

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

1_2.3.1_Departmental activities and programs as part of their course curricula and extension activities

2015-16

Sl No.	Title of the Programme	Date (From - to)
1	Orientation workshop on Hands on training of Biology Practical Exercises of TBSE Curriculum	05.10.2015-09.10.2015
2	Refresher Course in Experimental Physics-2016	08.03.2016 - 23.03.2016
3	Workshop on Survival Analysis	17.12.2015 to 18.12.2015
4	Workshop on "LABVIEW with Real Time Data Acquisition and Control,	19.01.2016 - 20.01.2016
5	Workshop on PHOTONICS, ELECTRONICS, NANOTECHNOLOGY, INTEGRATED CIRCUITS AND SYSTEMS (PHOENICS-2016),	29.02.2016 - 04.03.2016
6	ISI-TU Workshop on "Statistical and Computing methods for Life Science data Analysis"	14.03.2016 to 19.03.2016
7	ISI-TU Workshop on "Statistical Data Analysis Methods"	18.11.2015 to 24.11.2015
8	Two Days National Workshop on "Emerging Areas in Wireless Networks & Communication", Jointly organized by The Institution of Engineers and Dept of CSE, Dept of IT, Tripura University	01.08.2015 to 02.08.2015
9	Workshop on "Computational Aspects of Inflammatory Pain Related Diseases"	20.11.2015
10	One day Workshop on Contents-cum-Pedagogy of B.Com. Curriculum	15.07.2015
11	Two Day International Seminar on "ADWAITA MALLA BARMAN : JIBAN O SRISTI".	03.03.2016 - 04.03.2016
12	3 Day National Seminar on "Texts , Manuscripts and Oral Traditions of Tripura".	16.03.2016 -18.03.2016
13	National Seminar on Recent Trends in Plant Science Research	15.03.2016-16.03.2016
14	3 days Seminar cum workshop on Recent Trends in Biotechnological Research	20.01.2016 - 22.01.2016
15	National Seminar on "Purvottar Bharat Ka Katha-Sahitya	03.03.2016 - 04.03.2016

2016-17

Sl No.	Title of the Programme	Date (From - to)
1	Second International Conference on Material Science (ICMS2017)	16 – 18th February, 2017
2	GIAN course on SMART GRID: SECURE AND SUSTAINABLE ENERGY	16th - 25th September, 2016
3	National workshop on Home Automation System,	22nd-23rd November, 2016
4	Science Academic Refresher Course on " Statistical Physics and its Applications"	2nd -15th May, 2017

5	Workshop on 'Doing Sociology'	23rd September 2016
6	Workshop on ' Acting for Creativity'	3rd Oct- 5th Oct 2016
7	ISI-TU Workshop on “Machine Learning and Application”,	22nd to 24th February'2017
8	Workshop on "Web Design"	28th and 29th September'2016
9	Workshop on "Android"	26th and 27th September'2016
10	ICPR Sponsored National Seminar on Applied Ethics: Perpesptives and Issues	20-22 nd February, 2017
11	North East Oral Literature Festival	19th - 20th March, 2017
12	MINI-MATHEMATICS TRAINING AND TALENT SEARCH PROGRAMME(MINI-MTTS)	19-24 JANUARY, 2017
13	One Day National Conference on Rehabilitation of Persons with Speech and Hearing Desiblity	28/02/2017
14	Workshop on "Acting for Creativity"	2-4 November 2016
15	National Seminar on "Bhartiya Bhashaon Men Lok Sahitya	17-18 March, 2017
16	The Silence of Dying Voices: Literatures on the Verge of Extinction in India's North East and the rest of the World, A 2 Day Seminar of National and Global Significance, orgnsd. by Dept. of English, TU	4th to 5th July, 2016
17	Panel Discussion and Exhibition on “Sister Nivedita and her vision on India.”	27.04.2017
18	Northeast India Biodiversity Portal (IBP): Training Workshop	08.07.2016
19	Perspective of Phytoresources and its Sustainable Utilization (UGC-SAP)	09.03 2017- 10.03 2017
20	Workshop on “Modern Trends in Biological research” s	27 -29 th March, 2017
21	Film Production Workshop on Tribal Folktales of Tripura	25-28 February, 2017
22	Workshop on Vocal Music	24-30April 2017
23	Workshop on Kathak Dance	13-19February 2017
24	A Special Traning Camp on : Thumari,Dadara,Chaiti,Kajri	30-31 May 2017

2017-18

Sl No.	Title of the Programme	Date (From - to)
1	Workshop on Contrast Enhancement in Poor Visibility	5th-9th March, 2018
2	Workshop on Image and Video Forensics	12th-16th March, 2018
3	Seminar on Anton Paar Rheometer & SWAX Analyzer and its applications	12th December 2017
4	Science Academy's three-day workshop on “Thin Films & Nanomaterials: Principles and Applications	26th to 28th March, 2018
5	One day orientation program and awareness workshop for SWAYAM	1st June'2018
6	10 days workshop on Purification, Assay and Kinetics of Enzymes	26th April to 5th May 2018

7	Workshop on "Techniques for Genomic Research"	19 -23 rd March, 2018
8	Capacity Building Programme of National Mission on Libraries for Public Library Personnel Organized by Raja Rammohun Roy Library Foundation (RRRLF) in collaboration with Central Library and Department of Library and Information Science Tripura University held at Tripura University, Tripura	14th May to 18th May, 2018
9	Advanced National Workshop on Microbial Technology for Clean Environment	18/09/2017 to 21/09/2017
10	The English Text in a North East Classroom	2-3 November 2017
11	PEDAGOGICAL TRAINING FOR MATHEMATICS TEACHERS(PTMT)-2018	26-31 MARCH, 2018
12	Organized GIAN Course on "Secularism, Identity and Enlightenment: India and the West"	18-23 December, 2017
13	National Semminer on Impact of Modernization and Globalization on Tribel Society	24-25 November 2017
14	"Purvottar Bharat Ka Deshaj Sahitya"	10-11 January, 2018
15	National Seminar on "Sanskritik Rashtrawad Aur Muktibodh"	26-28 March, 2018
16	Awaness programme on Rudrsagar lake-its valuation, sustainable management and conservation	25.11.2017
17	Celebration of World Wetland Day, 2018	02.05.2018
18	National Seminar Plant Science Researches in North East India Organized by Department of Botany, Tripura University	07.06.2018
19	Collaborative Workshop on Transborder Transactions in Northeast India with Special Reference to the India-Bangladesh Border	13.11.2017 to 14.11.2017
20	Workshop on "Techniques for Genomic Research"	19 -23 rd March, 2018
21	Mystic Mountains Magical Rivers: A Festival of North Eastern Folkways orgnsd. by Dept. of English, TU	15.01.2018 to 18.01.2018
22	Workshop on vocal music	05.03.2017 to 07.03.2017

2018-19

SI No.	Title of the Programme	Date (From - to)
1	Research Methodology Workshop	18/02/2019 - 27/02/2019
2	National Seminar on ' Decolonizing Indian Mind: Exploring Possibilities'	15.03.2019-16.03.2019
3	1st Three Days "Workshop on Deep Learning"	10th-12th May, 2019
4	2nd Three Days "Workshop on Deep Learning"	13th-15th December, 2019
5	One-Week National Workshop on Emerging Tools and Technologies in Research (ETTR 2018)	05/11/2018 - 09/11/2018
6	Awareness Workshop on MOOCs under SWAYAM and NPTEL	7th January'2019
7	Awareness Workshop on MOOCs under SWAYAM and NPTEL	3rd March'2019
8	Workshop on " Organising and sharing your research using citation management tool: Mendeley"	July 27th 2018
9	1 Day Seminar on "Particle characterization using laser diffraction and dynamic light scattering" in association with	15th March 2019

	Anton Paar India	
10	3 Days National Seminar on "Cultural Studies in North East India: Prospects and Challenges	24-26 January, 2019
11	National Seminar on "Rajbhasha Evam Sahitya	18-19 January 2019
12	Nagarilipi Sammelan	5-6 October 2018
13	Skill Development workshop at Rudrasagar	02.05.2019 to 06.05.2019
14	GIAN Course "Toward an Integrated, Transdisciplinary Science of Humans-in-Nature: Social-economical-ecological Systems (SEs) and Ecosystem services, assessment and perspectives for sustainable planning and management of SEs"	19th -30th November, 2018
15	Workshop on Data Analytics using R Programming	31/07/2018 to 04/08/2018
16	Cytomolecular and Tissue Culture Techniques of Banana	15-03-2019-16.03.2019
17	Workshop on "Isolation, separation, purification and characterization of proteins"	25th February - 3 rd March, 2019.

2019-20

Sl No.	Title of the Programme	Date (From - to)
1	Workshop on Innovative approach for pollution minimization during natural fiber processing.	8/8/2019
2	Workshop on Brewing Bio-entrepreneurship in Northeast India.	12/7/2019
3	Cutting Edge Technologies in Chromatography and Mass Spectrometry	12/3/2020
4	International Conference on Computer Communication and Internet of Things (ICCCIoT 2020)	03/02/2020 - 04/02/2020
5	Workshop on River and Water Management for Sustainable Development with Policy Perspective	03/07/2019 - 04/07 2019
6	Wetland Day	02.02.2020
7	Workshop on Hindustani Vocal Music and Carnatic Instrumental Music	05/11/2019 - 08/11/2019
8	2nd One-Week National Workshop on Emerging Tools and Technologies in Research (ETTR 2019)	05/11/2019 - 09/11/2019
9	Workshop on "Hindi Jamatia Adhyeta Kosh	06/01/2020 - 10/01/2020
10	International Seminar on Visualising the Changes in Public Library System	06/08/2020-07/08/2020
11	2nd International Conference on Information Systems & Management Science (ISMS 2019)	06/12/2019 - 07/12/2019
12	5 Days ATAL Workshop on Data Science and Data Mining	10/02/2020 - 14/02/2020
13	Research Training Workshop on Understanding Human Diseases and Improving Human Health by Genomic Drives Approach	10/03/2019 - 15/03/2019
14	5 Days ATAL Workshop on Machine Learning and Artificial Intelligence	13/01/2020 - 17/01/2020
15	Seminar on Film Release of Three Folk Tales of Tripura-Kwatham Kothoma	13/02/2020

16	2-day International Seminar on " Emerging Scenario of Rural India:Society,Education and Literature	15/11/2019 - 16/11/2019
17	International Conference on Recent Advances in Mathematics and its Applications	16/07/2019 - 18/07/2019
18	Workshop on IPR.	17/01/2020
19	2 Day National Seminar titled:Cultural Heritage of Tripura orgnsd. by Dept. of English	18/03/2019 - 19/03/2019
20	Recent Trends of Microscopy: Light to Electron Microscopy & Digital Image Analysis	18/09/2019 - 19/09/2019
21	Workshop on NVivo 12Plus Qualitative Data Analysis Software	19/02/2020
22	Hands on Training on natural fiber quality assessment.	19/08/2019 - 3/09/2019
23	3-Day Ksetriya Vaidik Sammelan	20/09/2019 - 22/09/2019
24	Workshop on assessing the impact of biofertilizer application on scented rice grain.	21/08/2019-23/08/2019
25	5 Days ATAL Workshop on Recent Trends in Quantum Computing	23/09/2019 - 27/09/2019
26	Workshop on Self assembling domestic water purifier.	23/11/2019
27	Workshop on SPW and Lighting	26/11/2019 - 03/12/2019
28	International Conference on Business Management (ICBM 2020)	27/02/2020 - 29/02/2020
29	International Webinar on Drug Discovery and Drug Development	27/08/2020
30	National Seminar on "Purvottar Bharat Ka Bhakti Sahitya"	27/09/2019 - 28/09/2019
31	Workshop on Economic Valuation of Bioresources	30/09/2019 - 01/10/2019
32	Outreach Programme	13.03.2020
33	Techniques of Molecular Biology and Cell Culture	31/01/2020 - 03/02/2020

Extension activities

Name of the activity	Organising unit/ agency/ collaborating agency	Name of the scheme	Year of the activity	Number of students participated in such activities
Participatory Theatre	National School of Drama, Address: Nazurul Kalakshetra Complex, North Banmalipur, Shahid Khudiram Basu Lane, Agartala, Tripura 799007 Phone: 084138 73076	Gender Equity	2015	120
Educational tour on Garia Puja	Department of Sociology, Phone: 0381 - 2379030 Email: dyregistrar_academic[at]tripurauniv.in	Field Visit	2016	20

local industry tour 2016	Pran beverages India Ltd., Longtrai Spices, Mutha Industries Pvt.	part of curriculum	2016	60
Digital India Workshop	National e-Governance Division (NeGD), Department of Electronics and Information Technology, Ministry of Communications and Information Technology, Government of India	NSS	2016	240
8-Days Special Camp-2016 of NSS (6 th to 13 th May, 2016)	NSS TU	NSS	2016	100
Blood Donation Camp	NSS TU	NSS	2016	100
Health Camp	NSS TU	NSS	2016	150
Health Education	NSS TU	NSS	2016	85
Scientific magic on science awareness	NSS TU	NSS	2016	95
<u>Vanomohatsav Programme</u>	NSS TU	NSS	2016	20
<u>Yoga Day</u>	NSS TU	NSS	2016	125
Local Industry Tour 2017	Pran beverages India Ltd., Mutha Industries Pvt.	part of curriculum	2017	59
10 days Outbound Industry tour at NCR 2017	Expo mart, Anmol, Uflex (photographic), Graziand, ABP News studio, C&S Cefasec, Wipe India, Afflatus Gravures Pvt. Ltd.,	part of curriculum (46 students each visit)	2017	368
Acting for creativity	National School of Drama, Address: Nazurul Kalakshetra Complex, North Banmalipur, Shahid Khudiram Basu Lane, Agartala, Tripura 799007 Phone: 084138 73076	Three Day Theatre in Education Workshop	2016	50
NH 44 Repair in front of Tripura University	NSS TU	NSS	2017	30
Awareness program on Girl Child	NSS TU + Local NGO	NSS	2017	50
Awareness program on Swaccha Bharat Abhiyan	NSSTU+ Adopted Villages	NSS	2017	55
VISHAKA	NSS + MHRD	NSS	2017	50

Vanmahotsav & World Environment Day	NSS	NSS	2017	50
Blood Donation Camp	NSS	NSS	2017	60
Health Camp	NSS	NSS	2017	60
Health Education	NSS	NSS	2017	90
Digital India Program	NSS	NSS	2017	150
Sticker Pasting	NSS	NSS	2017	20
Excursion activity in South Tripura: Commit Sociology and Nature Experience	Department of Sociology	Commit sociology	2018	43
Orphanage visit and Donation-2018	Nabaprantik Orphanage		2018	60
Tree Plantation 2018	MBA Dept	Univ Outskirts	2018	120
Local Industry Tour 2018	Pran beverages India Ltd., Mutha Industries Pvt.	part of curriculum	2018	180
10 days Outbound Industry tour at NCR 2018	ABP News Studio, Exposition (photographic), Wipe India Automotive, Graziano Oerlikon, Cefasec C&S, New Holland Tractors, Anmol and Network 18	part of curriculum	2018	384
Swaccha Bharat Summer Internship	NSS	NSS	2018	312
Swaniti Initiative	NSS TU + Delhi NGO	Voice Positive Programme	2018	85
Photography / slide show competition with commentary by students on major tourist attractions with paired states (Bihar and Mizoram), Theme: Tourism & Livelihood/Jee vika aur Paryatan	NSS+EBSB	Ek Bharat Srestha Bharat	2018	50
Painting and	NSS+EBSB	Ek Bharat Srestha	2018	40

Essay competition Theme: Tourism & Livelihood/Jee vika aur Paryatan		Bharat		
Quiz Competition on Tourism/ Cultural matters of paired states (Bihar and Mizoram)	NSS+EBSB	Ek Bharat Srestha Bharat	2018	50
Literary Event/ Book Exhibition on Mizoram and Bihar	NSS+EBSB	Ek Bharat Srestha Bharat	2018	60
Observed Bihar Day	NSS+EBSB	Ek Bharat Srestha Bharat	2018	100
Observed Mizoram	NSS+EBSB	Ek Bharat Srestha Bharat	2018	100
Photo Exhibition on Mizoram and Bihar as part of Republic Day	NSS+EBSB	Ek Bharat Srestha Bharat	2018	150
Bhasa Diwas (Lectures on the languages of Bihar and Mizoram)	NSS+EBSB	Ek Bharat Srestha Bharat	2018	150
Fashion Parade as part of Hostel Week (Focus on Mizoram and Bihar)	NSS+EBSB	Ek Bharat Srestha Bharat	2018	50
Visited by representatives of Universities of South Bihar	NSS+EBSB	Ek Bharat Srestha Bharat	2018	50
Bhojpuri Film show organised by TU Film Club	NSS+EBSB	Ek Bharat Srestha Bharat	2018	50
Orientation for New Students on EBSB	NSS+EBSB	Ek Bharat Srestha Bharat	2018	100
Blood	NSS	NSS	2018	75

Donation Camp				
Photo Exhibition on Bihar and Mizoram	NSS+EBSB	Ek Bharat Srestha Bharat	2018	1000
Yoga Exhibition	NSS	National Youth Festival	2018	1
Marking of trees planted by Ex-Vice Chancellors TU	NSS	NSS	2018	50
Swaccha Bharat Summer Internship	NSS	NSS	2019	200
Swachhata Pakhwada	Dept. of Education, TU+NSS	Swaccha Bharat Mission	2018	250
Data Bank on adopted villages	NSS	NSS	2018	50
Book Ekhibition	EBSB	EBSB	2017	250
Bhasa Diwas	NSS	NSS	2018	200
Training Program on life skills	NSS	NSS	2018	50
Ananda Sobha Yatra	NSS	NSS	2018	50
Vigilance Day	NSS	NSS	2018	50
Visited to University of South Bihar	NSS+EBSB	Ek Bharat Srestha Bharat	2018	40
Orientation for New Students on EBSB	NSS+EBSB	Ek Bharat Srestha Bharat	2018	500
Digital India Program	NSS	NSS	2018	120
Flower bouquet preparation	NSS	NSS	2018	20
Tree Plantation program	NSS	NSS	2018	50
Outreach programme for fullbright Nehru fellowship programme	NSS	NSS	2018	100
Re-skilling of Indian Youth	NSS	NSS	2018	100
Swachhata Pakhwada in the Adopted villages	NSS	NSS	2018	150
International Yoga Day	NSS	NSS	2018	200

Awareness Programme organised by the NSS Volunteers in the Schools of adopted villages on “Prevention of Misuse of Social Media”	NSS	NSS	2018	100
150 th Birth Centenary celebration of Mahatma Gandhi	NSS	NSS	2018	100
Run for Unity and Rastriya Ekta Diwas	NSS	NSS	2018	100
IAS training programme	NSS	NSS	2018	100
Health awareness program	NSS	NSS	2018	50
One day student activity on mushroom cultivation techniques	M.B.B College students	Development of protocol along with hands on training for commercial cultivation of nobel wild edible mushrooms of Tripura funded by IERP, Govt. of India	2019	24
A two days hand on training of mushroom cultivation.	(villagers of Ballavpur Gram Panchayat, one of the adopted villages of Tripura University)	Development of protocol along with hands on training for commercial cultivation of nobel wild edible mushrooms of Tripura funded by IERP, Govt. of India	2019	20
Orphanage visit and Donation-2019 (Donation was generated by students by the Organizing Food fest in the University campus)	Nabaprantik Orphange	N.A.	2019	120
Blood Donation camp 2019	NSS	N.A.	2019	50
local Industry Tour 2019	Pran beverages India Ltd., Mutha Industries Pvt.	Part of curriculum	2019	60
10 days	Anmol Biscuits, Wipe	Part of curriculum	2019	405

