0	0	-	2
AU listoT	2	16	0	10	9	14	2	က	7	3	0	80	2	15
Female UR	-	9	0	თ	4	6	( <del>***</del> *	က	9	2	0	2	-	10
AU əlsM	-	10	0		2	5	-	0	-	-	0	9	-	5
lstoT	9	53	6	24	6	24	3	Ξ	18	9	0	13	9	29
Female	<u>-</u>	10	2	18	9	13	-	∞	41	4	0	7	-	45
Male	5	43	7	9	8	11	2	3	4	2	0	9	2	22
əmmsıgor¶	Ph.D. in Material Science Engg.	M.Sc. in Mathematics	Ph.D. in Mathematics	M.Sc. in Microbiology	Ph.D. in Microbiology	M.Sc. in Molecular Biology & Bioinformatics	Ph.D. in Molecular Biology & Bioinformatics	M. Music Dance	M. Music Vocal	Ph.D. in Music	M.A. IN PERFORMING ARTS (DRAMATICS)	M.Pharm.	Ph.D. in Pharmacy	M.A. in Philosophy
Department Name	Material Science Engineering	Mathematics	Mathematics	Microbiology	Microbiology	Molecular Biology & Bioinformatics	Molecular Biology & Bioinformatics	Music	Music	Music	Performing Arts	Pharmacy	Pharmacy	Philosophy
ON 7S	62	63	49	65	99	29	89	69	20	71	72	73	74	75
·				÷		,			ś	L	·			



Total Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Female Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Male Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State ShietuO latoT	~	13	∞	6	2	9	=	0	0	<b>-</b>	2	2	<b>—</b>	0	0
Female Outside State	0	2	0	6	_	2	9	0	0	_	က	0	0	0	0
Male Outside State	10/10/10	777000	- &	9	_		2	0	0	0	2	2		0	0
1 (1940) (1960) (1960) (1960) (1960)	, <b>-</b>	=													
SW3 lstoT	0	_	0	4	0	က	_	0	0	0	0	0		0	0
Female EWS	0	_	0	0	0	2	_	0	0	0	0	0	_	0	0
Male EWS	0	0	0	4	0	2 — 2	0	0	0	0	0	0	2	0	0
GW9 IstoT	0	0	0	0	0	_	0	0	0	0	0	0	0	0	0
Female PWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Male PWD	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0
DBO IstoT	2	∞	2	9	က	10	0	0	0	က	က	9	2	— ·	0
Female OBC	<del>-</del>	<del>5-</del>	0	2	0	9	0	0	0	3	2	-	-	<b>-</b>	0
Male OBC	1	7	2	4	က	4	0	0	0	0	-	5	1	0	0
IstoTS IstoT	3	14	4	80	0	46	22	-	0	2	2	8	22	0	0
Temale ST	0	2	0	3	0	22	-	0	0	2	-	-	14	0	0
T2 əlsM	ဗ	თ	4	2	0	24	4	7	0	0	1	2	∞	0	0
OS IstoT	4	7	က	2	-	24	2	0	0	е	0	τ-,	2		0
DS əlsmə7	0	2	0	-	0	7	2	0	0	2	0	0	1	-	0
OS alsM	4	5	က	4	-	13	0	0	0	-	0	-	-	0	0
AU IstoT	2	4	2	9	6	22	∞	2	-	9	4	5	8	က	-
Female UR	0	0	-	4	က	15	ю	-	-	9	2	2	7	2	<del>-</del>
AU əlsM	2	4	4	2	9	7	22	<del></del>	0	0	2	ю	- T	<b>←</b> j	0
lstoT	11	34	41	59	13	105	16	က	-	17	6	15	37	5	<del>-</del>
Female	-	0	-	9	က	26	2	-	, <del>-</del>	16	2	4	24	4	-
Male	10	25	13	19	10	49	6	2	0	-	4	=	13	-	0
Programme	Ph.D. in Philosophy	Master of Physical Education	Ph.D. in Physical Education	M.Sc. in Physics	Ph.D. in Physics	M.A. in Political Science	Ph.D. in Political Science	Ph.D. in Women's Studies	Women's Studies	M.A. in Psychology	Ph.D. in Psychology	Rubber Technology ( B. Voc.)	Master of Rural studies	Ph.D. in MRMD	Ph.D. in Rural Studies
Department Name	Philosophy	Physical Education	Physical Education	Physics	Physics	Political Science	Political Science	Political Science	Political Science	Psychology	Psychology	Rubber Technology(B.V oc)	Rural Mang. & Development	Rural Mang. & Development	Rural Mang. & Development
ON 7S	92	11	78	6/	8	8	82	83	84	85	98	87	88	88	06