Outbound Industry tour at NCR 2019	India, CS electric, Global Autotech, Graziano, CNH, Subros, Shivam Polymer, ABP News,, GIP Mall			
Visit to adopted village	MHRD Innovation Cell	Institute Innovation Cell under MHRD IIC	2019	16
Hands on training on mushroom cultivation and entrepreneurship development.	Villagers of Kalkolia Gram Panchayat	Development of protocol along with hands on training for commercial cultivation of nobel wild edible mushrooms of Tripura funded by IERP, Govt. of India	2020	25
10 days Outbound Industry tour at NCR 2020	CNH (New Hollands), RSPL Group (Ghari Detergent), GIP Mall, Anmol bakers, Global Autotech, Mirza International Ltd.(Red Tape), Shivam Polymers, Expo mart, Graziano Dana, Anmol Biscuits, Wipe India, CS electric, Graziano, CNH, Subros, ABP News	Part of curriculum	2020	705
Cleaning TU football ground	NSS	NSS	2019	30
Swachhata Pakhwada- 2019-20	NSS	NSS	2019	250
Garden cleaning	NSS	NSS	2019	25
Special talk on Bihar: Oitihai and Sanskritik Parichay	NSSS+EBSB	EBSB	2019	300
One student one tree	NSS	NSS	2019	50
Rashtriya Poshan Maah 2019	NSS	NSS	2019	100
<u>Swachhata hi Sewa</u>	NSS	NSS	2019	250
Fit India Programme	NSS	NSS	2019	220
Swaccha Bharat Summer Internship	NSS	NSS	2020	45
Two day state level workshop	NSS	DSY, Govt of Tripura	2020	50
Camp on personality and leadership development	NSS	NSS	2020	45

Book Fair visit	NSS	NSS	2020	28
International Yoga Day	NSS	NSS	2020	300
Food Distribution	NSS	NSS	2020	25
Mask Making	NSS	NSS	2020	15
Mask Distribution among the vulnerable section like children, women and aged persons	NSS	NSS	2020	25
Sanitizer distribution	NSS	NSS	2020	30
Food items distributions	NSS	NSS	2020	25
Awareness generation about Covid-19 among the villagers	NSS	NSS	2020	200
Vigilance Awareness week	NSS	NSS	2020	100
Digital India Campaign	NSS	Digital India Programme of Gol	2019	250
Constitution Day	NSS	NSS	2019	100
Celebration of Gandhi Jayanti	NSS	NSS	2019	150
<u>Drug Reduction</u>	NSS	NAPDDR	2020	50
<u>Volunteers' Service for the Cleanliness and Gardening of Tripura University</u>	NSS	NSS	2020	50

2_Departmental faculty members have actively involved students and researchers in innovative projects undertaken to address practical needs of society

2_1 Description: Mr. Harjeet Nath (Assistant Professor, Chemical and Polymer Engg.) developed a water purification system operated by Solar energy. The system is estimated to provide 400 litres of pure water per day at affordable price. The department will use this energy efficient and sustainable system for purification of laboratory's waste water. A patent has been filed by Mr. Nath to patent this technology (Patent Details: "Water Purification System" IPO (Indian Patent) with Application Number TEMP/E-1/54944/2019-KOL dated 14/12/2019)

2_2 Department of Chemical and Polymer Engineering-Mr Harjeet Nath, Assistant Professor of the Department in developing a special robotic system, to facilitate access and delivery of essentials to patients admitted in dedicated Covid 19 wards during the pandemic

2_3 Centre for Bamboo Cultivation and Resource Utilization, Department of Botany, has a dedicated course to inspire and develop life skills among students through participative training in Bamboo and cane-based handicrafts

2_4 Mushroom cultivation is encouraged and promoted with the active involvement of students in collaboration with promising entrepreneurs of the state

2_5 Innovative Research Project and academic development of faculty and students

Sl. No.	Title of the collaborative activity	Name of the participant	Year of collaboration	Nature of the activity
1	Studies of organic molecules adsorbed onto clay mineral layer	Dr. Syed Arshad Hussain	2013	Research Work
2	Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools	Prof. B.K. Datta	2012	Research Work
3	Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools	Prof. B.K. Datta	2012	Research Work
4	Molecular epidemiology of HPV and Survival cancer in Tripura: Genetic variation and influencing HPV persistence and disease Development	Prof. SK Sil	2012	Research Work
5	Organoclay hybrid film	Dr. Syed Arshad Hussain	2013	Research Work
6	Study the link between thunderstorms and upper tropospheric water vapor.	Dr. Anirban Guha	2013	Research Work
7	Atmospheric electricity and global climate	Dr. Anirban Guha	2013	Research Work
8	Study of nonlinear activity at nanoscale under cooperative science program	Dr. Syed Arshad Hussain	2013	Research Work
9	Molecular and cellular studies on normal and diabetic wound healing activities of Parkia javanica a medicinal plant of Tripura, North-East India	Prof. SK Sil	2014	Research Work
10	Studies on anticancer activities of extracts (Bromelain and peroxidase)	Prof. Debasish	2014	Research Work

	of different pineapple (Ananus comosus) cultivars of Tripura	Maiti		
11	Overcoming EGFR resistant oral squamous cell carcinomas with traditional healer	Dr. U.C. De	2015	Research Work
12	Assessment of carbon stock and carbon sequestration potential in major land use sectors of Tripura	Dr Sourabh Deb & Prof. BK Dutta	2015	Research Work
13	Installation of indigenously developed Lightning detection network in NE India	Dr. Anirban Guha	2015	Research Work
14	Conductive polymer, their synthesis, functionalization and application as electronic material and in water treatment have	Dr. R.K. Nath	2015	Research
15	IRNSS Navigation receiver field trial	Dr. Anirban Guha	2016	Research Work
16	Microbial roles in yield management of scented rice of northeast India	Prof. A.K. Saha	2016	Research Work
17	Microbial role of yield management of scented rice in NE India	Dr Shaon Ray Chaudhuri	2016	Research Work
18	Socio- Economic Impact Assessment of Bamboo Farming in West Tripura: A Case Study of Hezamara and Mohanpur Blocks	Dr. Sharmila Chhotaray	2016	Research Work
19	Microbial enzyme based natural fiber (Ramie) finishing: an eco-friendly approach	Dr. Shaon Ray Chaudhuri	2016	Research
20	Screening of the antileukemic and antioxidant potential of medicinal plants of Tripura: leading to chemical identification of the lead molecules	Prof. B.K. Datta	2017	Research Work
21	Establishment of a culture collection centre in Northeast Region of India Phase II	Dr. P. Das & Prof. A.K. Saha	2017	Research Work
22	Schumann resonances (SR) and SR inversion to reproduce the global lightning activity.	Dr. Anirban Guha	2017	Research Work
23	Microbial consortium based biofertilizer for increased Ramie Fiber yield	Dr. Shaon Ray Chaudhuri	2017	Research
24	PCG/ECG and other Biomedical Signal Processing Research	Dr. Swanirbhar Majumder	2017	Research Work
25	Natural Language Processing for Low Resource North East Languages	Dr. Swanirbhar Majumder	2017	Research Work
26	MEMS based Research	Dr. Swanirbhar Majumder	2017	Research Work
27	Bioresources and sustainable livelihood in Northeast India	Prof. B.K. Datta	2018	Research Work
28	Genome Characterization of Banana/Plantain Genetic Resources	Prof. R. K. Sinha	2018	Research Work

	of North-eastern Region and their Utilization in Multicenter Planning for Commercial Improvement			
29	Integrated approach to understand agarwood formation and value addition to agarwood	Dr. Bimal Debnath	2018	Research Work
30	Development of polyherbal based function biopolymer hydrogel for delivery of novel healing agents in excision and burn wound	Prof. SK Sil	2018	Research Work
31	Screening of spirooxindole derivatives as cancer chemotherapeutic agents by targeting G-Quadruplex interaction	Dr. Pratap Acharya	2018	Research Work
32	Study of the magnetic structure in a few synthesized metal doped spinel ferrite nanocrytals	Dr. Ratan Das	2018	Research Work
33	What role of tropical thunderstorms play in driving the upper tropospheric water vapour	Dr. Anirban Guha	2018	Research Work
34	What role of tropical thunderstorms play in driving the upper tropospheric water vapour	Dr. Anirban Guha	2018	Research Work
35	Establishment of a culture collection centre in North East Region of India Phase II	Tripura University	2018	Research
36	MEMS based Research	Dr. Swanirbhar Majumder	2018	Research Work
37	Image Steganography and security	Dr. Swanirbhar Majumder	2018	Research Work
38	Aspen Plus simulation of a Fluidized Bed Gasifier	Harjeet Nath	2018	Research Work
39	Understanding mechanistic detail of growth promotion and stress tolerance in legume crop by fungal endophytes through secretom and metabolomics study	Dr. P. Das & Prof. A.K. Saha	2019	Research Work
40	Prospects of biochars as amendment in various types of soil present in North East India	Shri. Harjeet Nath	2019	Research Work
41	Synthesis and derivation of different crysin derivatives followed by screening of anti obesogenic activity, anti diabetogenic activity	Dr. U.C. De	2019	Research Work
42	Study of Induction and Mechanism of Autophagy in EAC cells upon treatment with theaflavins	Prof. Debasish Maiti	2019	Research Work
43	Investigation of hydrophobically modified polysaccharides for nanodelivery of anti cancer drugs	Dr. Pratap Acharya	2019	Research Work
44	Synthesis and derivation of different crysin derivatives followed by screening of anti obesogenic activity, anti diabetogenic activity	Dr. U.C. De	2019	Research work

45	Design of a fractal inspired antipodal vivaldi antenna with enhanced radiation characteristics for wideband applications	Dr. Anirban Karmakar	2019	Research Work
46	Multivariate intrinsic mode functions for electroencephalogram signals using single channel	Dr. Swanirbhar Majumder	2019	Collaborative Research Work
47	National Workshop on Hindustani Classical Music	Vocal music - Students of the Dept .of Music	2019	Workshop- Lecture and Practical Demonstration and Teaching by the Artists
48	Study of the Antibacterial activity of Silver nanocrystals	Dr. Ratan Das	2019	Antibacterial Activity
49	Study of the Antibacterial activity of Silver nanocrystals	Dr. Ratan Das	2019	Antibacterial Activity
50	Antibacterial Activity of CdTe nanocrystals	Dr. Ratan Das	2019	Antibacterial Activity
51	Antibacterial Activity of CdTe nanocrystals	Dr. Ratan Das	2019	Antibacterial Activity
52	A Compassionate Self Is a True Self? Self-Compassion Promotes Subjective Authenticity	Prof. Nutankumar S. Thingujam	2019	Research
53	Understanding Problematic Internet use from a Behavioral Economic Perspective	Prof. Nutankumar S. Thingujam	2019	Research
54	Accuracy in the cross-cultural understanding of others' emotions	Prof. Nutankumar S. Thingujam	2019	Research
55	Spring Rejuvenation for Water Security in Himalaya	Dr Sourabh Deb	2020	Research Work
56	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	Dr Sourabh Deb	2020	Research Work
57	Defect engineering of prepared nano structures	Dr. G.G. Khan	2020	Research Work
58	Invivo central venous catheters associated biofilm infection surface treatment	Dr Ashwini Chauhan	2020	Research Work
59	Technology implementation for fullscale STP operation	Dr Shaon Ray Chaudhuri	2020	Technology Implementation

60	Study of the correlation between Elastic and optical properties of the SHI irradiated a few Gr II-VI semiconductor nanocrystals	Dr. Ratan Das	2020	SHI irradiation facilitator
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3_Experiential learning-Internship programs, study tours and exposure visits

3_1 Department of Geography and Disaster Management organize yearly study tours, industry visits outside the state of Tripura to offer practical exposure to students who are thus professionally enabled to connect theory with praxis

3_2 Department of Business Management organize yearly study tours, industry visits outside the state of Tripura to offer practical exposure to students who are thus professionally enabled to connect theory with praxis

3_3 Department of Rural Studies have specially included PRA exercises in their Masters' project work to enable students to identify problem areas and Entry Point Activities

3_4 Department of Forestry and Biodiversity have specially included PRA exercises in their Masters' project work to enable students to identify problem areas and Entry Point Activities

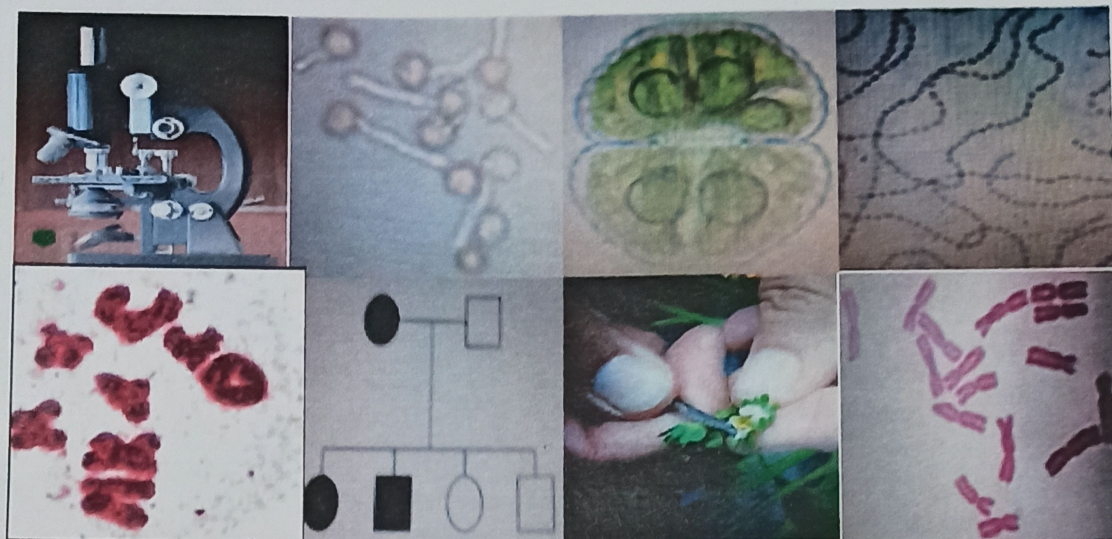
4_Several departments encourage government and NGO Placements and Industry Attachments for the sake of fostering, encouraging and enhancing participative learning experiences

4_1 Department of JMC the students were involved in the making of a full-length feature film based on the rich folklore traditions of Tripura under the stewardship of faculty from the department

Design original short length commercial videos as part of their curriculum

5_Promoting parliamentary participation for the cause of democracy and civil society- Department of Political Science, students of Tripura University have successfully made a mark in participating in Youth Parliament

Hands on Training of Biology Practical Exercises of TBSE Curriculum



LABORATORY MANUAL

5th - 9th October, 2015



Department of Botany
Tripura University
(A Central University)
Suryamaninagar- 799022
Tripura, India

SCIENCE ACADEMIES' EDUCATION PROGRAMME

JOINT SCIENCE EDUCATION PANEL

SEP/RC/December/2015

05 November 2015

Dr Anirban Guha
Assistant Professor (Stage -II)
Department of Physics
Tripura University (A Central University)
Suryamaninagar
Tripura 799 022

Sub: Refresher Course on "Experimental Physics" at Tripura University during 8-23 March 2016.

Dear Dr Guha,

This has reference to your letter dated 10 August 2015 forwarding a proposal and budget for organizing a Refresher Course in Tripura University. The Joint Science Education Panel of the three Academies will be happy to sponsor and support the Lecture Workshop. We note that Prof. R. Srinivasan will be the Course Director and you will be the Course Co-ordinator.

- (a) Your budget of Rs 7,22,200/- for 35 participants (exclusive of **travel expenses**) for Resource Persons has been approved by the Science Education Panel. The sanctioned amount is exclusive of Rs. 50,000/- which is the contribution from the host institute as mentioned in your budget.
- (b) Please note that only the names of Convener and Coordinator of the Workshop should be included in brochure/invitation etc. Names of members of the management, organizing committees, patrons etc should be strictly avoided.
- (c) As the Refresher Course is an all India one, it has to be advertised in our journals **RESONANCE** and **CURRENT SCIENCE** (copy of a typical announcement is attached). Please send us a draft of your announcement.
- (d) Applications should be submitted online through a link which will be available in our website. The Course Director and Coordinator will be provided a user-id/password to enable them to view the applications and make the selections.
- (e) Refresher Courses are sponsored and supported by the three National Science Academies - IASc, INSA and NASI. The names of INDIAN ACADEMY OF SCIENCES (BANGALORE), INDIAN NATIONAL SCIENCE ACADEMY (NEW DELHI) and THE NATIONAL ACADEMY OF SCIENCES, INDIA (ALLAHABAD) should therefore be mentioned in all publicity material such as programme sheet, invitation cards, etc.

Indian Academy of Sciences

Sebastian, KL
(Chairman)

Ramraj, R

Samanta, A

Arunan, E

Murthy, MRN

Saidapur, SK

Chattopadhyay,

Dhrubajyoti

Lakshmanan, M

Raghunathan, VA

Dhar, Deepak

Mandal, Nibir

Vinayachandran, PN

Sankaran, P

Rangarajan, G

Indian National Science Academy

Dogra, SK

Muralidhar, K

Gupta, Alok K

Passi, IBS

The National Academy of Sciences, India

Dimri, Vijay Prasad

Gupta, Santosh Kumar

Khurana, Paramjit

Misra, Gadadhar

Contact Address

Mahabaleswara, TD

Coordinator

Refresher Courses &

Lecture Workshops

Indian Academy of

Sciences

P.B. No. 8005

C.V. Raman Avenue

Sadashivanagar P.O.

Bangalore 560 080

India

Telephone:

91-80-2266 1210

91-80-2266 1222

Fax:

91-80-2361 6094

Email:

sep@ias.ernet.in



Indian Academy
of Sciences,
Bangalore



Indian National
Science Academy,
New Delhi



The National Academy
of Sciences, India
Allahabad

(f) The Course should be called "Science Academies' Refresher Course in "Experimental Physics".

(g) Please send 4-5 copies of the printed programme when ready.

(h) Funds for organizing the Course can be sent as an advance by electronic transfer. This can be sent after a bank account is opened and the following details are provided to us:

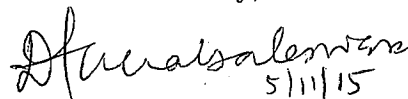
1. Name of the Bank:
2. Name of the Branch:
3. Account No.:
4. Name of the Account Holder
(in the name of Refresher Course);
5. IFSC – code (for Non-SBI accounts)

If necessary, an authorization letter from the Academy to the bank to open the Savings Bank account can be sent to you after we hear from you.

Please go ahead with organizing the Course in consultation with Professor Srinivasan and keep in touch with the Academy about the progress.

Best wishes,

Yours sincerely,



T. D. Mahabaleswara

Coordinator (LW/RC), Science Education Panel

Indian Statistical Institute

203, Barrackpur Trunk Road, Kolkata-700108



Certificate of Appreciation

We hereby express our sincere appreciation to

Samrat Hore

Assistant Professor & Head (I/C)

Department of Statistics, Tripura University, Tripura

In recognition of his tireless effort and valuable role as the local co-ordinator of the Workshop on "Survival Analysis" conducted by the Applied Statistics Unit of the Indian Statistical Institute, Kolkata and held at Department of Statistics, Tripura University, Tripura during 17-18 December 2015.

Dated: 7th April, 2016

R. Choudhury Samu
Roma Choudhury Samu
Course Co-ordinator
Applied Statistics Unit

Tapas Samanta
Tapas Samanta
Head
Applied Statistics Unit

Anup Dewanji
Anup Dewanji
Professor-in-charge
Applied Statistics Division

Two Days Workshop

on

“LABVIEW with Real Time Data Acquisition and Control”

Date: 19th -20th January 2016, 10 A.M. to 5 P.M.

Venue: Department of Electrical Engineering, Tripura University,
Suryamaninagar, Tripura, India

Jointly Organised by

**Department of Electrical Engineering, Tripura University
Micro-Pro & National Instruments**

Workshop will cover the following Topics

Day	Date	Topic	
		1 st half (10AM to 1 PM)	2 nd half (2 PM to 5 PM)
Day 1	19/01/2016	Basics of LABVIEW Software	Modern Control System Real time Data Acquisition by LABVIEW software
Day 2	20/01/2016	Energy and Power System real time Data Acquisition by LABVIEW software	Robotics Real Time Data Acquisition by LABVIEW software

Registration Fee: 100/- (For Student)

: 200/- (For Faculty)

Workshop Coordinators:

❖ **Champa Nandi**
Assistant Professor
Department of EE
Tripura University

❖ **Mr. Ravi Kumar**
GM-Marketing
Micro –Pro
Kolkata

Workshop Contact No: 9436502334

Workshop on
PHOTONICS, ELECTRONICS, NANOTECHNOLOGY,
INTEGRATED CIRCUITS AND SYSTEMS (PHOENICS-2016)

February 29 – March 4, 2016

A UGC Networking Resource Center in Physical Sciences (UGC-NRCPS) Program

Organized jointly by



Institute of Radio Physics & Electronics
University of Calcutta

Department of Electrical Engineering,
Tripura University



Venue: Tripura University, Dept. of Electrical Engineering

Objectives of the Workshop:

To cover advanced topics in Photonics, Electronics, Nanotechnology, Integrated Circuits and Systems to faculty members, research scholars & senior students.