uGioro :	200000			2000					v 34404	200			Tables.		5.55		Tage:		-
Total Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Female Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Male Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
State State State	0	2	0	-	0	0	0	0	0	0	0	2	0	2	0	0	11	0	263
Female Outside State	0	-	0	-	0	0	0	0	0	0	0	0	0	2	0	0	8	0	131
etste State Outside State	0	-	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3	0	132
SW3 IstoT	0	0	0	5	0	0	0	0	0	0	0	0	0	-	0	0	2	0	61
Female EWS	0	0	0	3	0	0	0	0	0	0	0	0	0	· *	0	0	l	0	56
Male EWS	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	32
<b>GW9 I</b> stoT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	9
Female PWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Male PWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	8
Total OBC	6	0	0	12	0	0	0	0	0	0		2	0	2	0	0	3	2	330
Female OBC	7	0	0	4	0	0	0	0	0	0	-	1	0	2	0	0	2	2	178
Male OBC	2	0	0	∞	0	0	0	0	0	0	0	1	0	0	0	0	1	0	152
IstoTS IstoT	11	0	0	15	0	0	0	0	-	0	10	33	3	-	0	0	8	0	190
Temale ST	10	0	0	10	0	0	0	0	-	0	80	24	2	0	0	0	9	0	432
TS əlsM	-	0	0	5	0	0	0	0	0	0	2	6	-	-	0	0	2	0	358
OS IstoT	7	3	0	6	0	0	0	0	0	0	- <del>-</del>	1	y <b>-</b> -y	-	0	0	2	0	339
DS əlsmə7	4	က	0	4	0	0	0	0	0	0		0	1	0	0	0	1	0	165
OS əlsM	3	0	0	5	0	0	0	0	0	0	0	1	0	•	0	0	1	0	174
AU latoT	10	-	0	13	0	0	0	0	0	က	2	3	0	2	0	0	9	7	641
AU əlsmə7	7	0	0	∞	0	0	0	0	0	·-		1	0	2	0	0	3	2	340
AU əlsM	3	<del></del>	0	5	0	0	0	0	0	2	· <del></del>	2	0	0	0	0	3	2	301
IstoT	37	4	0	54	0	0	0	0	-	ო	14	39	4	7	0	0	21	6	2166
Female	28	m	0	59	0	0	0	0	-	· <del>-</del>	7	56	3	2	0	0	13	7	1141
Male	6	-	0	25	0	0	0	0	0	2	е	13	-	2	0	0	8	2	1025
Programme	M.A. in Sanskrit	Ph.D. in Sanskrit	B.A./B.Sc B.Ed. in Geography	B.Ed.	B.Sc B.Ed. in Mathematics	BA-B.Ed. in English	BA-B.Ed. in History	BA-B.Ed. in Political Science	Ph.D. in Social Exclusion & Inclusion Policy	Ph.D. in Tribal Studies & Ethnics (CSSEIP)	Tribal & Ethnic Studies	M.A. in Sociology	Ph.D. in Sociology	M.Sc. in Statistics	Ph.D. in Statistics	M.A. in Tourism Administration	M.Sc. in Zoology	Ph.D. in Zoology	)TAL
Department Name	Sanskrit	Sanskrit	School of Education	School of Education	School of Education	School of Education	School of Education		Social Exclusion & Inclusion Centre	Social Exclusion & Inclusion Centre	Social Exclusion & Inclusion Centre	Sociology	Sociology	Statistics	Statistics	TOURISM	Zoology	Zoology	GRAND TOTAL
ON 7S	91	92	93	94	92	96	97	86	66	100	101	102	103	104	105	106	107	108	
							1												