About the Workshop:

The remarkable advances in Semiconductors Devices, Integrated Circuits and Systems, Opto-electronics, Photonics and Nanotechnology in recent years have built up a huge amount of new information that needs to be disseminated & discussed in a common platform. This knowledge must be shared with young scientists and technologists to inculcate in their mind the spirit of research and developmental work for the benefit of the country. Leading experts in the field shall be invited to participate in this workshop and share their expertise with the participants.

INRAPHEL & UGC Networking Resource Centres:

The UGC has established Networking Research Centers (NRC), 2 each in Physical, Chemical, Biological, Mathematical and Materials Science in the country. The Institute of Radio Physics and Electronics (IRPEL) established in 1949 as the first University Department on Radio Science and a Centre of Advanced Study since 1963 has been selected as the first NRC in Physical Sciences. One of its activities is to organize joint scientific program in North Eastern States. This workshop, being held in Tripura University, Agartala, is part of such activity.

About Tripura University:

The State Government took the initiative to pass the Tripura University Act in the Assembly in 1987 and the first University in the state came into being on 2nd October 1987. The objective of the University is not only be "to disseminate and advance knowledge by providing instructional and research facilities" in the state in areas of contemporary relevance to the society and the country but to make special provisions for studies in tribal life and culture and to introduce vocational subjects with a view to provide employment opportunities to the students. A total number of 42 courses run under the University

Scope of the Workshop:

There will be lectures by experts followed by interactive session. The tentative topics are

- Semiconductor devices
- Modern & Future VLSI system design
- Mobile and Optical Communication
- Materials Growth and Characterization
- Photonics
- Nano Technology

Few other topics may be included subject to the availability of experts and time.

Technical Program Coordinated by UGC-NRCPS
Program in Radio Physics & Electronics
University of Calcutta

Registration Fee & Fellowships:

There is no Registration Fee. Limited number of participants may be offered TA/DA from UGC-NRCPS, with due emphasis to SC/ST candidates. Application in the prescribed format should be send by e-mail to cnandi@tripurauniv.in with a copy to phoenics.rpe@gmail.com mentioning subject **Phoenics 2016 submission**. A hard copy, duly endorsed by the head of your institution/dept. must be submitted at the time of the workshop to be eligible for financial support.

Resource Persons form Tripura University:

- Prof. A. K. Ghosh
- Prof. B. K. De
- Dr. Syed Arshad Hussain
- Dr. Ratan Das

Participants: Faculties, research scholars and Post Graduate students (EE/CSE/IT/ECE/Physics) of Tripura University and other Universities/ Institutions from the **North-East Indian States**.

Certificates will be provided only those candidates who attend all the sessions.

Course Coordinators:

Mrs. Champa Nandi
Assistant Professor
Dept. of Electrical Engineering
Tripura University

Dr. Ashik Paul
Institute of Radio Physics and Electronics
University of Calcutta

Financed by

UGC-NRCPS
Institute of Radio Physics & Electronics
University of Calcutta

Director:

Prof. N. R. Das
UGC-NRCPS, IRPEL,
University of Calcutta, Kolkata

Resource Persons from the University of Calcutta:

- Prof. P. K. Basu
- Prof. Susanta Sen
- Prof. G. Ghosh
- Prof. J. B. Roy
- Prof. N. R. Das
- Prof. G. Sen
- Prof. P. P. Goswami
- Prof. Abhijit Biswas
- Dr. Abhirup Dasbarman
- Dr. Ashik Paul
- Dr. J. Y. Siddiqui
- Dr. B. Mukhopadhyay
- Dr. S. Mukhopadhyay
- Dr. Arpita Das

Important Dates:

Application deadline: Feb. 22, 2016

Intimation of Selection of Candidates: Feb. 24, 2016

Workshop Duration: Feb. 29 to March 4, 2016

Late and Incomplete application will not be entertained.

For any queries related to the workshop, please contact :

Mrs. Champa Nandi, Assistant Professor, Dept. of Electrical Eng. Tripura University, Phone: +(91)94365-02334; e-mail: cnandi@tripurauniv.in



**Tripura University
(A Central University)**

Patron:

Prof. Anjan Kumar Ghosh ,Hon'ble Vice Chancellor

Advisory Committee :

Prof. Anjan Mukharjee, Pro-Vice Chancellor

Prof. M.K.Singh, Dean of science

Prof. Barin Kumar De, Physics Department

Coordinators :

Mrs. Champa Nandi, Asst. Professor, Department of EE

Dr. Ashik Paul, Institute of Radio Physics and Electronics, University of Calcutta

Co-coordinator:

Mr. Abhisek Majumder, Asst. Professor, Department of CSE

Program Committee:

Mr. Shibendu Debbarma , Assistant Professor, Department of IT

Mrs. Sangita Das Biswas, Assistant Professor, Department of EE

Dr. Mrinal Kanti Bhowmik, Assistant Professor, Department of CSE

Mr. Jayanta Pal, Assistant Professor, Department of IT

Mrs. Gagari Deb, Assistant Professor, Department of EE

Mr. Swarup Nandi, Lecturer, Department of IT

Mr. Sumanta Saha, Lecturer, Department of IT

PHOENICS – 2016 REGISTRATION FORM

Name:

Designation:

Department:

Institution:

Address:

Contact details: Phone:

e-mail:

..... Category (please tick):

General	SC	ST
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(Signature of the Applicant) (Copy of certificate required for reserved category)

Endorsement by the Head of the Dept./Institution: (Required for receiving financial support from UGC-NRCPS)

Certified that Prof./Dr./Sri/Sm.

Is a Faculty Member/Research Scholar/Student of this Dept./Institution and that he/she is authorized to participate in the Workshop on "Photonics, Electronics, Nanotechnology, Integrated Circuits and Systems (PHOENICS-2016)" being held in Tripura University from February 29 to March 4, 2016.

.....
(Signature of the Head of the Dept./Institution)

Date:

Place:

(Official Seal)

Please send an advance copy by e-mail to cnandi@tripurauniv.in with a copy to phoenics.rpe@gmail.com , mentioning subject "**Phoenics 2016 Submission**" and submit the hardcopy, duly endorsed by the appropriate authority (Head of the Dept./ Registrar/ Director) of your Institution at the time of the Workshop.

त्रिपुरा विश्वविद्यालय TRIPURA UNIVERSITY

(केन्द्रीय विश्वविद्यालय)
(A CENTRAL UNIVERSITY)

सूर्यमणिनगर, अगरतला, त्रिपुरा, भारत
Suryamaninagar, Agartala, Tripura, INDIA
पिन Pin - 799022



फोन Phone : (0381) 237 4801
237 4803
237 5355
237 9004
237 4804
237 9005
फैक्स Fax : (0381) 237 4802
237 4804

e-mail : tuoffice@tripurauniv.in
website : www.tripurauniv.in

Ref: F.TU/Com/workshop/01/09

Date: July 20, 2015

Certificate of Participation

This is to certify that Dr. Subir Kumar Sen, Assistant Professor, Department of Commerce, Tripura University, Agartala has participated and acted as a Resource Person in Technical Session in the ONE-Day Workshop on "Contents-cum-Pedagogy of B.Com Curriculum" held on 20th July, 2015 organised by the Department of Commerce, Tripura University (A Central University).

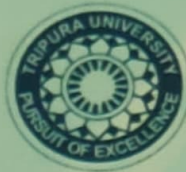
.....
(Smt. Sobha Debbarma)

Director,
College Development Council,
Tripura University

.....
(Prof. P.K. Halder)

Head,
Department of Commerce,
Tripura University

Professor (Dr.) P. K. Halder
Head, Department of Commerce
Tripura University (A Central University).



**Two Day International Seminar
on
Adwaita Malla Barman : Jiban O Sristi**

organized by
Department of Bengali
in collaboration with
Department of welfare of Scheduled Casts,
Govt. of Tripura

Date : 3rd & 4th March, 2016

Invitation

Dear Madam / Sir,

The Department of Bengali, Tripura University in collaboration with Department of welfare of Scs, Government of Tripura is going to organize Two Day International Seminar on 'Adwaita Malla Barman : Jiban O Sristi.' The Seminar is scheduled to be held on 3rd & 4th March, 2016.

Prof. Anjan Kumar Ghosh, Hon'ble Vice Chancellor Tripura University will inaugurate and preside over the inaugural session on 3rd March, 2016. Mr. Ratan Bhowmik, Minister, Department of Welfare of Scs, Govt. of Tripura will grace the occasion as Guests of Honour. Dr. Pasun Ghosh, Head of the Department, University of Calcutta will deliver key note address.

The organizing committee cordially invites you to attend the inaugural session and make the programme on grand success.

Vanue : Conference Hall (Academic Building -11)
Ground Flour
Time : 10.30 AM

Dr. Nirmal Das
Convener
International Seminar

C-II
a/11/3



**NATIONAL SEMINAR
ON
TEXTS, MANUSCRIPTS & ORAL TRADITIONS
OF TRIPURA**

Organised by
Department of Sanskrit
Tripura University, Suryamaninagar

in collaboration with
Indira Gandhi National Centre for the Arts
New Delhi

(Date : 16th - 18th March, 2016)

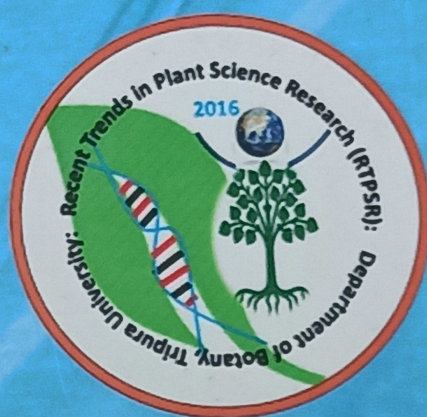
Venue :
Seminar Hall-II, Academic Building - XI
Tripura University,
Suryamaninagar - 799022



NATIONAL SEMINAR ON RECENT TRENDS IN PLANT SCIENCE RESEARCH (RTPSR)

March 15th & 16th, 2016

Programme & Abstracts



Organized by:

Department of Botany

UGC-SAP (DRS-I)

Tripura University

(A Central University)

Suryamaninagar-799022

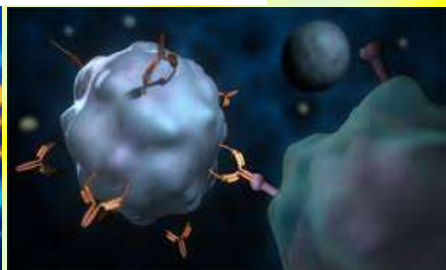
Tripura, India

**3 days Seminar cum workshop
ON
Recent Trends in Biotechnological
Research**

January 20 - 22, 2016



**Organized by
State Biotech Hub
Tripura University
Suryamaninagar.**



**Sponsored By:
Department of Biotechnology
Govt. of India
New Delhi**

The development in molecular biology techniques have revolutionized the basic and applied biological research. Whilst molecular techniques have evolved at a speedy rate over the last few decades, the underlying biochemical principles behind the vast majority of them have actually changed little. In this context a 3 days seminar cum workshop on “Recent Trends in Biotechnological Research” is being organized from January 20 - 22, 2016 at State Biotech Hub, Tripura University, Tripura under the DBT programme on “Empowerment of North Eastern Human Resource for Biotechnology Activities”.

This seminar cum workshop will give the opportunities to the researcher to learn development in diverse field of biotechnological research and exposure to modern techniques used in biotechnology.

Tentative topics: Advances in Bioimaging and microscopy, Gene expression and its regulation, Methods in Molecular Biology, Immunobiotechnology, Stem cell biology, Cellular Biotechnology etc.

Eligibility criteria: Servicing in college / university as faculty member and working on biotechnology related field or working as research scholar towards PhD degree in the Biotechnology related field or planning to do PhD in biotechnology related field.

About Agartala:

Tripura (Bengali: ত্রিপুরা) is a **State** in **Northeast India**. The third-smallest state in the country, it covers 10,491 km² (4,051 sq mi) and is bordered by **Bangladesh** (East Bengal) to the north, south, and west, and the Indian states of **Assam** and **Mizoram** to the east. In 2011 the state had 36,71,032 residents, constituting 0.3% of the country's population. **Indigenous communities**, known in India as **scheduled tribes**, form about 30 per cent of Tripura's population. The **Kokborok** speaking **Tripuri people** are the major group among 19 tribes and many subtribes. The **Bengali people** form the ethno-linguistic majority in Tripura. Agartala, the capital of Tripura is arguably one of the most diversely populated cities of India. Tripura has always been a home to various mix of tribes and all these tribal amalgamation has led to an influx of people representing their own clan. Agartala, with its

verdant forest cover, near perfect green backdrop, great tourist sites and laid back attitude presents a sight of an ideal tourist destination. The rich and varied tribal culture thriving on the high mountains and vast and alluring green valleys adds its own charm to the attraction of the state.

Tripura University is the main central government university of the Indian state of **Tripura**. Tripura University ranked 4th position in Eastern and 43rd position in all India according to India Today – Nielsen University Ranking Survey 2014 published in *India Today* on June 30, 2014 and Graded B with CGPA of 2.63 by NAAC. The state's first institution of higher education, MBB College, had commenced functioning from 1947 with affiliation from **Calcutta University** but in the immediate aftermath of partition the population of the state registered a steep growth and so did the number of students aspiring for higher education.

Patron:

Prof. A. K. Ghosh, Honorable Vice-Chancellor

Advisory committee:

Prof. A.K Mukherjee, Pro-V.C, T.U.

Prof. M.K. Singh, Dean of Science, T.U

Prof. D. Ghosh. T.U.

Organizing Secretary:

Dr. D. Maiti. Coordinator, SBT Hub, T.U.

Joint Secretary: Dr. Kuntal Manna

Treasurer:

Dr. S. S. Singh, Co-coordinator, SBT Hub, T.U

Members:

Prof. A.K. Saha, T.U., Prof. B.K. Datta, Prof.

S. K. Sil, Dr. D. Choudhury, Dr. S. Basak, Dr.

S. Bhattacharjee, Dr. B.K. Sharma, Dr. S. Deb.

REGISTRATION FORM

Title: ☐Dr. ☐Mr. ☐Ms

Full Name in BLOCK letters: _____

Father's name: _____

Designation and Affiliation : _____

Department/College/Institute: _____

Educational Qualificaton: _____

Highest degree received:_____

Postal Address: _____

PIN: _____

Email ID: _____

Mobile no. : _____

Research Experience in month/year: _____

Area of Specialization : _____

Please mention you want to present poster or oral presentation. _____

Please mention whether you want to participate in both seminar and workshop / Only seminar / Only workshop :-----

A brief write up on how the participation in the seminar cum workshop is going to benefit you in your teaching/ research career (Pl. attach as separate sheet): _____

The above mentioned information are true to the best of my knowledge and belief.

Signature: _____ Date: ____/____/____

Recommendation note of the Head of the Dept./ Institute/College:

**Signature & Seal
Of Head of the Dept./ Institute/College:**

Completed application form with supported documents duly forwarded by the Head of the Dept./ Institute/College should be sent by email to **debumaiti@gmail.com**

Dr. Debasish Maiti, Coordinator, SBT Hub and Associate Professor, Dept of Human Physiology, Tripura University, Suryamaninagar, Tripura 799022 before 16th January 2016
☎ 09612426272.

Selected candidates shall be informed by email.

Accomodation: You have to arrange for your own accommodation
No TA/DA will be provided by organizing committee

Significant dates:

Application deadline: January 16, 2016

Selection and notification of participants by:

January. 18, 2015

Confirmation by participants:January 19, 2015

Registration fee: **Rs. 700.00** (includes working lunch) have to be paid in cash after selection during registration in spot.

Applications with abstracts are invited from eligible candidates from different parts of North East states of India. The research minded persons who are highly motivated to do research in the biotechnology related field, are encouraged to apply. Candidates are requested to provide proper proof of eligibility criteria. No accompanied person will be allowed. Some of the above topics will be explained theoretically and some will be executed on practical basis.



हिंदी विभाग, त्रिपुरा विश्वविद्यालय द्वारा आयोजित

एवं

केंद्रीय हिंदी संस्थान, शिलाँग केन्द्र

तथा

गेल (इंडिया) लिमिटेड, अगरतला द्वारा प्रायोजित

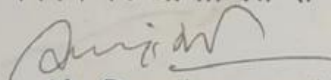
दो-दिवसीय राष्ट्रीय संगोष्ठी

“पूर्वोत्तर भारत का कथा-साहित्य”

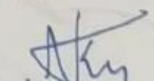
दिनांक : 03-04 मार्च, 2016

प्रमाण-पत्र

प्रमाणित किया जाता है कि डॉ. मिलन रानी जमातिया, सहायक प्राध्यापिका, हिंदी विभाग, त्रिपुरा विश्वविद्यालय, सूर्यमणिनगर ने दिनांक 03-04 मार्च, 2016 को केंद्रीय हिंदी संस्थान, शिलाँग केन्द्र तथा गेल (इंडिया) लिमिटेड, अगरतला के आर्थिक सहयोग से हिंदी विभाग, त्रिपुरा विश्वविद्यालय, सूर्यमणिनगर में “पूर्वोत्तर भारत का कथा-साहित्य” विषय पर आयोजित दो-दिवसीय राष्ट्रीय संगोष्ठी का सफलतापूर्वक संयोजन किया।


(प्रो. विद्याशंकर शुक्ल)

क्षेत्रीय निदेशक
केंद्रीय हिंदी संस्थान
शिलाँग केंद्र


(प्रो. अंजन कुमार घोष)

कुलपति
त्रिपुरा विश्वविद्यालय

SMART GRID: SECURE AND SUSTAINABLE ENERGY

MHRD Scheme on Global Initiative on Academic Network (GIAN)

Foreign Expert Speaker: Dr. Vidyasagar Potdar, Curtin University, Australia

Venue: EE Dept, Tripura University

Dates: 16th September – 25th September, 2016,

Closing of Application process: 01-09-2016

Overview

Electricity costs are predicted to skyrocket in the coming years and it's expected to double over the next 5 years due to challenges in resources development and climate change, and this is a worldwide issue.

Smart Grid achieves bidirectional energy and information flow between the energy user and the utility grid, allowing energy users to generate energy and share with the utility grid or with other energy consumers.

“*Prosumer*” is the energy user who consumes as well as generates energy and they form a “*Prosumer Community Smart Grid*”. The *key objective* of a prosumer community smart grid is to be self-sufficient and sustainable and to share the excess energy amongst the community first and then auction the rest to the utility grid.

Objectives:

There are a number of *research issues* and *challenges* that need to be addressed to implement and realize the community smart grid vision. These are

Introduction of Smart Grid,

Identifying and attracting more dynamic prosumers to the community

Motivating new Prosumer to join the community

Keeping sustainable growth in prosumer base

Understanding and optimizing energy generation, consumption and sharing patterns

Understanding and managing negative or selfish behaviours in a community

Securing the community grid from cyber-attacks

Providing a trusted environment for the community to operate

Innovative sensor technology design and development

Risk assessment, management and mitigation

Ensure network availability and integrity

Load modelling and prediction under different weather conditions

This tutorial will discuss these issues and outline how these issues can be addressed. Specifically this tutorial will cover the following:

1. Introduction to the Prosumer Community Framework of Smart Grids for Community Formation, Community Growth and Community Management using crowd-sourcing and crowd-sensing approach to ensure long term and sustainable community participation in the energy generation process.
2. Introduction and interplay between Smart Grids, Wireless Sensor Networks and Cyber-P Systems infrastructure for efficiently capturing high quality sensor data for communication, network monitoring (i.e. load prediction, load balancing) and network visualization.
3. Introduction to smart grid communication protocols for load modelling and prediction, heterogeneous communication across different sensors, optimal service and resource discovery, price forecasting, incentive schemes for Prosumer motivation and participation, trust and risk management
4. Introduction to cyber-security infrastructure within the smart grid community to protect the critical energy infrastructure against malicious network attacks and anomalies.

Course details

Module A : Smart Grid

Day	Date	Lecture	Topic
Day 1	16th September 2016 ,Friday	Lecture 1 9:30 to 10:30 AM	Brief Introduction of Smart Grid . World Scenerio , India Scenerio
		Lecture 2 10:45A.M. to 12:15 PM	Identifying and attracting more dynamic Prosumer to the community
		Tutorial 1 . 2:00 to 5 PM	Prosumer Community Framework of Smart Grids for Community Formation. Problem solving session with

			examples
Day 2	17th September 2016 , Saturday	Lecture 3 : 9:30 to 10:30 AM I.	II. MOTIVATING NEW PROSUMER TO JOIN THE COMMUNITY
		Lecture 4: 10:45A.M. to 12:15 PM	Community Growth and Community Management using crowd-sourcing and crowd-sensing approach
		Tutorial 2. 2:00 to 5 PM	Long term and sustainable community participation in the energy generation process Problem solving session with examples
Day 3	18th September 2016 , Sunday	Lecture 5 : 9:30 to 10:30 AM	Growth in Prosumer base
		Lecture 6: 10:45A.M. to 12:15 PM	III. UNDERSTANDING NEGATIVE OR SELFISH BEHAVIOURS IN A COMMUNITY
		Tutorial 3. 2:00 to 5 PM	Managing negative or selfish behaviours in a community Problem solving session with examples
Day 4	19th September 2016 , Monday	Lecture 7: 9:30 to 10:30 AM	Understanding energy generation, consumption and sharing pattern
		Lecture 8: 10:45A.M. to 12:15 PM	Optimizing energy generation, consumption and sharing patterns
		Tutorial 4. 2:00 to 5 PM	Community participation in the energy generation Problem solving session with examples
Day 5	20th September 2016 , Tuesday	Lecture 9 : 9:30 to 10:30 AM	Introduction and interplay between Smart Grids, Wireless Sensor Networks and Cyber-P Systems infrastructure

		Lecture 10: 10:45A.M. to 12:15 PM	IV.SECURING THE COMMUNITY GRID FROM CYBER-ATTACKS
		Tutorial 5: 2:00 to 5 PM	Network monitoring (i.e. load prediction, load balancing) and network visualization. Problem solving session with examples
Module: B Cyber Security			
Day 6	21st September 2016 , Wednesday	9:30 to 10:30 AM	Examination on Module A
		Lecture 11: 10:45A.M. to 11:45 AM	V. INTRODUCTION TO SMART GRID COMMUNICATION PROTOCOLS FOR LOAD MODELLING AND PREDICTION
		Lecture 12: 12 to 1 P.M.	VI.PROVIDING A TRUSTED ENVIRONMENT FOR THE COMMUNITY TO OPERATE
		Tutorial 6. 2:00 to 5 PM	Heterogeneous communication across different sensors, Problem solving session with examples
Day 7	22nd September 2016 , Thursday	Lecture 13 : 9:30 to 10:30 AM	Innovative sensor technology design and development
		Lecture 14: 10:45A.M. to 12:15 PM	Price forecasting
		Tutorial 7. 2:00 to 5 PM	Optimal Communication service and resource discovery Problem solving session with examples
Day 8	23rd September 2016 , Friday	Lecture 15 : 9:30 to 10:30 AM	VII. RISK ASSESSMENT, AND MANAGEMENT

		Lecture 16: 10:45A.M. to 12:15 PM	VIII. RISK MITIGATION
		Tutorial 8. 2:00 to 5 PM	IX. INCENTIVE SCHEMES FOR PROSUMER MOTIVATION AND PARTICIPATION, TRUST AND RISK MANAGEMENT Problem solving session with examples
Day 9	24th September 2016 , Saturday	Lecture 17 : 9:30 to 10:30 AM	Introduction to cyber-security infrastructure within the smart grid community
		Lecture 18: 10:45A.M. to 12:15 PM	X. ENSURE NETWORK AVAILABILITY AND INTEGRITY
		Tutorial 9. 2:00 to 5 PM	Cyber-security infrastructure within the smart grid community Problem solving session with examples
Day 10	25th September 2016 , Sunday	Lecture 19 : 9:30 to 10:30 AM	Load modelling prediction under different weather conditions
		Lecture 20: 10:45A.M. to 12:15 PM	Malicious network attacks and anomalies
		Tutorial 10. 2:00 to 3:00 PM	Cyber-security infrastructure within the smart grid community to protect the critical energy infrastructure against malicious network attacks and anomalies Problem solving session with examples
		3:00 PM to 5:00PM	Examination on Module B for the Participants And Certification

Teaching Faculty

Dr. Vidyasagar Potdar

Dr. Vidyasagar Potdar is a Senior Research Fellow at Curtin University, Australia. His key areas of research include Smart Grids, Cyber Physical Systems and Information Security.

He has published more than 125 scientific research publications in journals and conferences. His research has been widely cited, so far he has 1345 citations and his h-index is 19 and i10 index is 41. He has attracted more than one million dollars in research funding in the areas of smart grids and sustainable development.

He regularly reviews articles for top international journals including IEEE Transactions on Industrial Electronics, IEEE Transactions on Information Security and Forensics, IEEE Transactions on Industrial Informatics, Journal of Systems and Software. He is also a guest editor for IEEE Transactions on Industrial Electronics and IEEE Transactions on Industrial Informatics.

He has organized more than 25 international workshops at IEEE and ACM conferences worldwide and was the General Chair for CEAS 2011, CUBE 2012 & CUBE 2013. He has more than 10 years of full time research experience and in this period he was involved in the management of a Multi-Disciplinary Research Institute at Curtin University, where he took the responsibility of research commercialization, research mentoring, business development and research student recruitment.

Who can attend?

- Executives, engineers and researchers from, service and government organizations including R&D laboratories and Power Corporations.
- Students at all levels (MSc/M.Tech/PhD) or Faculty from reputed academic institutions and technical institutions.

Registration Fees

Participants from abroad : US \$500

Industry/ Research Organizations:

Any of two modules: Rs. 3000/-

All modules: Rs. 5000/-

Academic Institutions:

All modules :

Course fee for non students: Rs. 3000/-

Course fee for students: Rs. 2000/-

The above fees include all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges. The individual course participants will have to borne the charges for their food, transport and accommodation separately. The external participants will be provided accommodation on payment basis.

Course Coordinators

Champa Nandi, Assistant Professor

Principal Coordinator

Department of Electrical Engineering, Tripura University (A Central University)

Tripura

Tel: +91 3812379244 (O),

+91 946502334

Email: cnandi@tripurauniv.in

SMART GRID: SECURE AND SUSTAINABLE ENERGY

Overview

Electricity costs are predicted to skyrocket in the coming years and it's expected to double over the next 5 years due to challenges in resources development and climate change, and this is a worldwide issue.

Smart Grid achieves bidirectional energy and information flow between the energy user and the utility grid, allowing energy users to generate energy and share with the utility grid or with other energy consumers.

"Prosumer" is the energy user who consumes as well as generates energy and they form a "Prosumer Community Smart Grid". The key objective of a Prosumer community smart grid is to be self-sufficient and sustainable and to share the excess energy amongst the community first and then auction the rest to the utility grid.

Modules	Module A : Smart Grid	16 th September – 20 th September 2016
	Module B : Cyber Security	21 st September – 25 th September 2016
	Number of participants for the course will be limited to fifty.	
You Should	Executives, engineers and researchers from, service and government organizations including R&D laboratories and Power Corporations	
Attend If...	Organizations including R&D laboratories. Students at all levels (MSc/M.Tech/PhD) or Faculty from reputed academic institutions and technical institutions.	
	Academic institutions and technical institutions.	
Fees	The participation fees for taking the course is as follows:	
	Participants from abroad : US \$500	
	Non-students (i.e. academic, industry participants etc.): Rs. 3000/-. Industry/ Research Organizations: Any of two modules : Rs. 3000/- , All modules : Rs. 5000/-	
	Students: Rs. 2000/-	
	The above fee include all instructional materials, computer use for tutorials and assignments,	
	laboratory equipment usage charges, 24 hr free internet facility. The participants will be provided	
	with accommodation on payment basis. The individual course participants will have to borne the	
	Charges for their food transport separately.	

The Faculty



Dr. Vidyasagar Potdar is a Senior Research Fellow at Curtin University, Australia. His key areas of research include Smart Grids, Cyber Physical Systems and Information Security. He has attracted more than one million dollars in research funding in the areas of smart grids and sustainable development.

Course Co-ordinator

Champa Nandi, Assistant Professor
Principal Coordinator
Department of Electrical Engineering,
Tripura University
(A Central University)
Tripura
Tel: +91 3812379244 (O),
+91 946502334
Email: cnandi@tripurauniv.in

.....
<http://www.gian.iitkgp.ac.in/GREGN>

REGISTRATION CUM ACCOMODATION REQUEST FORM

(To reach electronically by 1st September 2016 and hard copy by 5th September, 2016)

SMART GRID: SECURE AND SUSTAINABLE ENERGY

16th September 2016 to 25th September 2016

Department of EE, Tripura University, Suryamaninagar 799022

Name(Block Letters):..... M/F:.....

Designation/Professional Title:

.....

Organization:.....

Address:.....

.....

.....

.....

.....

Tel.: Mobile:

Email:

Application Id (Generate during One time registration at GIAN portal of IIT Kgp):

.....

Accommodation Required @ Rs. 1200.00/day (Yes/No) :

Duration (in dd/mm/yy):

The registration fee of Rs.has been paid via Demand Draft No.....in favour of “Registrar, NIT Agartala” payable at SBI, NIT Agartala branch. Demand Draft has been enclosed herewith.

Date:

Signature

Registration Process

Step 1: One time Registration

Registration for GIAN courses is not free because of constraint in the maximum number of participants allowed to register for a course. In order to register for any course, candidate will have to first get them registered to GIAN Portal of IIT Kharagpur using the following steps:

1. Create login and password at <http://www.gian.iitkgp.ac.in/GREGN/index>
 2. Login and complete the registration form.
 3. Select courses
 4. Confirm your application and payment information.
 5. Pay **Rs. 500/-** (non-refundable) through online payment gateway.
6. Download and print “**pdf file**” of your enrolment application form for your personal records and for further communications.

Step 2: Institute Registration

1. Institute registration process is an offline process. Interested candidates are requested to download the Registration Form.

2. Course Fee:

Participants from abroad: **US \$500**

Industry/ Research Organizations:

Any of two modules : Rs. 3000/-

All modules : Rs. 5000/-

Academic Institutions:

All modules :

Course fee for non students: Rs. 3000/-

Course fee for students: Rs. 2000/-

3. The Registration fee has to be paid via Demand Draft, in favour of “**Registrar, Tripura University**” payable at **SBI, Tripura University** branch.
4. Scan copy of the filled in “**Registration Form**” along with scan copy of “**Demand Draft**” and Application form generated in **Step 1** must be sent via email to the Programme Coordinator on or before 1st September 2016. Hard copy of the above- mentioned documents must reach to the Programme Coordinator on or before 5th September 2016.

TWO DAYS NATIONAL WORKSHOP ON

HOME AUTOMATION SYSTEM

10th -11th November, 2016

JOINTLY ORGANIZED BY

DEPARTMENT OF ELECTRICAL ENGINEERING
TRIPURA UNIVERSITY, SURYAMANINAGAR

AND

TECHVRIDDHI, IN ASSOCIATION WITH ALCHERINGA'16, IIT GUWAHATI

INTRODUCTION TO WORKSHOP

Recent advancements in technology enable smarter homes where everything from fans to lights can be operated automatically/ remotely, saving energy and human effort. In this course, you will develop a Home Automation System using Bluetooth technology. The system you develop allows you to remotely control home appliances with your Bluetooth-enabled Smartphone and a special Android application. The system is fitted with a Bluetooth module, microcontroller and relay switches to automatically control the appliances. Bluetooth connectivity is ideal for this automation project because it works within the range of your home.

By participating in this workshop, you will practically learn about Bluetooth technology, basic framework of a home automation system

VENUE

Department of Electrical Engineering
Tripura University, Suryamaninagar
West Tripura, PIN—799022

REGISTRATION FEE: Rs. 600/- per Participant



WORKSHOP CONTENTS

The following topics are to be covered in the Workshop

- » **INTRODUCTION TO ROBOTICS**
- » **ELECTRONICS & CIRCUIT DESIGN**
- » **INTRODUCTION TO AVR MICROCONTROLLER**
- » **INTRODUCTION TO EMBEDDED C PROGRAMMING**
- » **SENSORS**
- » **BLUETOOTH COMMUNICATION**
- » **HOME AUTOMATION SYSTEM**

INVITED SPEAKERS

Expert Faculty Members from IIT Guwahati and other Reputed Institutes of India in the related field.

IMPORTANT DATES

- Last date of receipt of filled in Application form (via mail only): **November 2nd 2016.**
- Last date for communication to the selected candidates: **November 3rd, 2016.**
- Last Date of Registration: **November 4th, 2016.**
- Program Duration: **November 10th -11th, 2016.**

NB: No. of seats are limited and will be selected in First Come First Serve Basis
University Website: www.tripurauniv.in

APPLICATION FORM

Name:
Designation:
Qualification:
Organization:
Mailing Address:

Pin Code:
State:
Phone:
Fax:
Email:

Signature of the Candidate

Signature of Head of the Department/Institute/Authority with seal.

NATIONAL WORKSHOP ON HOME AUTOMATION

10th -11th NOVEMBER, 2016

ORGANIZING COMMITTEE

PATRON:

Prof. A.K. Ghosh
Vice-Chancellor, Tripura University

PRESIDENT:

**Prof. M.K. Singh, Dean Faculty of
Science**
Tripura University

CO-ORDINATOR:

Dr. Champa Nandi
Assistant Professor & HOD(I/C)
Department of EE, TU

JOINT-COORDINATOR:

Mrs.Sangita Das Biswas,
Assistant Professor,
Department of EE, TU

ORGANIZING COMMITTEE:

Mrs. Gagari Deb,
Asst. Prof. EE, TU
Mr. Brajagopal Das,
EE,TU

ABOUT TRIPURA UNIVERSITY

Tripura University is Central University located at Suryamaninagar about 8 km away from Agartala City. Established on 2nd October, 1987. The university is having 35 departments offering Master Degree:34, Certificate: 1, IMD: 7, Diploma: 4 courses along with Ph.D. in 35 subjects. The University is having 52 affiliated colleges all over Tripura and ranked 88 in MHRD University ranking in India.

HOW TO REACH TRIPURA UNIVERSITY

Air: Agartala is well connected by air line with Indian Airlines, JetKonnnect, Indigo, Spicejet which connects Kolkata, Guwahati, Bangalore, Imphal.

Bus: Agartala is connected with Guwahati through Bus. It is also connected to Kolkata via bus which passes through Bangladesh

Rail: Agartala railway station is directly connected to Guwahati, Silchar, Lumding Station by train.

NB: Tripura University is about 8 km. away from main city of Agartala

HOW TO APPLY FOR THE WORKSHOP?

To apply for the workshop please follow the steps as mentioned below:

1. Fill the application in the prescribed form present in the brochure.
2. Send the scanned copy dully signed by the participant as well as Head of the Department/Institute/Authority with seal to cnandi@tripurauniv.in on or before the last date as specified.
3. The confirmed participant has to register for the workshop in the **Department of Electrical Engineering, Tripura University** by paying the Registration Amount on or before 4th November, 2016

WHO SHOULD APPLY?

The participant may be a Teaching Faculty, Industry personnel, Researcher from any research organization, or student from any Technical Institute/University.

NB: No TA/DA shall be entitled. However Accommodation can be arranged in the University Guest on Payment basis subject to the availability.

Contact Us:

Department of Electrical Engineering
Tripura University, Suryamaninagar, Tripura-799022
Ph: +91-94364502334 / cnandi@tripurauniv.in



In association with

THE ANNUAL CULTURAL EXTRAVAGANZA
ALCHERINGA'16
INDIAN INSTITUTE OF TECHNOLOGY, GUWAHATI



presents

NATIONAL LEVEL CHAMPIONSHIP & WORKSHOP SERIES



HIGHLIGHTS

1. Practical Hands on Session
2. Hardware tool kit will be given per group
3. All certificates on the behalf of Alcheringa, IIT Guwahati powered by Technospecies Global Solution

Eligibility Criteria of Participation: All streams in Engineering

Organized By : Department of EE, Tripura University & Techvridhi'16 in asso. with Alcheringa'16 IIT Guwahati

STAGES

1. Home Automations Workshop @ Zonal Centre
2. Competition & Certificate Distribution
3. Grand Finale @ IIT Guwahati campus during Alcheringa 2017

Event Details:-

Event Center: Department of EE, Tripura University

Fee: 600/-

Date: 10th -11th November 2016

Faculty Co-ordinator : Dr. Champa Nandi

Joint Co-ordinator : Mrs. Sangita Das Biswas

Student Co-ordinator: Mr. Brhma Nand Thakur

Joint Co-ordinator : Mr. Partha Pratim Chakraborty



WIN ACCOLADES &
PRIZES @ FINALE

Home Automation Workshop

Technospecies Global Solution | Info@technospecies.com | +91-7065502303 | www.technospecies.com/techvridhi |

ATTRACTIONS
Controlling Home appliances, Home
appliances via bluetooth, Smart
Water Plantation, Water
Level Indicator

TRIPURA UNIVERSITY

NOTE

Reference No.
F.TU/SOC/Workshop/2016/1

Date: 14.07.16

Date

This is regarding organizing a Two day workshop in the Department of Sociology, TU, on the 12th & 13th August 2016. The proposed workshop will be on "Doing Sociology" largely for teachers of Sociology. Workshop will be divided into two sessions with a keynote speech by Prof. Biswajit Ghosh on 'Invitation to Sociology'.

The Agendas for 2 sessions:

1. Challenges of teaching and learning Sociology
2. Doing Sociology: Prospects and Future

The Dept. of Sociology will be the organizer and participants (mainly teaching faculties) will be invited from University, colleges, institutes across the region. The resource persons will be Prof. Biswajit Ghosh, Professor Sociology Bardwan University, West Bengal and Prof. G. Ram, Professor Sociology, Assam University, Silchar. Since both of them are the UGBOS external subject expert and will be present on the 12th of August for 4th UGBOS meeting, therefore, their travel expenses will be taken care of the UGBOS meeting grant. Thus, we will be requiring a workshop grant around Rs. 10,000 to cover the local TA, publicity, food refreshment and certificate of participation.

This is for your kind perusal and doing the needful.

Sharmila Chhotaray 14/7/16
Head In-charge, Department of Sociology
(Dr. Sharmila Chhotaray)

Comments on (A)

18/7/16

FO (i/c)

pl. furnish —

Financial assistance drawn
by the deptt. during this financial year

19/7/16.




XII plan
Seminar

ef/charan

Rupini

SCHEDULE

One Day WORKSHOP on 'Doing Sociology' 23rd September 2016 by Dept. of Sociology Tripura University

Date/Day	Time	Event	Speakers	Topic
23rd September 2016 Friday	10.00 am	Registration		
	10.15 am	Welcome Address	Dr. Sharmila Chhotaray	
	10.20 am	Introduction to workshop	Dr. Rajeev Dubey	
	10.25 am	Introduction and felicitation of Resource Persons	<i>Pragya & Bishal</i>	
	10.30 am	Self-Introduction of the workshop Participants		
	10.40 am	Key note Address	Prof. Biswajit Ghosh	" Invitation to Sociology"
11.15 pm- 11.30pm 	11.30 am — 1. 15 pm	First Session	Prof. G. Ram	Doing sociology: Prospects and Future
			Prof G. Ram & Dr. Bijan Mandal	Doing Sociology in North-East/Tripura
			Prof. Biswajit Ghosh & Prof G. Ram	Towards an Understanding of Under-graduate Syllabus
1.15 pm- 2.15 pm 	2.15 pm- 4.15 pm	Second Session	Prof Biswajit Ghosh	Challenges of Teaching and Learning Sociology
			Prof. Biswajit Ghosh & Dr. Sharmila Chhotaray	Preparing Readers
			Prof Biswajit Ghosh & Dr. Rajeev Dubey	Art of Setting Question Papers and Evaluating Answer Scripts
4.15 pm- 4.30 pm 	4.30 pm	Thanking	Ms. Parama Chakma	



Department of Sociology, TRIPURA UNIVERSITY

(A Central University)

Suryamaninagar - 799022, Tripura (W), INDIA

Phone: (0381) 237 9249, 237 9250

Date: 05/09/2016

To,

The Director,
Directorate of Distance Education,
Tripura University,
(A Central University)
Suryamaninagar

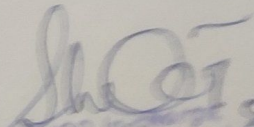
Sub: Booking of DDE seminar hall for Workshop in the Department of Sociology, on 23rd of September 2016

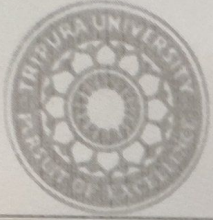
Dear Sir,

I would like to put into your kind notice that Department of Sociology, Tripura University is organising a One day workshop on "Doing Sociology: Prospects and Future" on 23rd September 2016 from 10.00 am to 05.00 pm. I would request you to kindly book the Seminar Hall on 23rd of September 2016.