Total Foreign	V,,,,,,				55,1637		No. le Ce	rigger	V.10		900			2000		77.00	29417
Female Foreign	0	-	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Male Foreign	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State State Total Outside	-	9	9	2	, <b>-</b> 12	7	4	က	0	29	-	0	0	2	9	0	0
Female Outside State	0	4	28	-	0	-	0	-	0	14	-	0	0	4	2	0	0
Asle Outside State	-	2	12	-	-	9	4	2	0	15	0	0	0	-	4	0	0
SW3 IstoT	-	0	80	0	-	0	0	0	0	4	-	0	0	-	2	-	0
Female EWS	-	0	4	0	-	0	0	0	0	3	0	0	0	0	0	0	0
Male EWS	0	0	4	0	0	0	0	0	0	-	-	0	0	-	2	-	0
DW9 lstoT	2	0	0	-	-	-	0	0	0	2	0	0	0	-	0	0	0
Female PWD	2	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0
Male PWD	0	0	0	-	-	1	0	0	0	-	0	0	0	1	0	0	0
Jao IstoT	31	4	14	7	5	17	4	2	1	13	9	-	2	6	2	-	8
Jao elsme7	25	2	6	2	ო	6	0	0	0	9	2	- 1	0	4	0	-	0
Male OBC	9	2	2	5	2	œ	4	2	<u>\$</u>	7	4	0	2	2	2	0	3
IstoT2 IstoT	48	2	41	2	41	30	0	0	0	6	0	2	2	43	7	0	0
T2 əlsmə7	37	0	12	2	က	12	0	0	0	3	0	2	-	19	က	0	0
TS əlsM	=	2	2	က	Ξ	18	0	0	0	9	0	0	4	24	4	0	0
OS latoT	09	4	6	5	ო	19	2	· <del>~</del>	1	13	4	2	-	24	2	œ	ъ
DS əlsmə7	43	က	9	က	0	5	-	0	0	3	-	0	0	4	-	5	-
OS alsM	17	٠,-	က	2	ო	14	· <del>-</del>	-	-	10	က	2	-	70	4	ო	2
AU lstoT	22	10	18	<b>∞</b>	21	42	80	6	0	27	7	7	=	38	4	15	4
Female UR	43	9	13	4	7	1	2	က	0	15	4	0	2	10	-	6	-
AU əlsM	4	4	5	4	41	31	9	0	0	12	3	7	9	28	က	9	ю
IstoT	197	21	63	25	44	110	14	9	2	99	18	12	19	115	20	25	10
Female	149	7	4	7	4	39	က	6	0	30	7	က	9	37	5	15	2
Male	48	10	19	14	30	71	£	3	2	36	7	6	13	78	15	10	8
Programme	M.A. in Bengali	Ph.D. in Bengali	M.Sc. in Botany	Ph.D. in Botany	B.B.A.	M.B.A.	Ph.D. in Business Management	M. Tech. in Chemical & Polymer Engg.	Ph.D. in Chemical & Polymer Engg.	M.Sc. in Chemistry	Ph.D. in Chemistry	Finance and Taxation	IMD in Commerce	M.Com.	Ph.D. in Commerce	M. Tech. in Comp. Sc. & Engg.	Ph.D. in Comp. Sc. & Engg.
Department Name	Bengali	Bengali	Botany	Botany	Business Management	Business Management	Business Management	Chemical & Polymer Engineering	Chemical & Polymer Engineering	Chemistry	Chemistry	Commerce	Commerce	Commerce	Commerce	Comp. Sc. & Engg.	Comp. Sc. & Engg.
ON 7S	-	2	က	4	5	9	7	8	6	10	1	12	13	14	15	16	17

Total Foreign	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0
Female Foreign	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0
Male Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outside State	0	10	41	8	0	3	_	_	2	2	4	0	0	0	2
Female Outside State	0	4	2	2	0	0	0	0	0	4	2	0	0	0	0
Male Outside State	233	***************************************	in equals			3		Alteria Stantis	1877	,,,,,,,,,,,		0	4		
Total EWS	0	9	12	-	0	*****	1	_	- 2	-	2	****	0	0	2
Female EWS	0	е е	2	2	0	0	0		0	_	0	0	0	0	0
Male EWS	0	0	0	-	0	0	0	0	0	_	0	0	0	0	0
DWG IstoT	0	ю	- 2	-	0	0	0	-	0	0	0	0	0	0	0
Female PWD	0	_	0	-	0	0	0	0	0	0	0	0	0	-	0
Male PWD	0	0	0	_	0	0	0	0	0	0	0	0	0		0
Total OBC	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0
5 A.A. A. A	2	12	80	13	0	9	0	9	2	13	9	10	0	-	2
Jao elsmeT	-	5	2	6	0	2	0	e	0	7	4	0	0	0	0
Male OBC	-	7	9	4	0	4	0	က	2	9	2	10	0	-	2
lstoT2 lstoT	117	17	80	16	0	∞	0	-	0	78	ი	70	0	0	-
Female ST	22	12	-	10	0	2	0	0	0	44	4	<del>-</del>	0	0	0
TS əlsM	09	5	7	9	0	6	0	-	0	34	5	19	0	0	1
DS IstoT	0	12	0	12	-	5	2	2	2	25	2	5	0	4	2
DS əlsmə٦	0	5	0	7	0	2	2	2	-	23	2	2	0	0	2
OS əlsM	0	7	0	5	-	3	0	0	-	2	0	က	0	4	0
AU IstoT	0	29	14	1	2	13	4	12	5	38	15	10	0	10	8
Female UR	0	17	7	7	2	80	2	7	2	22	10	0	0	4	0
AU əlsM	0	12	7	4	0	5	2	5	က	16	2	10	0	9	8
IstoT	119	73	33	55	က	33	9	22	· 6	155	32	45	0	15	13
Female	58	39	10	35	2	14	4	12	6	26	20	က	0	4	2
əlsM	61	34	23	20	-	19	2	10	9	28	12	42	0	11	11
Ргодгатте	M.A. in Kokborok	M. A. / M. Sc. in Economics	Ph.D. in Economics	M.A. in Education	Ph.D. in Education	M. Tech. in Electrical Engg.	Ph.D. in Electrical Engineering	M. Tech. in Electronics & Communication Engg.	Ph.D. in Electronics & Communication Engg.	M.A. in English	Ph.D. in English	Film & Video Production (B. Voc)	PG Diploma in Translation (Hindi)	M. Fine Arts DP	M. Fine Arts MS
Department Name	Department of Kokborok	Economics	Economics	Education	Education	Electrical Engineering	Electrical Engineering	Electronics Engineering	Electronics Engineering	English	English	Film & Video Production (B.Voc)	Film & Video Production(B. Voc)	Fine Arts	Fine Arts
ON 7S	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