Thanking you in anticipation.

Sincerely yours,


Sharmila Chhotaray
Head In-Charge
Department of Sociology



Department of Sociology, TRIPURA UNIVERSITY

(A Central University)

Suryamaninagar - 799022, Tripura (W), INDIA

Phone: (0381) 237 9249, 237 9250

No. F.T.U/SO/SL/6/2016

Dated 24th Sept 2016

To,
Prof. G. Ram
Department of Sociology, Assam University,
Silchar- 788011, Assam, India

Sub: Delivery of two Lectures

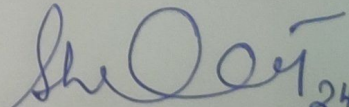
Dear Prof. G. Ram,

Please accept my thanks and appreciation for your special lecture titled '*Writing Dissertation*' in the Lecture hall in the Department of Sociology on 21/09/16 and special talk "*Doing Sociology in North-East*" in the one day workshop on 'Doing Sociology' 23rd September 2016 by Dept. of Sociology Tripura University.

I look forward to the next opportunity to have more lectures in future.

Thanking you.

Sincerely


Dr. Sharmila Chhotaray 24/11/16
HOD/ In-Charge
Assistant Professor
Dept. of Sociology







National School of Drama

INVITATION

The Department of Sociology, Tripura University & National School of Drama (TIE Wing) Tripura, invite you to a Three day Theatre-In-Education Workshop on 'Acting for Creativity' from 3rd Oct to 5th Oct 2016.

Venue: Department of Sociology

Day Care Building

Time: 10 A.M. to 4 P.M.

TWO DAYS WORKSHOP ON ANDROID

26th -27th SEPTEMBER, 2016



JOINTLY ORGANIZED BY
DEPARTMENT OF INFORMATION TECHNOLOGY
TRIPURA UNIVERSITY, SURYAMANINAGAR
AND

TECHVRIDDHI, IN ASSOCIATION WITH ALCHERINGA'16,
IIT GUWAHATI



INTRODUCTION TO WORKSHOP

Android App Development Workshop mainly focuses on how to use Android OS for building your own Android Application. Only the basic knowledge of programming is required for Android App Development, you do not have to be a geek for it! The workshop will start from the basics like designing layouts and building complex layouts. Once the basics of Android are done we will begin with building Apps. The duration of this workshop will be two consecutive days, with eight hours session each day in a total of sixteen hours, properly divided into theory and hand on practical sessions. At the end of this workshop, a competition will be organized among the participating students where each participating student will get Certificate of Participation and the Winners will get Certificate of Merit.

Learn to develop applications in the latest operating system with practical implementation and begin managing your own cool applications like a professional at this workshop. Attendees will be provided with instructions to build and manage new cool applications. What's more you can even sell out these application and earn good money.! Let a trained professional show you how to create and manage Android Applications.

VENUE

Department of Information Technology
Tripura University, Suryamaninagar
West Tripura , PIN—799022

WORKSHOP CONTENTS

The following topics are to be covered in the workshop

- » Introduction to Android
- » Android Architecture
- » Setup of Android
- » ANDROID APPLICATION FUNDAMENTALS
- » USER INTERFACE
- » MAIN BUILDING BLOCK
- » ANDROID MEDIA API
- » Call
- » Short Messaging Service (SMS)
- » Working on Splash Screen

INVITED SPEAKERS

Expert Faculty Members from IIT Guwahati and other Reputed Institutes of India in the re-

IMPORTANT DATES

- Last date of receipt of filled in Application form (via mail only) **September 19th, 2016.**
- Last date for communication to the selected candidates: **September 20th, 2016.**
- Last Date of Registration **September 22th , 2016.**
- Program Duration **September 26th-27th, 2016.**

APPLICATION FORM

Name:
Designation:
Qualification:
Organization:
Mailing Address:

Pin Code:
State:
Phone:
Fax:

Email:

Signature of the Candidate

Signature of Head of the Department/Institute/Authority with seal.

REGISTRATION FEE : Rs. 600/- per Participants

NB: No. of seats are limited and will be selected in First Come First Serve Basis

University Website: www.tripurauniv.in

NATIONAL WORKSHOP ON ANDROID

26th -27th SEPTEMBER, 2016

ORGANIZING COMMITTEE

PATRON:

Prof. A.K. Ghosh
Vice-Chancellor, Tripura University

PRESIDENT:

Prof. M.K. Singh, Dean Faculty of Science
Tripura University

COORDINATOR:

Mr. Shibendu Debbarma
Assistant Professor & HOD(I/C)
Department of IT, TU

JOINT-COORDINATOR:

Mr. Swarup Nandi, Lecturer, IT, TU

TREASURERS

Mr. Jayanta Pal, Asst. Prof. IT, TU
Mr. Sumanta Saha, Lecturer, IT, TU

ORGANIZING MEMBERS:

Dr. Abhisek Das, Asst. Prof., IT, TU
Mr. Alak Roy, Asst. Prof., IT, TU
Mr. Bhaskar Biswas, IT, TU
Mrs. Tandra Sarkar, IT, TU

ABOUT TRIPURA UNIVERSITY

Tripura University is Central University located at Suryamaninagar about 8 km away from Agartala City. Established on 2nd October, 1987. The university is having 35 departments offering Master Degree: 34, Certificate: 1, IMD: 7, Diploma: 4 courses along with Ph.D. in 35 subjects. It is having 52 affiliated colleges all over Tripura. University ranked 88 in MHRD University ranking in India.

HOW TO REACH TRIPURA UNIVERSITY

Air: Agartala is well connected by air line with Indian Airlines, JetKonnnect, Indigo, Spicejet which connects Kolkata, Guwahati, Bangalore, Imphal.

Bus: Agartala is connected with Guwahati through Bus. It is also connected to Kolkata via bus which passes through Bangladesh

Rail: Agartala railway station is directly connected to Guwahati, Silchar, Lumding Station by train.

NB: Tripura University is about 8 km. away from main city of Agartala

HOW TO APPLY FOR THE WORKSHOP?

To apply for the workshop please follow the steps as mentioned below:

1. Fill the application in the prescribed form present in the brochure.
2. Send the scanned copy duly signed by the participant as well as Head of the Department/Institute/Authority with seal to ittuworkshop@gmail.com on or before the last date as specified.
3. The confirmed participant has to register for the workshop in the **Department of Information Technology, Tripura University** by paying the Registration Amount on or before 22th September, 2016

WHO SHOULD APPLY?

The participant Can be a Teaching Faculty, Industry personnel, Researcher from any research organization, or student from any Technical Institute/University.

NB: No TA/DA shall be entitled. However Accommodation can be arranged in the University Guest on Payment basis subject to the availability.



Contact Us:

Department of Information Technology
Tripura University, Suryamaninagar, Tripura-799022
Ph: +91-9436454409 / E-mail- ittuworkshop@gmail.com



TWO DAYS WORKSHOP ON WEB DESIGN

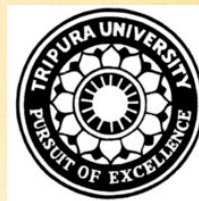
28th -29th SEPTEMBER, 2016

JOINTLY ORGANIZED BY

DEPARTMENT OF INFORMATION TECHNOLOGY
TRIPURA UNIVERSITY, SURYAMANINAGAR

AND

TECHVRIDDHI, IN ASSOCIATION WITH ALCHERINGA'16, IIT GUWAHATI



INTRODUCTION TO WORKSHOP

Even if you don't consider yourself a creative person, it's still a good idea to learn web design. No matter whether you want to make static websites or dynamic web applications, design is an important part of the process. The design is the first thing people notice when they arrive on a website, and if it's not good enough, they'll leave.

If you do identify yourself as a creative person, you might even consider a career as a web designer. Today, there is a huge need for competent web designers with up-to-date skills. It's not an opportunity to be sneezed at.

Learn coding and you'll be a valuable asset to many. But learn coding and design and you'll be second to none!

The web design process starts with a visual concept, which you could sketch by hand or with software like Photoshop. Then, you use HTML and CSS to build the website. HTML and CSS are the codes for writing web pages, handles the basic structure and 'bones' of your page, while CSS handles the style and appearance.

VENUE

Department of Information Technology
Tripura University, Suryamaninagar
West Tripura, PIN—799022

WORKSHOP CONTENTS

The following topics are to be covered in the workshop

- » HTML
- » PHP
- » PHP & MYSQL
- » WEBSITE HOSTING
- » USE OF FTP CLIENT FILEZILLA

INVITED SPEAKERS

Expert Faculty Members from IIT Guwahati and other Reputed Institutes of India in the related field.

IMPORTANT DATES

- Last date of receipt of filled in Application form (via mail only): **September 19th, 2016.**
- Last date for communication to the selected candidates: **September 21th, 2016.**
- Last Date of Registration: **September 23rd, 2016.**
- Program Duration: **September 28th-29th, 2016.**

APPLICATION FORM

Name:

Designation:

Qualification:

Organization:

Mailing Address:

Pin Code:

State:

Phone:

Fax:

Email:

REGISTRATION FEE : Rs. 600/- per Participant

NB: No. of seats are limited and will be selected in First Come First Serve Basis

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NATIONAL WORKSHOP ON WEB DESIGN

28th -29th SEPTEMBER, 2016

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Vice-Chancellor, Tripura University

PRESIDENT:

Prof. M.K. Singh, Dean Faculty of Science
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NB: No TA/DA shall be entitled. However Accommodation can be arranged in the University Guest on Payment basis subject to the availability.



Contact Us:
Department of Information Technology
Tripura University, Suryamaninagar, Tripura-799022
Ph: +91-9436454409 / E-mail- ittuworkshop@gmail.com



भारतीय दार्शनिक अनुसंधान परिषद्

(भारत सरकार, मानव संसाधन विकास मंत्रालय)

INDIAN COUNCIL OF PHILOSOPHICAL RESEARCH

(Government of India, Ministry of Human Resource Development)

No.3-51/2016-17/P&R/ICPR

22 February 2017

Sanction Order

Sanction of the Indian Council of Philosophical Research is hereby accorded for the payment of a grant of Rs 4,00,000/- (Rupees four lakhs only) in favour of Registrar, Tripura University, Tripura to be disbursed to Mohan Debbarma, Director, National Seminar, Tripura University, Tripura for organizing a Seminar on Applied Ethics during 20-22 February 2017. Out of the grant sanctioned above, a grant of Rs 3,60,000/ (Rs. Three lakhs sixty thousand only) is being released as 90% of grant and the remaining 10% will be released only after receipt of the audited statement and documents asked for as per the conditions stated below:

The grant is released subject to the following conditions:

1. Program report and photographs must be submitted via email to seminar.report@icpr.in (word format) within a week after the program is over.
2. The sanctioned amount should be utilized exclusively for the purpose for which it has been sanctioned for the Seminar/Conference/Workshop, etc. and as per the budget provided by the organization, approved by the Council, and the guidelines as attached. Regular account shall be maintained by keeping receipts / vouchers with regard to expenditure incurred out of the grant including travel and TDS, and the same should be consistently reflected in the Statement of expenditure. Unspent balance out of the ICPR grant, if any, be refunded to the Council forthwith. The excess expenditure made for the programme will not be reimbursed by the Council.
3. **Earnings & Expenditure:**
 - (a) Any interest earned from the grant amount in the Saving Bank Account of the Institute of the grantee to which the grant is disbursed may be accounted for as a receipt for the above programme and the same should be taken as earning while making the statement of expenditure.
 - (b) Financial Assistance / donations or receipts from any other sources for the same event may also be mentioned in total earning/receipts, and expenditure mentioned in Audited Statement of Account (ASA) and Utilization Certificate (UC). The expenditure may be incurred on the basis of the budget submitted and as per the guidelines only.
 - (c) TDS deducted may be deposited with Income Tax Department in time under the TIN Number of grantee organization and a copy of the TDS certificate may be provided to the Council along with Utilization Certificate.
 - (d) Any payment made from the grant should be supported by Receipts/Cash Bills. Any expenditure settled above Rs.5000/- should be supported by a receipt duly signed on a revenue stamp.
 - (e) No assets such as cartridge/tonner/portable hard disk, etc. can be created out of the grant released. Hence, such items should not be purchased out of the grant amount.
 - (f) Strict economy may be maintained while spending the grant.
4. **Travel:** Standard T.A. form of the institution may be used for settlement of expenses on travel. Air travel, if any, should be allowed through apex fare of **Air India** only. If for unavoidable reasons, participants need to travel by airlines other than Air India see the download section of ICPR Website, some relaxation prescribed by Government of India.
5. **Submissions for Account Settlement:** Immediately after the event is over, the grantee shall submit to the Council the following:

E-mail: icpr@bol.net.in, icprhqrs@gmail.com Website: <http://www.icpr.in>

मुख्य कार्यालय : दर्शन भवन, 36 तुगलकाबाद इन्स्टिट्यूशनल एरिया, महरौली बंदरपुर रोड, नई दिल्ली - 110062 दूरभाष : 29901516 टेलिफैक्स : 29901516
Head office: Darshan Bhawan, 36, Tughlakabad Institutional Area, M.B. Road, New Delhi-110062 Cable: ICPHILRES Tel.: 29901516 Telefax: 29901516
लखनऊ कार्यालय : 3/9, विपुल खण्ड, गौमती नगर, लखनऊ- 226010 टेलिफैक्स : +91-522-2392636 E-mail: icprlkw@gmail.com
Lucknow Office : 3/9, Vipul Khand, Gormti Nagar, Lucknow-226010 Telefax: +91-522-2392636 E-mail: icprlkw@gmail.com

ICPR Sponsored National Seminar
on "Applied Ethics: Perspectives and Issues"
Date: 20th - 22nd Feb. 2021.
Organised by: Dept. of Philosophy, TCU.

Attendance Records of Local Participants

SL.No.	Full Signature	College	Mobile No(s).	Email. ID
1	Jekap Halam	GDC, Ramalpur, Dhalai Tripura	9862134262	jekapsvd05@gmail.com
2	J. Konarajana	B B M College Agf	943657240	drmonorajana66@gmail.com
3	Sibkanta Das	G.D.C Santibazar South Tripura	9862974429	sibkantedas@gmail.com
4	J. Debbasma	RKM Kailashahar (U) Tripura	949096 7462	debbarna.jachd@gmail.com
5	Jyotirmay Sharmu.	B. B. M. C.	9436554199	sharmajyotirmay5@gmail.com
6	Parimal Nama Das	GDC, Kmp	9436564412	parimalnama.das@gmail.com

National Seminar

on

APPLIED ETHICS

(Perspectives & Issues)

Background:

Human existence is value centric. The notion of 'ought' and 'ought not' are meaningful only in human domain. The non-human behaviour is determined by instincts or circumstantial conditions whereas human behaviour is purpose-driven. On account of possessing developed mind, man is capable of judging an action as right or wrong, desirable or undesirable. Ethical questions are relevant not only with regard to 'end' but also the 'means'. Ethical principles are normative in so far as they are regulative of human conduct and provide yardstick by which actions are adjudged as moral, immoral or a-moral. Though there are certain cardinal or foundational values which are universal norms or principles are determined with regard to context or situation. Hence, ethical questions or issues are context specific. Ethical norms are meant to be applied. In other words, if there is a norm which doesn't have actual or possible application it ceases to be norm *per se*. This lends rationale to different areas of Applied Ethics such as Environmental Ethics, Business Ethics, Biomedical Ethics, Media Ethics, Legal Ethics, Literary Ethics, Cyber Ethics, War Ethics etc.

Objectives:

The proposed seminar shall provide a room for extensive and indepth discussions on five principal areas of Applied Ethics, namely, Environmental Ethics, Business Ethics, Biomedical Ethics, Media Ethics and Legal Ethics. This would provide a shared forum for teachers, research scholars and students not only to update their knowledge in areas of Applied ethics but come out with specific ethical modules or paradigms for others to follow, making room for transition from ethical knowledge to praxis.

Justification:

The world across, is engulfed in a crisis of an unprecedented kind. It is erroneous to hold that the crisis today, has resulted from overpopulation or dearth of natural resources because the planet 'Earth' has enough for our need but hardly enough for our greed. The crisis essentially pertains to 'human psyche' resulting in erroneous perception of Man about Nature, the society around and his relationship with rest of the creation. The global crisis is essentially, a crisis of values. Such seminars on "Applied Ethics" shall not only help the scholars to have right perception of 'end' and 'means' but shall sensitise them about the urgency of value-wedded life in the individual as well as collective domain.

Schedule of the seminar:

The proposed seminar shall span over three consecutive days involving scholars from across different parts of the country. It shall have seven sessions including two short sessions devoted to inaugural and valedictory function.

The five sessions shall be devoted to presentation of papers and deliberation of five different areas of Applied Ethics namely; (a) Environmental Ethics, (b) Business Ethics, (c) Biomedical Ethics, (d) Media Ethics and (e) Legal Ethics.

Session-I	Environmental Ethics: The session on "Environmental Ethics" would be devoted to presentation of papers and discussion on different paradigm such as Anthropocentrism, Bio- centrism and Cosmo-centrism. Besides, there could be paper on Duties vis-à-vis Rights, Animal Rights, 'Live and let live' and other related areas and issues such as pollution, global warming, deep ecology etc.
	Business Ethics: The session shall be devoted to presentation

Session-II	of papers and deliberation on Ethics in Corporate Governance, Corporate Social Responsibility (CSR), Whistle blowing, Affirmative action and the ethical obligation of the management towards stakeholders, workers, consumers and people at large.
Session-III	Biomedical Ethics: This session shall deliberate on issues relating to Truth-telling vis-à-vis Confidentiality, Informed consent, Doctor-patient relationship, Euthanasia and Privacy.
Session-IV	Media Ethics: This session shall invite papers on different forms of Media with their accredited ethical norms for self-regulation. Besides, the participants shall deliberate upon the concept of objectivity, Media bias, Privacy, Freedom of the press. Besides, there could be discussions on the illicit fallout of Yellow journalism, Tabloid journalism.
Session-V	Legal Ethics: The session shall deliberate upon nature, function and duty of the court and the Bar towards the clients and their role in interpretation of law and dispensation of Justice without favour or prejudice. Apart from this the scholars may engage in discussions on relative role of judiciary in relation to the Legislative and Executive.



Speed Post

साहित्य अकादेमी

क्षेत्रीय कार्यालय

4 डि. एल. खान रोड, कलकाता 700 025

दूरभाष (033) 24191683, 24191706

ई-मेल : rs.rok@sahitya-akademi.gov.in

saekolkata@gmail.com

वेबसाइट : http://www.sahitya-akademi.gov.in

Sahitya Akademi

(National Academy of Letters)

REGIONAL OFFICE

4 D. L. Khan Road, Kolkata 700 025

Phone : (033) 24191683, 24191706

Fax : (033) 24191684

E-mail : rs.rok@sahitya-akademi.gov.in

saekolkata@gmail.com

Website : http://www.sahitya-akademi.gov.in

SAE. 012/NE/12395

9 March 2017

Sub: North-East Oral Literature Festival

Dear Professor Debbarma,

It is my pleasure to inform you that Sahitya Akademi is planning to organize North-East Oral Literature Festival in collaboration with the Department of Kokborok, Tripura University at the University campus, Suryamani Nagar, Tripura 799 022 on 19-20 March 2017. The programme will be inaugurated on 19 March 2017.

I would be grateful if you kindly propose the vote of thanks in the inaugural session of the festival.

I hope that you will be kind enough to accept our invitation. Kindly send your confirmation to saekolkata2@gmail.com.

With kind regards,

Yours sincerely,

(Goutam Paul)

Assistant Editor (in-charge)

Professor Sukhendu Debbarma
HOD, Department of Kokborok
Tripura University
Suryamaninagar
Tripura West
Agartala 799022
Tripura



Sahitya Akademi

and

**Department of Kokborok, Tripura University
organise**

North-East Oral Literature Festival

19-20 March 2017, Agartala







Concise report of the North-East Oral Literature Festival held in Tripura University (A Central University)

North-East Oral Literature Festival was organized by Sahitya Akademi in collaboration with the Department of Kokborok, Tripura University, held in Academic building-XI (eleven), Hall No. II on 19th and 20th March, 2017.

The inaugural programme of the festival started at 11:00 AM. Saroj Chaudhuri was the Chairman of the programme. Prof. Anjan Kumar Ghosh, Vice-Chancellor, TU could not attend the programme due to illness and the festival was inaugurated by Brajagopal Ray by lighting up the candle.