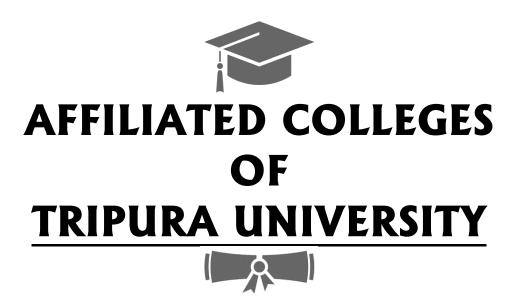
Total Foreign	0	0	0	0	0	0	0	0	0	0	0	0	8	0	-
Female Foreign	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Male Foreign	0	0	0	0	0	0	0	0	0	0	0	0	-	0	1
State State State	0	2	е	14	6	0	<b>о</b>	0	7	8	0	_	2	0	2
Female Outside State	0	2	8	· Ю	2	0	2	0	9	9	0	0	2	0	_
etate ShistuO elaM	0	2	0	11	2	0	4	0	_	2	0		3	0	4
SW3 listoT	0	-	0	0		0	0	0	0	0	<sub>0</sub>	0		0	2 '
Female EWS	0	0	0	0		0	0	0	0	0	0	0	С	0	2
Male EWS	0		0	0	0	0	0	0	0	0	က	0	4	0	0
GW9 IstoT	0	1	0	<del>-</del>	0	0	_	0	0	0	<b>←</b>	0	0	0	0
Female PWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Male PWD	0		0	-	0	0	-	0	0	0	<u></u>	0	0	0	0
Total OBC	2	2	2	8	3	4	9		14	2	∞	ю	51	2	4
Female OBC	-	3	2	8		က	2	0	=	4	ю	-	28	-	0
Male OBC	-	2	0	2	2	- <del>-</del>	4	<del>-</del>	ю	-	2	2	23	-	4
IstoTS IstoT	0	16	က	25	4	19	က	Ξ	65	∞	18	0	289	-	-
TS əlsmə7	0	7	က	13	က	4	2	7	36	2	13	0	139	-	0
TS əlsM	0	6	0	12	-	2	-	4	29	ю	2	0	150	0	-
OS IstoT	-	4	3	41	2	က	-	0	25	2	13	-	62	-	4
DS əlsmə7	0	0	0	9	<del>-</del>	· <del>-</del>	0	0	12	0	7	<del>-</del>	34	0	0
OS əlsM	-	4	က	80	-	2		0	13	2	9	0	28	-	4
AU IstoT	2	14	-	15	2	80	2	· -	34	∞	23	7	122	2	8
Female UR	-	7	2	7	0	4	4	-	17	4	15	က	72	-	3
AU əlsM	-	7	9	80	2	4	-	0	17	4	∞	4	20	-	5
IstoT	2	40	16	62	16	34	15	13	138	23	65	7	534	9	20
Female	2	17	7	29	9	22	80	80	9/	13	38	2	278	3	5
əlsM	က	23	6	33	10	12	7	2	62	9	27	9	256	е	15
əmmsıgor¶	Ph.D. in Fine Arts	M.Sc. in Forestry & Bio-diversity	Ph.D. in Forestry & Biodiversity	M. A. / M. So. in Geography and Disaster Management	Ph.D. in Geography and Disaster Management	M.A. in Hindi	Ph.D. in Hindi	M.A. in ARCHEAOLOGY AND ANCIENT HISTORY	M.A. in History	Ph.D. in History	M.Sc. in Human Physiology	Ph.D. in Human Physiology	IMD	M. Tech. in IT	M.C.A.
Department Name	Fine Arts	Forestry & Bio-diversity	Forestry & Bio-diversity	Geography & Disaster Management	Geography & Disaster Management	Hindi	Hindi	History	History	History	Human Physiology	Human Physiology	IMD	⊥	П
ON TS	33	34	35	36	37	38	39	04	41	42	43	44	45	46	47

												1		
Total Foreign	0	-	0	0	0	0	0	0	0	0	0	0	0	0
Female Foreign	0	-	0	0	0	0	0	0	0	0	0	0	0	0
Male Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outside State	က	-	7	4	-	0	_	2	·	0	0	0	0	<u>,</u>
Female Outside State	-	-	7	2	-	0	-	-	-	0	0	0	0	0
Male Outside State	2	0	0	2	0	0	0	-	0	0	0	0	0	1
SW3 lstoT	0	0	0	-	0	0	0	0	0	0	0	0	0	0
Female EWS	0	0	0	-	0	0	0	0	0	0	0	0	0	0
Male EWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>GW9</b> IstoT	0	0	0	0	0	0	0	0	0	0	0	0	-	0
Female PWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Male PWD	0	0	0	0	0	0	0	0	0	0	0	0	<del>.</del>	0
DBO listoT	0	ю	0	6	0	<del>5</del>	4	2	0	0	0	0	-	2
Jao alsma7	0	-	0	4	0	-	4	-	0	0	0	0	-	1
DBO əlsM	0	2	0	2	0	0	0		0	0	0	0	0	-
Total STotal	0	5	-	12	0	4	6	7	2	23	35	4	5	0
Female ST	0	ю		6	0	4	9	9	0	13	70	0	2	0
TS əlsM	0	2	0	က	0	0	က	2	2	6	15	4	က	0
OS latoT	9	ю	0	-	-	0	-	2	0	0	0	0	0	2
OS elsme7	က	2	0	-	-	0	0		0	0	0	0	0	1
OS əlsM	က	-	0	0	0	0		-	- 0 0		0	0	0	
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lstoT	10	20	4	35	-	7	16	19	9	23	35	4	7	15
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Male	7	80	-	1	0	-	5	80	4	10	15	4	4	10
Programme	Ph.D. in Information Technology	M.A. in Journalism & Mass Communication	Ph.D. in Journalism & Mass Communication	L.L.M	Ph.D. in Law	M.A. in LIBERAL ARTS	Bachelor Of Library & Information Science	Master of Library & Information Science	Ph.D. in Library & Information Science	Diploma in Kokborok	M.A in Linguistics & Tribal Language	Ph.D. in Kokborok	Ph.D. in Linguistics & Tribal Language	M. Tech. in Material Science Engg.
Department Name	E	Journalism & Mass Com	Journalism & Mass Com	Law	Law	LIBERAL ARTS	Library Science	Library Science	Library Science	Linguistics & Tribal Languages	Linguistics & Tribal Languages	Linguistics & Tribal Languages	Linguistics & Tribal Languages	Material Science Engineering
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1		0	-	-	21	က	0	0	0	2	0	, <del>-</del>	က	0	0
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## Female PWD    13   13   14   15   15   15   15   15   15   15		0	5	2	2	0	-	0	0	0	0	0	0	0	0
## Female DKD  ## Fem	Female EWS	0	0	0	2	0	0	0	0	0	0	0	0	0	0
Hemale DMD   Hem	Male EWS	0	5	2	0	0	-	0	0	0	0	0	0	0	0
Male UK	DWG IstoT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Male UR	Female PWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maie UR   Female UR   Female SC   Female	Male PWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Ph.D. ir Science M.Sc. ii Mathen in Mathen in Mathen in Microbi Microbi Microbi Microbi Microbi Microbi Microbi Microbi Microbi Biology Bioinfor Ph.D. ir Biology Bioinfor M. Mus M. Mus M. Mus M. Mus M. Mus M. M. Mus M. M. Mus M.	Ргодгатте	Ph.D. in Material Science Engg.	M.Sc. in Mathematics	Ph.D. in Mathematics	M.Sc. in Microbiology	Ph.D. in Microbiology	M.Sc. in Molecular Biology & Bioinformatics	Ph.D. in Molecular Biology & Bioinformatics	M. Music Dance	M. Music Vocal	Ph.D. in Music	M.A. IN PERFORMING ARTS (DRAMATICS)	M.Pharm.	Ph.D. in Pharmacy	M.A. in Philosophy
Matternal Science Engineering Matternal Science Engineering Matthematics Microbiology Microbiology Microbiology & Bioinformatics Molecular Biology & Bioinformatics Music Music Music Pharmacy Pharmacy Pharmacy Philosophy	Department Name	Material Science Engineering	Mathematics	Mathematics	Microbiology	Microbiology	Molecular Biology & Bioinformatics	Molecular Biology & Bioinformatics	Music	Music	Music	Performing Arts	Pharmacy	Pharmacy	Philosophy
ON JS 29 89 89 69 67 12 22 12 42 45	ON 7S	62	63	64	65	99	29	89	69	70	71	72	73	74	75