Sri. Biralal Debbarma, MA Kokborok, II Semester, TU was presented a folk song in Kokborok as the opening song.

Goutam Paul, Regional Secretary, Sahitya Akademi, Kolkata delivered a welcome address.

Chandra Kanta Murasing presented the keynote.

Prof. Sukhendu Debbarma, Head, Department of Kokborok, TU gave a vote of thanks.

The first session was chaired by Mr. Nanda Kumar Debbarma and listed participants for the session recited their poems.

The Second Session was presided over by Dr. Sylvanus Lamare and the listed participants for the session recited their poems.

The Third Session was presided over by Mr. Lyagson Tamsang and the listed participants for the session recited their poems.

The festival concluded with valedictory programme.

All together 182 participants including invited participants from North East India, students from Department of Kokborok, faculty members and others participated in the 2 days festivals.


21/03/2017
(BIMAN DEBBARMA)
Tripura University,
Suryanagar-799022

Mini MTTS - Agartala
Mathematics Training & Talent Search (MTTS) Programme
January 19-24, 2017
Department of Mathematics, Tripura University, Agartala

FUNDED BY **National Board for Higher Mathematics**



Introduction

The Mathematics Training & Talent Search (MTTS) Programme is one of the most popular and significant training programmes for the undergraduate/postgraduate students in India. The organizers of this programme receive a large number of applications from all parts of the country for participating in this programme. But due to limitation of resources and seats, a large number of deserving students do not get a chance to participate in the main camp of the MTTS programme. In order to cater to a large number of students at regional level, Mini-MTTS programme has been initiated which runs on the same line of the main MTTS programme. The aim of this programme is to promote mathematical thinking and expose young minds to the excitement of doing mathematics.

Academic Programme

The proceeding of the programme will include the following topics:

- Foundations and Set Theory
- Real Analysis
- Linear Algebra

The objective of the programme is to motivate and inspire the students to pursue their career in mathematics and mathematical research and enjoy the excitement of mathematics through discovery of the basic mathematical results by their own.

Who should apply?

- Students studying in **2nd year** of **B.Sc./ B.A.** having mathematics as one of the compulsory subjects.
- Preference will be given to the students studying in institutes in the states in the North East Region of India.
- Outstation participants will be provided with free food and lodging facilities for their stay during the programme and will be paid sleeper class train fare or bus fare (in case no train facility is available).
- The selection will purely be on the basis of academic career of the candidate & the recommendation from a teacher of mathematics, closely acquainted with the candidate.

How to Apply?

Please visit <http://mtts.org.in/programme-mtts/mini-mtts-tripura-2017>, fill in the online application form in the **link** provided there and send a signed copy of the printout of the application along with the Teacher's Recommendation letter to **Dr. Shyamal Debnath, Local Coordinator**, at the address provided above on or before 20th December, 2016. Please write "**APPLICATION TO MINI-MTTS**" on the top of the envelope containing the application form.

Venue and Dates

Venue: **Department of Mathematics,
Tripura University (A Central University),
Suryamaninagar, Agartala, Pin-799022**

Programme Duration: **19-24 January, 2017**

Online application during: **16 Nov. – 15 Dec., 2016**

Last date of receiving application: **20 December, 2016**

Date of announcement of the list of selected candidates:
25 December, 2016 (at MTTS website)

Note:

Selected participants should send their confirmation of participation to the Local Coordinator by e-mail on or before **3rd January, 2017** and they should report at the venue by **8:30 AM on 19 January, 2017**.

Programme Director

Prof. S. Kumaresan

Director, MTTS Programme

Department of Mathematics and Statistics

University of Hyderabad, Hyderabad-500046

Email: kumaresa@gmail.com

Academic Coordinator

Prof. Bhaba Kumar Sarma

Department of Mathematics, IIT Guwahati

Guwahati, Assam-781039

Email: bks@iitg.ernet.in

Local Coordinator, Mini-MTTS, Agartala

Dr. Shyamal Debnath

Department of Mathematics,

Tripura University (A Central University)

Suryamaninagar - 799022, Agartala

Email: debnathshyamal@tripurauniv.in

Phone: **+91-381-2379412 (O); +91-9436548365(M)**

राष्ट्रीय नाट्य विद्यालय
(टीआईई विंग) त्रिपुरा

त्रिपुरा सरकार के आई.सी.ए. एवं उच्च शिक्षा विभाग के सहयोग से



National School of Drama
(TIE Wing) Tripura

In collaboration with dept. of ICA & Higher Education, Govt. of Tripura

Ref. No. NSD/TRP/ACAD/ 126 /2016-17

September, 13, 2016

To,

*The Head of Hindi department
Tripura University*

Sir,

We are happy to inform you that National School of Drama (TIE Wing) Tripura is organizing **3days Theatre-In-Education workshop based on "Acting for Creativity" from August, 2016 to March, 2017 under the extension programme in Northeast.** This workshop is highly practical in nature given participants the opportunity to experience a wide range of tried and tested techniques of learning through theatre.

The topic creativity means new knowledge and option for new problems is important for 21st Century for making better world. We will provide expert & expenditure regarding workshop. Lunch/Tea & Certificate will also be given by us.

In this regard, you are requested to provide 30 participants who may be Graduate, Teacher, Theatre Person & those who want to work with children & one space for the workshop. We hope, you must send your consent as soon as possible so that we could include your place in our schedule. Please contact to Mr. Jagmohan Singh Negi, Cell no. 8414891445 for the further information.

Looking forward to your esteem support!

With warm sincerely,

Yours sincerely,

(Vijai Kumar Singh)
Camp Director



हिन्दी विभाग
त्रिपुरा विश्वविद्यालय, सूर्यमणिनगर
द्वारा आयोजित
एवं

केन्द्रीय हिन्दी संस्थान, क्षेत्रीय केन्द्र, शिलांग
तथा

नगर राजभाषा कार्यान्वयन समिति, ओएनजीसी, अगरतला
द्वारा प्रायोजित

द्वि-दिवसीय राष्ट्रीय संगोष्ठी

“भारतीय भाषाओं में लोक-साहित्य”

दिनांक : 17-18 मार्च, 2017

समय : 11 बजे, पूर्वाह्न

आयोजन स्थल : सभागार-01, भूतल,
अकादमिक भवन-11, त्रिपुरा विश्वविद्यालय

आयोजन समिति

संरक्षक

प्रो. अंजन कुमार घोष
माननीय कुलपति
त्रिपुरा विश्वविद्यालय

संगोष्ठी-अध्यक्ष

प्रो. सत्यदेव पोद्दार
अध्यक्ष, हिन्दी विभाग

एवं संकायाध्यक्ष, कला एवं वाणिज्य

संयोजिका

डॉ. मिलन रानी जमातिया
सहायक प्राध्यापिका, हिन्दी विभाग
मो. 08974009245

आयोजन-सचिव

डॉ. जय कौशल
सहायक प्राध्यापक, हिन्दी विभाग
मो. 09436168068

प्रो. चंदन चक्रवर्ती, संस्कृत विभाग, त्रिपुरा विश्वविद्यालय
डॉ. निर्मल दास, बांग्ला विभाग, त्रिपुरा विश्वविद्यालय
एवं हिन्दी विभाग के समस्त प्राध्यापक एवं छात्र-छात्राएँ।

सांस्कृतिक कार्यक्रम उपसमिति-

संयोजक - डॉ. आलोक सिंह, अतिथि अध्यापक, हिन्दी विभाग

सदस्य - डॉ. अरुणा सिंह, अतिथि अध्यापक, हिन्दी विभाग

डॉ. सीमा देबबर्मा, शोधार्थी, हिन्दी विभाग

डॉ. नबीना चाकमा, शोधार्थी, हिन्दी विभाग एवं

समेकित स्नातकोत्तर पाठ्यक्रम, एम.ए. के छात्र-

छात्राएँ एवं समस्त शोधार्थी

आवास एवं यातायात उपसमिति

संयोजक - डॉ. काली चरण झा, सहायक प्राध्यापक, हिन्दी विभाग

सदस्य - श्री मुनीन्द्र मिश्र, हिन्दी अधिकारी, त्रिपुरा विश्वविद्यालय

श्री राज बहादुर पुष्कर, शोधार्थी, हिन्दी विभाग

श्री बजरंग चौहान, शोधार्थी, हिन्दी विभाग

डॉ. नुकफाँटी जमातिया, शोधार्थी, हिन्दी विभाग

भोजन-उपसमिति-

संयोजक - डॉ. मनोज कुमार मौर्य, सहायक प्राध्यापक, हिन्दी विभाग

सदस्य - डॉ. चन्द्र शेखर चौबे, अतिथि अध्यापक, हिन्दी विभाग

डॉ. आलोक सिंह, अतिथि अध्यापक, हिन्दी विभाग

डॉ. सीमा देबबर्मा, शोधार्थी, हिन्दी विभाग

डॉ. नबीना चाकमा, शोधार्थी, हिन्दी विभाग

तकनीकी उपसमिति-

संयोजक - डॉ. चन्द्र शेखर चौबे, अतिथि अध्यापक, हिन्दी विभाग

सदस्य - श्री बजरंग चौहान, शोधार्थी, हिन्दी विभाग

सुश्री सुधा त्रिपाठी, शोधार्थी, हिन्दी विभाग

स्वैच्छिक उपसमिति-

संयोजक - डॉ. चन्द्र शेखर चौबे, अतिथि अध्यापक, हिन्दी विभाग

सदस्य - डॉ. आलोक सिंह, अतिथि अध्यापक, हिन्दी विभाग

समेकित स्नातकोत्तर पाठ्यक्रम, एम.ए. के छात्र-छात्राएँ
एवं समस्त शोधार्थी





संगोष्ठी का उद्देश्य-

लोक-साहित्य किसी भी देश के सामाजिक-सांस्कृतिक इतिहास का ऐसा मौखिक दस्तावेज होता है, जिसमें जीवन का सुख-दुख, हर्ष-विषाद, आशा-निराशा आदि का प्रतिबिम्बन देखा जा सकता है। लोक-गीत, लोक-गाथा, लोक-कथा और लोक-नाट्य जैसे-लोक-साहित्य के कई भेद हैं, जिन्हें संरक्षित और संवर्धित करने में पुरुषों से अधिक महिलाओं ने अपनी महत्वपूर्ण भूमिका निभाई है। लेकिन मुश्किल यह है कि हम सब अपनी मातृभाषाओं में मौजूद लोक-साहित्य के विविध रूपों से तो थोड़ा-बहुत परिचित होते हैं, पर इसके अलावा अन्य भाषाओं में मौजूद लोक-साहित्य एवं उसके रूपों से हमारा परिचय नहीं के बराबर होता है। लेकिन इधर कुछ समय से लोक-साहित्य की महत्ता के प्रति जागरूकता बढ़ी है और व्यक्तिगत एवं सांस्थानिक दोनों स्तरों पर उसके संरक्षण और अभिलेखन के प्रयास शुरू हो गए हैं। जाहिर है, सम्पूर्ण भारतीय भाषाओं के लोक-साहित्य को मध्य परस्पर संवाद आज के समय की सबसे बड़ी

आवश्यकता है, ताकि भारतीय-साहित्य, विश्व-साहित्य एवं तुलनात्मक-साहित्य जैसी अवधारणाओं के परिप्रेक्ष्य में न केवल लोक-साहित्य के संदर्भों को समझा जा सके, वरन् पूर्वोत्तर सहित देश की सभी छोटी-बड़ी भाषाओं में सदियों से उपलब्ध लोक-साहित्य में पारम्परिक, ऐतिहासिक, सामाजिक और सांस्कृतिक स्तर पर एकता एवं विविधता के सूत्रों की पहचान हो सके।

इसी को ध्यान में रखकर त्रिपुरा विश्वविद्यालय का हिन्दी विभाग, केन्द्रीय हिन्दी संस्थान, शिलाँग केन्द्र तथा नगर राजभाषा कार्यान्वयन समिति, ओएनजीसी, अगरतला के सहयोग से भारतीय भाषाओं में लोक-साहित्य विषय पर आगामी 17-18 मार्च, 2017 को द्वि-दिवसीय राष्ट्रीय संगोष्ठी का आयोजन कर रहा है। उम्मीद है, प्रस्तुत संगोष्ठी भारतीय भाषाओं के लोक-साहित्य के विभिन्न पक्षों की एक मंच पर चर्चा कराकर साहित्य एवं संस्कृति के एक बड़े अभाव की पूर्ति में सहायक होगी। विषय की व्यापकता को देखते हुए इसे निम्नलिखित उप-विषयों में बाँटा गया है:

1. भारतीय भाषाओं में लोकगीत एवं लोक-गाथाएँ : परंपरा एवं प्रयोग
 2. भारतीय भाषाओं में लोक-कथाएँ: परंपरा एवं प्रयोग
 3. भारतीय भाषाओं में लोक-नाट्य : परंपरा एवं प्रयोग
 4. भारतीय भाषाओं में लोक-साहित्य एवं लोक-संस्कृति:विमर्श
 5. भारतीय भाषाओं का सिनेमा और लोक-साहित्य
 6. पूर्वोत्तर भारत का लोक-साहित्य : विविध विधाएँ
- नोट: उपर्युक्त विषयों के अलावा भारतीय भाषाओं में लोक-साहित्य से संबंधित अन्य मुद्दों पर भी आलेखों का स्वागत है। ईमेल द्वारा संगोष्ठी-प्रपत्र सारांश दिनांक 08/03/2017 तक और पूर्ण आलेख (Full Paper) दिनांक 15/03/2017 तक स्वीकार किए जा सकेंगे। अध्यापकों के लिए पंजीकरण शुल्क 700 रुपये और शोधार्थियों के लिए 500 रुपये निर्धारित हैं। कृपया अपने आलेख milanrani08@tripurauniv.in एवं jaikaushal@tripurauniv.in पर ईमेल करें।

स्वागत उपसमिति-

- प्रो. दुर्गा घोष, वरिष्ठतम प्राध्यापक, त्रिपुरा विश्वविद्यालय
 प्रो. महेश कुमार सिंह, संकायाध्यक्ष, विज्ञान, त्रिपुरा विश्वविद्यालय
 प्रो. काशीनाथ जेना, परीक्षा-नियंत्रक, त्रिपुरा विश्वविद्यालय
 प्रो. अशेष गुप्ता, अंग्रेजी विभाग, त्रिपुरा विश्वविद्यालय
 प्रो. सुखेन्दु देबबर्मा, कॉकबरक विभाग, त्रिपुरा विश्वविद्यालय



हिन्दी विभाग
त्रिपुरा विश्वविद्यालय, सूर्यमणिनगर
द्वारा आयोजित

एवं
केन्द्रीय हिन्दी संस्थान, क्षेत्रीय केन्द्र, शिलाँग
तथा

नगर राजभाषा कार्यान्वयन समिति, ओएनजीसी, अगरतला
द्वारा प्रायोजित

द्वि-दिवसीय राष्ट्रीय संगोष्ठी

“भारतीय भाषाओं में लोक-साहित्य”

दिनांक : 17-18 मार्च, 2017

प्रमाण-पत्र

किया जाता है कि श्री / श्रीमती / डॉ. / प्रो. मिलन रानी जामातिया
य भाषाओं में लोक-साहित्य” विषय पर आयोजित द्वि-दिवसीय राष्ट्रीय संगोष्ठी में संयोजिका
की भूमिका निभाई एवं जामातिया लोक-साहित्य

ना शोध-पत्र प्रस्तुत किया । आयोजन-समिति इनके इस महत्वपूर्ण योगदान के लिए आभार प्रकट करती है

-संयोजक

(प्रो. राजदेव पोद्दार)

संगोष्ठी-अध्यक्ष

(प्रो. राजदेव पोद्दार)

संगोष्ठी-संरक्ष

(प्रो. राजदेव पोद्दार)



TRIPURA UNIVERSITY
Department of English

CALL FOR PAPERS

for

A 2-day Seminar of national and global significance:

THE SILENCE OF DYING VOICES:

Literatures on the verge of extinction in India's North-East and the world,

to be organized

Department of English, Tripura University

&

Sahitya Akademi.

on

4TH & 5TH July, 2016.

Venue: Department of English, Building 11, Block C, Tripura University Campus,
Suryamaninagar, Tripura West.

Proposing the Theme of the Seminar:

From time immemorial the power of the spoken word has been manifested in varied cultural practices right from spells, chants, mantras, magic incantations, ritualistic and shamanic utterances imbued with supernatural capacity, to the deceptively simple stories from the archives of shared social and ethnic memory that form the *raison d'être* of communities. This vast treasure trove that constitutes literature (preferably oral, termed *orature*) and enriches the knowledge corpus of such communities is however threatened to death and silencing due to the onslaught of forces that propel modernity and civilization. Memory as well as local literary and linguistic traditions acts as couriers for the transmission of cultural knowledge unique to such communities. But ironically, evolutionary 'progress' triggers 'regress' and extinction when the oral traditions encoded within these languages are threatened with the passing away of generations of 'speakers' and 'tellers', new religions replacing old ethnic belief systems, dislocations (often forced), livelihood changes and the eroding away of the old way of life yielding place to the new. The condition is even more frightening in the North East of India (henceforth referred to as NE) that has always been subjected to a certain structured 'gaze' of the rest of India and the world. In the NE as well as other similar socio-ethnic and cultural spaces of the world, narratives of such oral traditions are increasingly endangered as globalisation and rapid socio-economic change exert complex pressures on smaller communities,

often erasing expressive diversity and transforming culture through assimilation and appropriation to more dominant ways of life. The World Oral Literature Project at the University of Cambridge, 2009 states that among the world's living languages, currently numbering over 6,000, around half will cease to be spoken by the end of this century. Our NE is no better.

India's North-East is home to diverse ethnicities, traditions, languages, dialects, cultural practices and oratures which today stand on the brink of extinction amidst the onslaught of global threats. The proposed National Seminar aims at generating scholarly interest among committed scholars, researchers, students working in the region in close contact with communities with endangered literatures and working towards reviving lost or endangered literary traditions. This effort aims at both showcasing the work done in the area of dying literatures and providing a platform for film and documentary makers, media enthusiasts, social workers, performers, practitioners - in short all those who nurture active interest in this and have contributed to its existing corpus of knowledge in some way or the other. Hence, documentation and preservation of endangered oral traditions of India's North-East with the help of processes such as transcriptions, translations, reviving performances, documentary and film making and new media platforms, is one of the chief objectives of this proposed national seminar.

Details of Organization:

1. We encourage participants from the entire cross-section of academia, cutting across disciplines, who take a keen interest in the area.
2. Performers, story tellers, folk singers and such others are also encouraged to put in their life experiences and performances to be suitably documented.
3. Students and research scholars are encouraged to participate and share their views.
4. The number of outstation participants should be fairly representative of a cross section of the nation.
5. It is proposed that language should not be a barrier in this interdisciplinary national seminar. Papers are welcome in languages other than English too, such as Hindi or Bangla, but with a translational synopsis.
6. However, though the primary theme is literature of the North-East of India threatened to extinction (**henceforth the North-East region shall be referred to as NE**), papers are also welcome on such related sub-themes as follows:

SUB THEMES:

- i) **Dying literatures of NE, the rest of India and the world facing such extinction.**

- ii) **Representations of such literatures in visual and other Media etc.**
- iii) **Problems and prospects of translation.**
- iv) **Ethnicity, religion, vulnerability, violence and the threat to extinction.**
- v) **Language- literature co-relation in the extinction paradigm.**
- vi) **Policy making and state/ central initiatives in countering such threats as well as their efficacy/inefficacy.**

Besides, subthemes pertaining to such literary and cultural traditions threatened to extinction, in addition to the above may be considered for presentation, subject to their selection for presentation.

Prospective participants are requested to mail a 300-word Abstract with full name, designation and office address on any of the following sub-themes to the following Email ID:

hod_english@tripurauniv.in

All abstracts received shall be subject to scrutiny and review by a team of experts, and if selected, an intimation shall be sent to the sender, after which necessary registration formalities may be pursued. Apart from teachers and research scholars, **students pursuing postgraduate degrees are also welcome to participate in the seminar.**

IMPORTANT DATES:

Last date for E-mailing Abstracts: June 15th 2016

Last date for E-mailing full paper: June 30th 2016

All intimations to the selected participants shall be sent by the 20th of June 2016, after which the Registration formalities may be initiated.

Details of Registration Fees:

a) For Delegates: Rs.1500/-

b) Research Scholars: Rs.750/-

c) Student Participants: Rs.200/-

Prospective participants are also additionally informed that immediately after they are intimated on the selection of their Abstracts, the details of sending the Registration Fees shall also be mailed.