Total Foreign	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0
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Female EWS	0	-	0	2	0	2	-	0	0	0	0	0	-	0	0
Male EWS	0	0	0	5	0	-	0	0	0	0	0	0	2	0	0
DW9 IstoT	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0
Female PWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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9mms1go1¶	Ph.D. in Philosophy	Master of Physical Education	Ph.D. in Physical Education	M.Sc. in Physics	Ph.D. in Physics	M.A. in Political Science	Ph.D. in Political Science	Ph.D. in Women's Studies	Women's Studies	M.A. in Psychology	Ph.D. in Psychology	Rubber Technology (B. Voc.)	Master of Rural studies	Ph.D. in MRMD	Ph.D. in Rural Studies
Department Name	Philosophy	Physical Education	Physical Education	Physics	Physics	Political Science	Political Science	Political Science	Political Science	Psychology	Psychology	Rubber Technology (B.Voc)	Rural Mang. & Development	Rural Mang. & Development	Rural Mang. & Development
ON TS	9/	11	78	79	8	18	82	83	84	82	98	87	88	68	06
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Total Foreign	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	12
Female Foreign	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	<b>∞</b>
Male Foreign	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total Outside State	-	က	-	-	0	0	0	0	0	0	0	4	0	2	0	0	24	-	431
Female Outside State	0	-	0	-	0	0	0	0	0	0	0	-	0	2	0	0	16	-	207
Aste Outside State	-	2	-	0	0	0	0	0	0	0	0	3	0	8	0	0	∞	0	224
Total EWS	0	0	0	12	0	0	0	0	0	0	0	0	0	-	0	0	4	0	82
Female EWS	0	0	0	9	0	0	0	0	0	0	0	0	0	-	0	0	-	0	35
Male EWS	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	m	0	20
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Male PWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	14
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AlsM	16	2	7	52	15	9	7	4	0	2	es .	18	2	15	2	15	21	က	1985
Programme	M.A. in Sanskrit	Ph.D. in Sanskrit	B.A./B.Sc B.Ed. in Geography	B.Ed.	B.Sc B.Ed. in Mathematics	BA-B.Ed. in English	BA-B.Ed. in History	BA-B.Ed. in Political Science	Ph.D. in Social Exclusion & Inclusion Policy	Ph.D. in Tribal Studies & Ethnics (CSSEIP)	Tribal & Ethnic Studies	M.A. in Sociology	Ph.D. in Sociology	M.Sc. in Statistics	Ph.D. in Statistics	M.A. in TOURISM ADMINISTRATION	M.Sc. in Zoology	Ph.D. in Zoology	TOTAL
Department Name	Sanskrit	Sanskrit	School of Education	School of Education	School of Education	School of Education	School of Education	School of Education	Social Exclusion & Inclusion Centre	Social Exclusion & Inclusion Centre	Social Exclusion & Inclusion Centre	Sociology	Sociology	Statistics	Statistics	TOURISM	Zoology	Zoology	GRAND TOTAL
ON TS	91	92	93	98	95	96	26	86	66	100	101	102	103	401	105	106	107	108	1



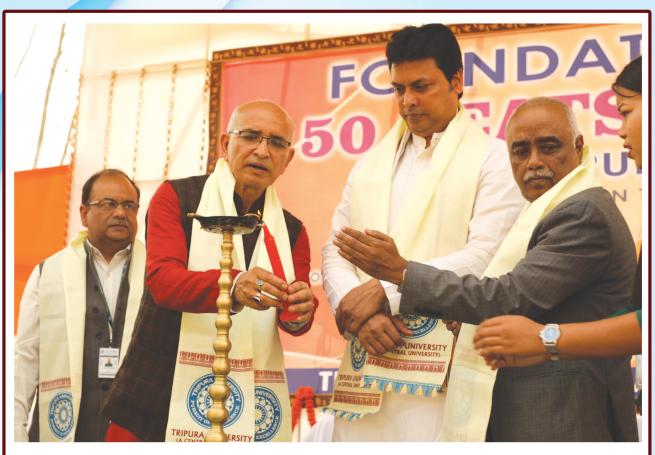
## **Affiliated General Degree Colleges of Tripura University**