During the Seminar, accommodation for Outstation participants shall be arranged on a first come first served basis in the University Guest House, subject to the availability of rooms and a payment of a booking amount of Rs 500/- in addition to the Delegate Fee. The rest of the participants are requested to make their own arrangements for accommodation.

**Prof. Ashes Gupta
Head, Dept of English,
and**

Organizing Secretary for the Seminar.
Tripura University

ATREE
in collaboration with the
Department of Forestry and Biodiversity, Tripura University
are pleased to invite you to
the INAUGURAL FUNCTION of
Northeast India Biodiversity Portal (IBP): Training Workshop
at the Seminar Hall, Academic XI Building,
Tripura University

Date: July 8th, 2016
Time: 9:30 AM

RSVP: Regrets only
SMS 08974236218

Inaugural Session

9:30 AM	Arrival of guests
10:00 AM - 10:10 AM	Introduction and felicitation
10:10 AM - 10:15 AM	Lighting of ceremonial lamp by Chief Guest and other dignitaries
10:15 AM - 10:20 AM	Inaugural address
10:20 AM - 10:25 AM	Address by Convener- Dr Sarala Khaling
10:25 AM - 10:35 AM	Address by Guest of Honour of the inaugural ceremony
10:35 AM - 10:45 AM	Address by Chief Guest of the inaugural ceremony
10:45 AM - 10:50 AM	Vote of thanks
10:50 AM - 11:00 AM	Tea and Snacks

Technical Session

11:00 AM – 11:10 AM	Welcome, introductions and - objectives of the meeting	Dr. Sarala Khaling, Regional Director, ATREE Eastern Himalaya/Northeast India Office.
11:10 AM – 12:00 AM	Introduction to North East India Biodiversity Portal - main features and uses of biodiversity data	Rohit George, Coordinator NE India Biodiversity Portal
12:00 AM- 12:30 PM	Queries, Question and Answer Session	Rohit George, Coordinator NE India Biodiversity Portal
12:30 PM - 02:00 PM	Field Session	
02:00 - 02:30 PM	Lunch	
02:30 - 04:00 PM	Practice Session for up load of data collected and observations made	Rohit George, Coordinator NE India Biodiversity Portal
04:00 PM – 4:15 PM	Tea	
04:15 - 04:45 PM	Conclusions, vote of thanks and certificate distribution.	Dr. Sarala Khaling, Regional Director, ATREE Eastern Himalaya/Northeast India Office.



National Seminar on



ज्ञान-विज्ञान विमुक्तये

PERSPECTIVE OF PHYTORESOURCE AND ITS SUSTAINABLE UTILIZATION (PPSU)

March 9th- 10th, 2017

ABSTRACT



Organized by

**Department of Botany
UGC-SAP (DRS-I)
Tripura University
(A Central University)
Suryamaninagar-799022
Tripura, India**

For website advertisement



Workshop on “Modern Trends in Biological research” sponsored by Department of Biotechnology, Govt. of India.

Date : 27 -29th March, 2017

Time: 10 – 6.00 PM

Venue: State Biotech Hub; Tripura University. Suryamaninagar. Tripura 799 022

Total Seat: Fifteen (15)

Eligibility Criteria: Faculty from Colleges, Research scholars who are doing active research or working towards PhD degree.

Application fee: Nil

Travelling and Daily Allowance: TA/ DA will not be provided

Accommodation: You have to arrange for your own accommodation.

Fooding: Lunch will be provided during training

Last date to receive the application: 24th March, 2017

Tentative topics: Different molecular and cellular techniques (for example real timeqPCR, Immunohistochemistry etc) will be covered by lecture and Hands on training method.

Applications are invited from eligible candidates from different parts of North East states of India. The research minded persons who are highly motivated to do research in the life science, are encouraged to apply. Candidates are requested to provide proper proof of eligibility criteria. No accompanied person will be allowed. Some of the above topics will be explained theoretically and some will be executed practical basis or may be hands on training basis. **Completed application form with supported documents should be sent on or before 24th March, 2017 to Dr. Debasish Maiti, Coordinator, SBT Hub and Associate Professor, Dept of Human Physiology, Tripura University, Suryamaninagar, Tripura 799022.**

If you have any queries please email to debumaiti@gmail.com or  09612426272.



Application Form
(For Attending Workshop on “Modern Trends in Biological research” Organized by SBT Hub, Tripura University)

Name (in bold letters):

Father's Name:

Educational Qualification:

Current Employment:

Current Research Field:

Reason to join in the workshop:

Current Employer:

Complete Address of the Employer:

Address for communication with phone number and email ID:

Signature of the candidate

Information given in this form are true to the best of my knowledge and belief.

Signature of Supervisor for PhD students.
Seal of the Supervisor.

Signature with seal
Head of the Institute for College applicant



Certificate of Participation

Sunil Kalai

has successfully participated in a
FILM PRODUCTION WORKSHOP ON TRIBAL FOLKTALES OF TRIPURA
from 25th-28th February 2017.

Organised by

DEPARTMENT OF JOURNALISM & MASS COMMUNICATION
AND
DEPARTMENT OF RURAL MANAGEMENT
& DEVELOPMENT, TRIPURA UNIVERSITY

Sponsored By

TRIBAL RESEARCH
&
CULTURAL INSTITUTE, AGARTALA
GOVT. OF TRIPURA

Sunil Debbarma
Director, TRI
Govt. of Tripura

Sunil Kalai
Asst. Professor, JMC, TU
Project Director

Prof. Sukendu Debbarma
HOD, Kokborok, TU
Chairman

त्रिपुरा विश्वविद्यालय

TRIPURA UNIVERSITY

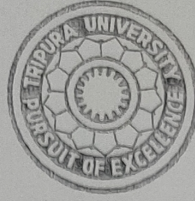
(त्रिपुरा विश्वविद्यालय)

(TRIPURA UNIVERSITY)

विश्वविद्यालय, अगरतला, त्रिपुरा, भारत

University, Agartala, Tripura, INDIA

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237 4804

e-mail : tuoffice@tripurauniv.in
website : www.tripurauniv.in

No.F. TU/ACDE/SSSL/141/2015.

Date: 20-04-2017.

To

Prof. Dr. Aranab Chattarjee

Eminent Artist

Gohil Apartment

85 Vivekananda Sarani,

P.O. Hatt, Pin: 700078

Kolkata.

Sub: Resource person for vocal Music Workshop.

Sir,

The Hon'ble Vice-Chancellor, Tripura University has been pleased to approve the proposal of the Head, Deptt. of Music, Tripura University to hold a Workshop on vocal Music from 24/04/2017 to 30/04/2017, in the Dept. of Music, Tripura University.

You are requested to remain present in the workshop as one of the resource persons for seven days (24th April to 30th April, 2017).

Yours faithfully,

(S.P. Chhetry)
Dy. Registrar (I/C)

Copy to:

1. The Dean, Faculty of Arts & Commerce, T.U.
2. The Registrar, Tripura University for kind information.
3. The Finance Officer, Tripura University for kind information.
4. The Head, Deptt. of Music, T.U.
5. P.S to V.C. for kind information of the Vice Chancellor.







Workshop on

"The Concept of Gharana in Kathak Dance"

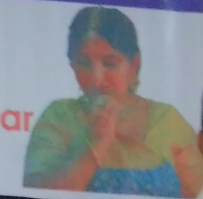
from 13/2/2017 to 19/2/2017

Organized by the Department of Music

Tripura University

Resource Person

Dr. Chetana Jyotishi Beohar





Department of Music, Tripura University

Organizes

**A Special Training Camp on
Mamri, Dadra, Kajri, Chaiti etc.**

From 30/05/2017 to 31/05/2017

By

Pt. Vidyadhar Pr... *Kshra*
of Banaras Ghar



**A Special Training Camp on
Thumri, Dadra, Kajri, Chaiti etc.**

From 30/05/2017 to 31/05/2017

By

Dr. V. Naras Ghosh
Naras Ghosh





SCIENCE ACADEMIES' EDUCATION PROGRAMME

IASc/SEP/LW/March/2018

02 February 2018

JOINT SCIENCE EDUCATION PANEL

Indian Academy of Sciences

Murthy, M.R.N.

(Chairman)

Kanhare, D.G.

(Co-Chairman)

Arunan, E.

Bachhawat, A. K.

Balakrishnan, V.

Chattopadhyay, Nitin

Dhar, Deepak

Mukunda, N.

Radhakrishnan, T. P.

Rangarajan, Govindan

Saidapur, S.K.

Sankaran, P.

Satheesh, S.K.

Sebastian, K. L.

Sengupta, Pulak

Subramaniam,

Annapurni

Indian National Science Academy

Chattaraj, P. K.

Chaudhuri, Probal

Ghosh, Amit

Goswami, J.N.

The National Academy of Sciences, India

Dimri, V.P.

Khurana, Paramjit

Misra, Gadadhar

Mittal, J.P.

Contact Address

Ravikumar, C.S.

Coordinator

Science Education
Programme

Indian Academy of
Sciences

P.B. No. 8005

C.V. Raman Avenue

Sadashivanagar P.O.

Bengaluru 560 080
India

Telephone:

91-80-2266 1210

91-80-2266 1207

Fax:

91-80-2361 6094

Email:

sep@ias.ac.in

Dr Sayed Arshad Hussain
Dept. of Physics
Tripura University
Suryamani Nagar 799 022
Agartala

Sub: Lecture Workshop on "Thin films and nanomaterials: principles and applications"
at Tripura University, Suryamani Nagar during 26-28 March 2018.

Dear Dr Hussain,

This has reference to the letter forwarding a proposal and budget for organizing a three-day Lecture Workshop at Tripura University Suryamani Nagar. The Joint Science Education Panel of the three Academies will be happy to sponsor and support the Lecture Workshop. We note that Prof. E.S. Raja Gopal (IISc, Bengaluru) will be the Convener and you will be the Coordinator.

(a) Your budget of Rs.2,05,000 (+ I I A/C Train fare of Resource Persons and flight charge of the Convener) for 150 participants has been approved by the Science Education Panel. As per the guidelines, the ideal number of participants in a Lecture Workshop should be between 100 and 125 and in any case should not exceed 150, to maximize interaction between participants and resource persons. Please note that you have to adhere to our guidelines and the approved amount is strictly following the budget heads in the guideline.

(b) Please note that only the names of Convener and Coordinator of the Workshop should be included in brochure/invitation etc. Names of members of the management, organizing committees, patrons etc should strictly be not printed.

(c) Please ensure that the expenditure on individual items does not exceed the sanctioned BUDGET HEAD. If the actual expenditure exceeds the sanctioned budget, THE HOST INSTITUTION MUST TAKE CARE OF THE DIFFERENCE.

(d) Lecture Workshops are sponsored and supported by the three National Science Academies – IASc, INSA and NASI. The names of INDIAN ACADEMY OF SCIENCES (BENGALURU), INDIAN NATIONAL SCIENCE ACADEMY (NEW DELHI) and THE NATIONAL ACADEMY OF SCIENCES, INDIA (ALLAHABAD) along with logos should therefore be mentioned in all publicity material such as programme sheet, invitation cards, etc.

(e) It may be noted that no formal certificates should be issued to participants. A letter of attendance signed by Coordinator may be issued to those who insist on it.

(f) The Workshop should be called Science Academies' Lecture Workshop on "Thin films and nanomaterials: principles and applications".



Indian Academy
of Sciences,
Bengaluru



Indian National
Science Academy,
New Delhi



The National Academy
of Sciences, India
Allahabad

(g) You should send us three copies of the printed programme cards once it is printed.

(h) We can transfer the amount through electronic transfer on receiving a specific request from you.

We urge you to open a new bank account in the name of the lecture workshop or in the name of the principal and provide full details of the account:

1. Account No;
2. Name of the Account Holder;
3. Name of the Bank;
4. Name of the Branch;
5. IFS code for non-SBI accounts.

Alternatively you can provide us the existing college bank account number to which we can transfer the amount.

(i) The audited expenditure statement/utilization certificate duly signed by competent authority (CA or Financial Controller) should be sent along with the report, once the Course is over. This is required for the audit compliance.

You can go ahead with organizing the Workshop in consultation with Prof. E.S. Raja Gopal and keep us informed about the progress.

With regards,

Yours sincerely,



C.S. Ravi Kumar
Coordinator
Science Education programme



SWAYAM TRIPURAUNIVERSITY <swayam.tu@gmail.com>

Report on SWAYAM one day program held on 1st June 2018 as well as relevant materials

1 message

SWAYAM TRIPURAUNIVERSITY <swayam.tu@gmail.com>

2 June 2018 at 23:42

To: amiyakumarpan@gmail.com, ersmitsdas@gmail.com, er.sub83@gmail.com, gdckamalpur@gmail.com, db.abhi@gmail.com, sarkarshyamashree@gmail.com, rwmunmunb@gmail.com, dasgupta.sanhita04@gmail.com, pankajhcc2009@gmail.com, bristidb@gmail.com, principalknms@gmail.com, sushmitadas_cse@yahoo.in, rtmbishalgarh@gmail.com, ranjit_tb@yahoo.co.in, ramthakur.college@rediffmail.com, seuli.bmk@gmail.com, nirmalendu.acharya@gmail.com, mathabhijit@gmail.com, puspa.mbb@gmail.com, mbbc.agt2015@gmail.com, bbmcagartala@gmail.com, dhdce@gmail.com, ctekumarghat15@gmail.com, triptiwat@gmail.com, siddharthaassttprof84@gmail.com, tripuracollegeofnursing123@gmail.com, cinuii3@gmail.com, swayam.tit@gmail.com, manjuron@gmail.com, shimalcstit@gmail.com, alakroy@tripurauniv.in, shouvik@tripurauniv.in, debumaiti@gmail.com, sudiptapal@tripurauniv.in, mahasweta_saha@tripurauniv.in, gcssarkar@gmail.com
Cc: vc@tripurauniv.in, provc@tripurauniv.in, directorcdc@tripurauniv.in, srsystemanalyst@tripurauniv.in, fo@tripurauniv.in

Respected Sir/Madam

In the absence of our honorable Vice Chancellor sir, based on whose vision we had planned the programme, our honorable Pro-Vice Chancellor Sir had graced the occasion. We were very privileged to have him throughout the program.

Thank you all for attending the "**One day orientation program and awareness workshop for SWAYAM**" on the 1st of June 2018 at Tripura University.

I am very happy to report that we had 25 representatives from different affiliated colleges and had representatives from all districts of Tripura. This would not have happened had it not been widely circulated by our director College development council as well as govt of Tripura.

We were very thankful to you all for attending the program and participating in the discussion. Hope you can encourage your students to enhance their knowledge via taking up course via SWAYAM and NPTEL .

Hope to expand the base of the local chapters of Tripura University for SWAYAM as well as our state of Tripura in future. Kindly find the presentation slides of the undersigned as well as the external expert from IIT Kharagpur NPTEL local chapter. I have also attached important documents regarding SWAYAM for your reference.

A big thank you all for aiding us in the endeavor, which would not have been possible without all of you as well as our SPOC, NPTEL and my department faculty members who helped me out along with the officers and staff of administration.

Affiliated colleges that have attended are:

1. Dasharath Deb Memorial College
2. Government Degree College, Kamalpur
3. Government Degree College, Kanchanpur
4. Government Degree College, Khumulwng
5. Government Degree College, Santirbazar
6. Government Degree College, Teliamura
7. Holy Cross College, Durjaynagar
8. Iswar Chandra Vidyasagar College, Belonia
9. Kabi Nazrul Mahavidyalaya, Sonamura
10. Michael Madhusudan Datta College, Sabroom
11. Rabindranath Thakur Mahavidyalaya, Bishalgarh
12. Ramkrishna Mahavidyalaya, Kailashahar
13. Ramthakur College, Badharghat
14. Swami Vivekananda Mahavidyalaya, Mohanpur
15. Tripura Tribal Folk Music College, Khumulwng
16. Women's College, Agartala
17. MBB COLLEGE, Agartala
18. BBM COLLEGE, Agartala
19. College of Teacher Education, Kumarghat
20. Sachin Deb-Barman Memorial Govt. Music College
21. Tripura College of Nursing, Hapania, West Tripura
22. Tripura Institute of Paramedical Science, Hapania
23. Tripura Institute of Technology, B.Tech (UG section), & (Diploma section), Narsingarh (**2 persons**)

24. TTAADC Polytechnic, Khumulwng
25. Women's Polytechnic, Hapania

Thank you all.

with warm regards from

Swanirbhar Majumder/ স্বনির্ভর মজুমদার
SPOC SWAYAM

Head of the Department / বিভাগাধ্যক্ষ

Information Technology / সূচন প্রৌদ্যোগিকী

Tripura University/ ত্রিপুরা বিশ্ববিদ্যালয়

Suryamaninagar, Tripura-799022 / সূর্যমাননগর, ত্রিপুরা-799022


0381-237-9372 (O)/ Ph: +91-9436229406

swanirbhar majumder@tripurauniv.in

swayam.tu@gmail.com

11 attachments

 **Request Letter for Establishing Local Chapter.docx**
13K

 **mooc_latest.pdf**
460K

 **NRC press release.pdf**
222K

 **Presentation - MOOCs.pdf**
7469K

 **What is SWAYAM.pdf**
1179K

 **Swayamprabha.pdf**
2764K

 **Course Creation Steps.pdf**
1134K

 **Guidelines_for_MOOCs.pdf**
273K

 **16_07_20_UGC_gazette.pdf**
127K

 **16_08_22_AICTE_gazette.pdf**
308K

 **17_06_01_Guidelines to Develop MOOCs.pdf**
460K



Department of Information Technology

TRIPURA UNIVERSITY (A Central University)
Suryamaninagar, Tripura West, India - 799022

Phone: +91 381 237 9372

Fax: +91 381 237 4802

Email: swanirbhar:majumder@tripurauniv.in

Web: www.tripurauniv.in

Dr. Swanirbhar Majumder
SPOC, SWAYAM
Associate Professor
Dept. of Information Technology
Tripura University,
Suryamaninagar, Tripura

Dated: 30/05/2018

To
The Head/Coordinator,
Department of _____
Tripura University,
Suryamaninagar, Tripura

Subject: - Invitation for One day Orientation Workshop for SWAYAM for affiliated colleges of Tripura University

Sir/Madam,

It is of immense pleasure to inform you that Tripura University is going to organize a **“One day Orientation Workshop for SWAYAM”** for its affiliated colleges on 1st June’18 (Friday) at the Seminar Hall I of Academic Building XI of the University.

It shall be highly appreciated if you kindly grace the occasion by your kind presence or nominate a faculty member from your department represent you for being the SPOC (Single point of Contact) for all SWAYAM related activities of the department and also work out later as brand ambassadors of SWAYAM local chapter of Tripura.

Kindly Coordinate with the Digital Learning Monitoring Cell (DLMC) for SWAYAM.

Thanking You.

Yours Sincerely.

(Swanirbhar Majumder)



Tripura University
(A Central University)

UGC MOOCs
A VERTICAL OF SWAYAM

One Day Orientation Program and Awareness Workshop for



1st June 2018, 11 AM, Seminar Hall, Academic Building IX



PROGRAM SCHEDULE OF ONE DAY ORIENTATION PROGRAM AND AWARENESS WORKSHOP FOR SWAYAM

DATE: 1st June' 2018 (Friday)
TIME: 11AM
PLACE: Seminar Hall I of Academic Building IX, TU

Chief Patron: Vice Chancellor, TU
Patron: Pro. Vice Chancellor, TU
Chairman: Mr. S. Debbarma

11 :00 AM Welcome Address by SPOC SWAYAM
11:10 AM Addressing by Pro VC,
Chairman Digital Learning and Monitoring
Cell of SWAYAM, TU
11:20 AM Address by SPOC NPTEL
11: 30 AM What is SWAYAM by – SPOC SWAYAM
12:30 PM SWAYAMPRAKHA by- SPOC SWAYAM
13:30 PM Working Lunch
14:00 PM About MOOCs under NPTEL-
Mr. S. S. Das, IIT Khargpur
16:00 PM Vote of Thanks
16:10 PM Tea & Snacks

Convener: Dr. S. Majumder
SPOC, SWYAM, TU

Organizing Committee:
Mr. A. Roy, Dept of IT
Mr. J. Pal, Dept of IT
Mr. S. Nandi, Dept of IT
Mr. S. Saha, Dept of IT
Mrs. T. Sarkar, Dept of IT
Mr. B. Biswas, Dept of IT

FINANCE BRANCH

PROJECT SECTION

DBT-VRP Project

(Prof. Debawish Bhattacharyya)

No. TU/Fin (328) (Project)/ 2017-18

Dated, the 13th April, 2018.