Sl.No.	Name of College
1	Adwaita Malla Barman Smriti College, Amarpur
2	B.R. Ambedkar College, Fatikroy
3	Bhavans Tripura College of Science & Technology, Anandanagar
4	Dasaratha Dev Memorial College, Khowai
5	Government Degree College, Dharmanagar
6	Government Degree College, Gandacherra
7	Government Degree College, Kamalpur
8	Government Degree College, Khumulwng
9	Government Degree College, Kanchanpur
10	Government Degree College, Longtarai Valley
11	Government Degree College, Santirbazar
12	Government Degree College, Teliamura
13	Holy Cross College, Jubatara
14	Ishwar Chandra Vidyasagar College, Belonia
15	Kabi Nazrul Mahavidyalaya, Sonamura
16	Micheal Madhusudhan Datta College, Sabroom
17	National Institute of Electronics & IT (NIELIT)
18	Netaji Subhas Mahavidyalaya, Udaipur
19	Rabindranath Thakur Mahavidyalaya, Bishalgarh
20	Rajarshi College of Education and Skill, Lembucherra
21	Ramkrishna Mahavidyalaya, Kailasahar
22	Ramthakur College, Agartala
23	Swami Vivekananda Mahavidyalaya, Mohanpur
24	Tripura State Academy of Tribal Culture
25	Tripura Tribal Folk Music College
26	Women's College, Agartala

## **Affiliated Professional Colleges of Tripura University**

Sl.No.	Name of College
1	Agartala Government Medical College, Agartala
2	Bhavan's Tripura College of Teachers Education, Narsingarh
3	Bhavans Tripura Teacher Training College, Ananadanagar
4	Bharat Pharmaceutical Technology, Agartala
5	College of Teacher Education, Kumarghat
6	College of Veterinary Science & Animal Husbandry, R.K. Nagar
7	Dhalai District Polytechnic, Ambassa
8	Gomati District Polytechnic
9	Government College of Arts & Crafts, Gurkhabasti
10	Holy Cross College (Department of Teacher Education)
11	Institute of Advanced Studies in Education, Kunjaban, Agartala
12	North Tripura District Polytechnic, Dharmanagar
13	Regional College of Physical Education, Panisagar
14	Regional Institute of Pharmaceutical Science & Technology,(RIPSAT),
14	Abhoynagar
15	Sachin Deb Barman Memorial Government Music College, Lichubagan
16	School & College of Nursing, TIPS , Hapania
17	Techno India Engineering College, Agartala
18	Tripura College of Agriculture, Lembucherra
19	Tripura College of Nursing, Hapania
20	Tripura Institute of Nursing Science, Durjoynagar
21	Tripura Institute of Paramedical Science, Hapania
22	Tripura Institute of Technology, Narsingarh
23	Tripura Medical College & Dr. BRAM Teaching Hospital, Hapania
24	TTADC Polytechnic, Khumulwng
25	Women's Polytechnic , Hapania







Foundation Stone laying of 150 seats Boy's Hostel by Shri Biplab Kumar Deb, Hon'ble Chief Minister, Tripura in presence of Honorable Vice Chancellor Tripura university and other dignitaries

# YOUTH DAY CELEBRATION



# CELEBRATION OF GANDHI JAYANTI & UNIVERSITY FOUNDATION DAY

















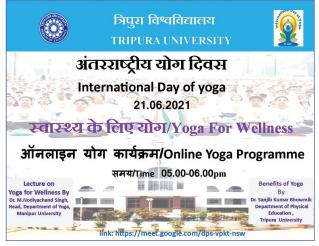


#### TRIPURA UNIVERSITY LITERARY FESTIVAL, 2020



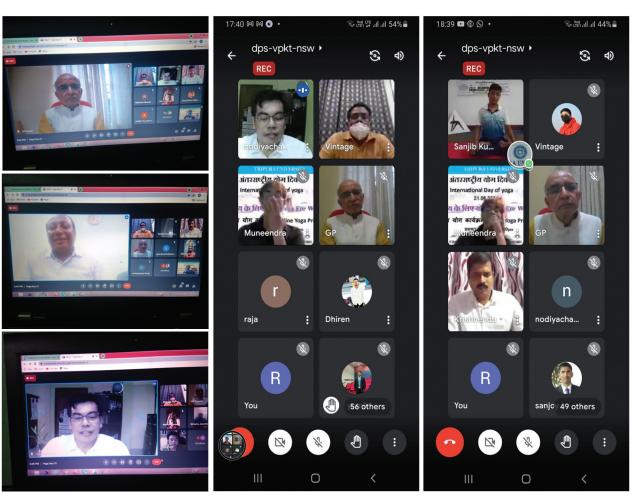








Webinar on NEP 2020



Webinar on Yoga Day

#### **Covid Awareness Lectures**



त्रिपुरा विश्वविद्यालय (केन्द्रीय विश्वविद्यालय) सुर्यमणिनगर



#### TRIPURA UNIVERSITY

(A Central University) Suryamaninagar,

#### सतकेता जागरुकता सप्ताह **VIGILANCE AWARENESS WEEK**

दिनांक : 27 अक्टूबर - 2 नवंबर 2020 Date : 27 October - 2 November 2020

ऑनलाइन शपथ ग्रहण /Online Pledge 27.10.2020 Time - 11.00 am google meet link https://meet.google.com/fpg-hfpr-bic for pledge

ऑनलाइन निबंध प्रतियोगिता, विषय - भ्रष्टाचार मुक्त भारत

Online Essay Competition on "Corruption free India" mail your essay on assttregistrar2@tripurauniv.in for essay competition Last Date 30.10.2020 prize ₹ 1200/-, ₹ 1000/- and ₹ 800/-

in two catagory - 1. Student / Research Scholar, 2. Teaching/Non-Teaching (Officer and staff) - Hindi & English

वेबगोध्टी/ Webinar on 02.11.2020 Time - 3.00 pm Google link for the webinar is https://meet.google.com/pyb-iaid-vhv

#### त्रिपुरा विश्वविद्यालय

(केन्द्रीय विश्वविद्यालय) सूर्यमणिनगर



### TRIPURA UNIVERSITY

(A Central University) Survamaninagar.

#### सतकेता जागरुकता सप्ताह **VIGILANCE AWARENESS WEEK**

दिनांक : 27 अक्टूबर - 2 नवंबर 2020 Date : 27 October - 2 November 2020

"सतर्क भारत समृद्ध भारत" पर ऑनलाइन वेबगोध्ठी A online webinar on "VIGILANT INDIA PROSPEROUS INDIA"

বিনাক / Date : 2.11.2020 Time - 3.00 pm Google link for the webinar is https://meet.google.com/pyb-iaid-vhv

अध्यक्ष Preside by



प्रो. जी. पी. प्रसाई<sup>\*</sup> Prof. G. P. Prasain

कलपति / Vice-Chancellor

बीज बक्ता Key-Note Speaker



डॉ. उमेश कुमार पांडेय Dr. Umesh Kumar Pandey

मख्य महाप्रवंधक (मा.सं.) / Chief General Manager (HR) ओएनजीसी त्रिपुरा परिसंपत्ति / ONGC Tripura Asset

Special Speaker

डॉ. इन्द्रनील भौमिक Dr. Indraneel Bho अध्यक्ष, अर्थशास्त्र विभाग, HOD, Deptt. of Economics, त्रिपुरा विश्वविद्यालय / Tripura University













**Poster Competition** for Students and Research Scholars of

त्रिपुरा विश्वविद्यालय एवं दक्षिण बिहार केन्द्रीय विश्वविद्यालय TRIPURA UNIVERSITY & CENTRAL UNIVERSITY OF SOUTH BIHAR

#### "DIFFERENT ASPECTS OF OF COVID-19"

प्रथम : ₹ 1200 द्वितीय : ₹ 1000 तृतीय : ₹ 800



- All Participants will get e-certificate from Tripura University
  - All Participants has to submit an undertaking for preparation of poster by themselves

from both Universities Lst date of submission: 30 October, Please send image of your poster in email ebsbtu@tripurauniv.in

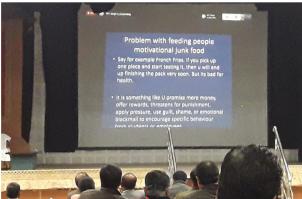


#### **VACCINATION PROGRAMME**



# **Events under FACULTY DEVELOPMENT CENTER**





















# © त्रिपुरा विश्वविद्यालय

(केन्द्रीय विश्वविद्यालय) सूर्यमणिनगर—799022, त्रिपुरा, भारत

# **Tripura University**

(A Central University) Suryamaninagar-799022, Tripura, India Printed by : Shobhan Printing House, Malaynagar, Bypass Road, Agartala-799004, M : 8837454908