Subject : Organising 10 days workshop from 26th April, 2018 to 5th May, 2018. .

Prof. Debasish Bhattacharyya, Visiting Research Professor, DBT-VRP Project, Department of Zoology, T.U. has informed that he would like to organise a workshop for 10 days from 26th April, 2018 to 5th May, 2018 on the topic " Purification, Assay and Kinetics of Enzymes.

He has also stated that the expenditure of this workshop will be managed from the Contingency head of the Project. The University will have no financial liabilities in this workshop .

In the project, Rs. 1.00 lakh is provided by the funding agency for the Contingency head and out of which upto-date expenditure is Rs. 28,949/- remaining balance about 71,051/-.

If approved, we may allowed Prof. Bhattacharyya to organise workshop within the available fund.

OSY (P)

13/4/2018

(X) We may allowed Prof. Bhattacharyya to organise workshop within the available fund.

Ref.

As proposed

13/4/18

13/4/18

for his approval.

Under VC

(X) Approved

16/4/18

15.4.18

As approved.

18.4.18

Project Section

Workshop on
 "Purification, Assay and Kinetics of Enzymes"
 Department of Zoology, Tripura University
 26th April to 5th May 2018

REGISTRATION SHEET (26.04.2018)

Sl. NO.	NAME OF PARTICIPANTS	DEPARTMENT	SIGNATURE
1.	DR. DEBASISH MAITI	Human Physiology	Debasish: 26/4/18
2.	DR. SUDIPTA PAL	Human Physiology	SP
3.	DR. KUNTAL MANNA	Pharmacy	KM 26/04/18
4.	DR. SHIV SHANKAR SINGH	Zoology	SS 26/4/18
5.	DR. SAMIK ACHARJEE	Zoology	SA
6.	MR. DIPAK DAS	Zoology	Dipak Das
7.	MR. BALARAM SUTRADHAR	A	A
8.	MS. ANINDITA DEB	ZOOLOGY	AN
9.	MR. RAHUL DEBNATH	Human Physiology	Rahul Debnath
10.	MS. SANGITA SUTRADHAR	Zoology	Sangita
11.	MR. PRIYATOSH NATH	Human Physiology	Priyatosh Nath
12.	MR. DEEPIYOTI SAMADRITA BHATTACHARJEE	Molecular Biology and Bioinformatics	Samadrita Bhattacharjee
13.	MS. SAMADRITA DEEPIYOTI BHATTACHARJEE	Human Physiology	Deepiyoti Bhattacharjee
14.	MR. RUPAN NAMA	Molecular Biology & Bioinformatics	Rupan Nama
15.	MR. SUBHAM SHUBAM CHAKRABORTY	Human Physiology	Shubam Chakraborty
16.	MS. SUSMITA GHOSH	Molecular Biology & Bioinformatics	Susmita Ghosh
17.	MS. SUSREETA BISWAS	Molecular Biology and Bioinformatics	Susreeta Biswas
18.	MS. NIKITA BANIK	Molecular Biology and Bioinformatics	Nikita Banik

For website advertisement



Workshop on “Techniques for Genomic Research” sponsored by Department of Biotechnology, Govt. of India.

Date : 19 -23rd March, 2018

Time: 10 – 6.00 PM

Venue: State Biotech Hub; Tripura University. Suryamaninagar. Tripura 799 022

Total Seat: Fifteen (15)

Eligibility Criteria: Faculty from universities, Colleges, Research scholars who are doing active research or working towards PhD degree.

Application fee: Nil

Travelling and Daily Allowance: TA/ DA will not be provided

Accommodation: Self arrangement of accommodation.

Fooding: Working lunch will be provided during training

Last date to receive the application: 15th March, 2018

Tentative topics: Plasmid DNA isolation from bacteria, Purity analysis, concentration determination and agarose gel electrophoresis of DNA, Restriction digestion of DNA, RNA isolation, cDNA preparation, PCR, gene expression by real time PCR (qPCR), Microbial Biofilm development characterization, Live/Dead cell analysis in microbial population, Statistical analysis of results

Applications are invited from eligible candidates from different parts of North East states of India. The research minded persons who are highly motivated to do research in the life science, will be highly benefitted. Candidates are requested to provide proper proof of eligibility criteria. No accompanied person will be allowed. **Completed application form with supported documents should be sent on or before 15th March, 2018 to Dr. Debasish Maiti, Coordinator, SBT Hub and Associate Professor, Dept. of Human Physiology, Tripura University, Suryamaninagar, Tripura 799022.**

If you have any queries please email to debumaiti@gmail.com or  09612426272.



Application Form
(For Attending Workshop on “Techniques for Genomic Research”
19-23rd March 2018, Organized by SBT Hub, Tripura University)

Name (in bold letters):

Father's Name:

Educational Qualification:

Position holding:

Current Research Field:

Reason to join in the workshop:

Current Employer:

Complete Address of the Employer:

Address for communication with phone number and email ID:

Signature of the candidate

Information given in this form are true to the best of my knowledge and belief.

Signature of Supervisor for PhD students.
Seal of the Supervisor.

Signature with seal
Head of the Institute for College applicant



Session

**Schedule of the Inauguration Program,
Capacity Building training, 14.05.2018**

Time	Program
10.30 AM	Brief Introduction and Invitation of the guests to the dais
10.35 AM	Felicitations of the guests
10.45 AM	Lighting of Lamp
10.50 AM	Welcome speech by Coordinator
11.00 AM	Short speech by RRRLF representatives
11.15 AM	Speech by Registrar, Tripura University
11.20 AM	Speech by Vice Chancellor, Tripura University
11.30 AM	Vote of thanks by Joint Coordinator
11.30 – 12.00 PM	High Tea

Date: 10-05-2018

To
The HOD's/Co-ordinator's/Faculties
Tripura University
Suryamaninagar

Invitation to Grace the Occasion, Req.

Sir,

The Department of Library and Information Science and Central Library, Tripura University are organizing 5 days workshop on "**Capacity Building Programme of National Mission on Libraries for Public Library Personnel**" in collaboration with RRRLF May 14-18, 2018. The participants from all the north east states are attending the workshop. The inaugural ceremony is scheduled to be held on May 14, 2018 at 11:00AM inside the Seminar Hall 02, Academic Building 11, Tripura University.

Prof. Anjan Kumar Ghosh, Hon'ble Vice-Chancellor, Tripura University shall grace that occasion as Chief Guest.

We solicit your kind presence to grace the occasion.

Dr. R. K. Mahapatra

Head, Dept of Library and Information Science,
& Co-ordinator of Workshop



Advanced Workshop on
Microbial Technology for an Environment
(18th - 21st)

Department of Biotechnology
(University of Kerala)



A 2 Day National Conference

on

The English Text in a North East Classroom: Pedagogy, Politics and Sociology of English Literature Teaching

Nov 2-3, 2017

Sponsored by

Ministry of DONER,
Govt. of India

Organised by

Dept. of English,
Tripura University
(A Central University)

At

Dept. of English, Academic Building XI,
Tripura University, Suryamaninagar
Tripura-799022

COMPLETION REPORT

Introduction

The Department of English, Tripura University had decided to organize a 2 –day National Conference on “The English Text in a North East Classroom: Pedagogy, Politics and Sociology of English Literature Teaching” during November 2-3 2017, for which proposal was sent to several funding agencies. The Ministry of DONER, Govt. of India was kind enough to accept the Conference proposal and be the sponsor of the event. Accordingly with due approval from the Hon’ble Vice-Chancellor of Tripura University, an Organising Committee was constituted from the Faculty members of the Department of English to smoothly conduct the event. The Conference was to be organized around Plenary Sessions and Paper Presentations. A Call for Paper was notified in the University website and sent to several Universities and Colleges of the North East. Abstracts from not just the region, but from different parts of India were received, and after a careful scrutiny of quality proposals Acceptance letters were sent to the prospective participants. The Conference promised to be an enthralling one, as scholars not just from Literature background, but from Language Studies and ELT as well evinced keen interest in participation.

Concept Note

India’s North East is the language historian’s minefield, not only by virtue of its multi-ethnic and hence multilingual polyphony, but also its hospitality to English, the colonial master’s left over share of cake, which when distributed, soaked up a variety of distinctive flavors of the region. Under the watchful eyes of William Carey and the Serampore missionary project, English gradually became the second language of the household and the first language of school education in many parts of India’s North East, ranging from Assam, Arunachal, Meghalaya, Mizoram, Nagaland, Manipur and certain regions of Tripura. The North Eastern region in the erstwhile Empire era was known as the North Eastern Frontier Agency (NEFA) with its capital at Shillong. Shillong, the Scotland of the East, naturally imbibed the fruits of Anglicisation to the hilt, leaving the rest of the region at the mercy of local kingships, politics and ethnicity. With Independence, the region was subsequently divided into eight federal states, but each state had its own unique socio-cultural and political exigencies to attend to. The missionary influence had been a powerful proselytising force since early nineteenth century on many a tribes, gradually anglicising and alienating them from their indigenous traditions. In such states, English had been made the state language, while in others, it became the second language. Notwithstanding local politics, English language and literature over ages acquired an enviable position in the region as a tool of social mobility and marker of social status.

But in spite of decades of the language learning and training, the state of English education in the region, leaving apart a few select cities, is not at all a happy one. Lack of good study materials and properly trained teachers, fear of the Text and the language, cultural distancing between the two contexts, exam-centric Teaching and Learning, lack of research to investigate classroom apathy and encourage Textual Teaching etc. are some of the several factors inhibiting Teaching of English Literature in most of the Northeastern states. A student in an Indian University is traditionally encouraged to approach English literature from an Anglocentric, universalist perspective and not in relation to his/her own socio-cultural context, consequently alienating the student from his/her immediate cultural context, while putting high stakes on imitation and imbibing Westernised cultural values. A good majority of students in an English class in the North East hesitate to take part in teacher-student interactions; coming from a rural agrarian background, they feel intimidated and often suffer from an inferiority complex vis a vis their urbanized counterparts. Not surprisingly, often English teachers themselves are to be blamed for drilling this sense of inferiority in those rural students. Though it has been observed that with a gradual loosening of Anglophonic rigour inside the classroom, such small town students tend to be at ease and develop confidence over time.

With seven decades into postcoloniality, it is time we asked ourselves, as English teachers in the North East, what should be our role? How should we teach English texts in the class rooms? Do we want our children to be Westernised educated apes and cultural “others”? Should we neglect some students just because they lack an anglicized sophistication? Or should we teach them to interpret their own literary and cultural traditions in the light of the western ratiocinative texts and thought?

This Conference was an initiative to address these questions and related issues in the field of Teaching of the English Literary Text in an urban/suburban Classroom in the North East and try to theorize the different approaches to *Textuality*, and evolve a student-centric teaching methodology for facilitating creative and meaningful reception of the English Text.

Broad Themes

Possible themes on which submissions are sought, but are not limited to,include:

- Crisis in the Class Room
- Pedagogy and the Curriculum
- Politics of the Canonical Text
- Sociology of English Literature Teaching
- Teaching the Translated Texts
- Ethnicity, Identity and the English Text
- Partition and the English Text
- Morality and English Literature
- Missionary impact and the Study of English Literature

Attachments:

1. Program Schedule
2. List of Resource Persons
3. List of Participants
4. Organising Committee
5. Photographs

File No: AandP-11/313/2017-O/o US (A and P)
Government of India
Ministry of Development of North Eastern Region

Vigyan Bhawan Annexe,
Maulana Azad Road,
New Delhi-110011,
Dated:11.07.2017

To
Dr. Somdev Banik,
Assistant Professor of English,
Department of English,
Tripura University,
Suryamaninagar, Agartala-799022.

Subject:- Financial assistance to Department of English, Tripura University for organizing National conference on The English text in a Northeast classroom pedagogy, Politics and Sociology of English literacy teaching during 7th -8th September, 2017 at Tripura University .

Sir,

I am directed to refer to your email dated 20.03.2017 addressed to the Secretary, DoNER on the subject mentioned above.


2. The proposal of the Indian Institute of Technology, Guwahati was considered by the Screening Committee on Advocacy and Publicity scheme and recommended for sanction of **Rs. 2,10,000/- (Rupees Two Lakh Ten Thousand only)** for the event from Grants-in-aid general head of the scheme.

3. Accordingly, it is requested to furnish followings for consideration of release of fund under the Grants-in-aid head of the Advocacy & Publicity Scheme:-

- a) Proposal in proper format along with requisite documents of the Scheme;
- b) Pre-stamped receipt for **Rs. 1,57,500/- (Rupees One Lakh Fifty Seven Thousand Five Hundred Only)** (as per existing rule of the scheme only 75% of the sanctioned amount is to released before the event);
- c) ECS Mandate and Central Plan Scheme Monitoring System (CPSMS) form / Beneficiary Detail; and
- d) An undertaking that Department of English, Tripura University will comply all the conditions stipulated in the sanction order.

Yours faithfully,


(Malti Rawat)


12/7/2017
RECEIVED

PROGRAM SCHEDULE

	Time	Program	Speaker/s
Day 1 Nov. 2nd 2017	9.30-10.00 AM	Registration for non-Presenter Participants/Distribution of Folders Bags	
	10.00-11.00 AM	Inauguration	Prof. Anjan Mukherjee-Chief Guest Prof. S.Podddar-Special Guest S.K.Chaudhuri-Guest of Honour Prof. Shyamal Das-Chairperson
		Book Launch by Niharika Publishers	
	11.00-11.30 AM	Plenary Speech 1	Sri Saroj Chaudhuri Ex-Reader, M.B.B.College, Agartala
	11.30-12.30 PM	Technical Session 1 Chair: Saroj K. Chaudhuri Retd. Reader in English, M.B.B.College, Agartala.	Dr. Saugato Nath Sukla Singha N.Pravenchandra Singh Santanu Niyogi
	12.30-1.20 PM	Plenary Speech 2	Uma Krishnaswamy, Faculty, NIFT, Chennai
	1.20-2.00PM	Plenary Speech 3	Prof Ashes Gupta Dept. of English, TU
	2.00-3.00 PM	Lunch	
	3.00-4.00 PM	Plenary Speech 4	Dr. Banibrata Mahanta, Dept of English, BHU
	4.00-5.15 PM	Technical Session 2 Chair:Dr. Hari Prasad Athanickal Associate Prof, EFLU, Hyderabad	Soffy Nongmeikapam Tanya Brooks Jhuma Majumdar Debashish Roy
Day 2 Nov. 3rd 2017	10.00-11.00 AM	Plenary Speech 5	Prof. T.K.Kharbamon, Dept of ELT, EFLU, Shillong
	11.00-12.30 PM	Technical Session 3 Chair: Dr. Debasish Mahapatra, Dept. of English & Culture Studies, Tezpur University	M.Debnath/ N.Bhattacharjee Sandipa Dey/Nayantara Begum Alok Chakraborty Dr. Hari prasad Athanickal
	12.30-1.30 PM	Technical Session 4 Chair: Dr. Ksh Premchandra Singh Dept. of English, Tripura University	Amar Debnath Batoul Khoja Sushanta Bhowmik
	1.30-2.30 PM	Lunch	
	2.30-3.30 PM	Plenary Speech 6	Dr. Debasish Mohapatra, Dept of English & Culture Studies, Tezpur University
	3.30-4.30 PM	Technical Session 5 Chair: Dr. Banibrata Mahanta, Dept. of English, BHU.	Debasish Acharjee Annie Moiranthem Agnibesh Chakraborty/Anikpati Roy
	4.30-5.30 PM	Chairperson's Note	Towards New Pedagogies: Prof. Shyamal Das, Dept of English
	5.30-6.30 PM	Valedictory Session	Sri Tarun Mukherjee-Guest of Honor Prof. T.K.Bamon- Chief Guest Prof. Shyamal Das-Chairperson

LIST OF PLENARY SPEAKERS

SL	Name	Title of the Paper
1	PROF. T.K KHARBAMON Dept of ELT, EFLU, Shillong tkkharbamon@eflushc.ac.in	THE ENGLISH TEXT :BRIDGING THE DISCONNECT BETWEEN THEORY AND PRACTICE
2	UMA KRISHNASWAMI Faculty, NIFT, Chennai uma_ky@yahoo.com	THE IMPORTANCE OF PICTURE MAKING IN THE TEACHING OF ENGLISH TEXTS: KEEPING TRIPURA AND HER FOLK IN MIND
3	Dr BANIBRATA MAHANTA, Dept of English, BHU bmahantaa@gmail.com	ENGLISH STUDIES IN INDIA: REVIEWING BORDERS, REMAPPING THE TERRAIN
4	SRI SAROJ K. CHAUDHURI Retd. Reader in English, M.B.B.College, Agartala.	UNDERSTANDING THE LEARNER'S PSYCHE: PERSPECTIVES IN ENGLISH LITERATURE TEACHING
5	Dr. DEBASISH MOHAPATRA, Dept of English & Culture Studies, Tezpur University deva@tezu.ernet.in	MANAGING CLASSROOM DYNAMICS: A CHANGING PERSPECTIVE
6	PROF. SHYAMAL DAS, Dept of English, Tripura University shyamaldas@tripurauniv.in	TOWARDS NEW PEDAGOGIES
7	PROF ASHES GUPTA, Dept of English, Tripura University ashesgupta69@gmail.com	TEACHING THEATRE: AN EVOLVING PEDAGOGICAL MODEL

LIST OF PARTICIPANTS

Sl. No	Name	Title of the Paper
1	Dr. SAUGATA KUMAR NATH <i>Faculty, Department of English, Assam University,,Silchar saugatakn@yahoo.co.in&saugatakn@gmail.com</i>	TEACHING DRAMA TEXTS IN CLASSROOMS IN THE NORTH EAST INDIA: A STUDY
2	ALAK CHAKRABORTY Lecturer, Department of English Govt. City College, Chittagong, Bangladesh <i>csalakbd@gmail.com</i>	MANAGING A LARGE CLASSROOM AND PROVIDING VOCAL CARE FOR TEACHERS
3	ANNIE MOIRANGTHEM PGT (English), The Eden Public School <i>anniemoirangthem03@gmail.com</i>	ENGLISH LANGUAGE TEACHING IN THE RURAL AREAS OF IMPHAL
4	BATOUL KHOJA Department of English and Foreign Languages, Tezpur University <i>batulkhojasy@gmail.com</i>	EXPLORING SYRIAN STUDENTS' ACADEMIC WRITING SKILLS THROUGH ANALYSIS OF WRITING SAMPLES
5	BRAJENDRA K. SINHA AND DEBASHIS ROY Janthum English Medium High School <i>brajendras2@gmail.com</i>	A PEEP INSIDE THE ENGLISH-TEACHING CLASSROOM
6	DEBASISH ACHARJEE Ex-Faculty, ICFAI University Tripura <i>dacharjee95@gmail.com</i>	TEACHING SOFT SKILLS IN ENGLISH LITERATURE CLASSROOM: <i>THEORETICAL</i> AND <i>PHYSICAL</i> POSSIBILITIES
7	DR HARIPRASAD ATHANICKAL Department of Film Studies The English and Foreign Languages University hariprasadathanickal@efluniversity.ac.in	MOVING BEYOND THE TEXTUAL: TEACHING FILM STUDIES IN AN ENGLISH DEPARTMENT
8	JHUMA MAJUMDER Assistant Professor, Department of English, Maharaja BirBikram University <i>jhumamajumder756@gmail.com</i>	PEDAGOGY AND CURRICULUM IN A NORTH-EAST CLASSROOM: A STUDY
9	MOUMITA DEBNATH AND NILANJANA BHATTACHARJEE <i>debnathmoumita047@gmail.com b.nilanjana93@gmail.com</i>	TEACHING ENGLISH (LANGUAGE AND LITERATURE) TO VERNACULAR MEDIUM STUDENTS IN TRIPURA: A CASE STUDY
10	NONGMAITHEM PRAVENCHANDRA SINGH Department of English, Department of English, Manipur University <i>remoravenshaw@gmail.com</i>	LOOKING THROUGH THE LENS OF HARUKI MURAKAMI: POPULAR CULTURE IN THE NORTH EASTERN STATES OF INDIA
11	SANDIPA DEY AND NAYANTARA BEGAM Triupura University <i>sandipadey1993@gmail.comnayanantara.begam@rediffmail.com</i>	A PROFILE OF THE PEDAGOGY OF PHONETICS IN UG CLASSES IN TRIPURA
12	SANTANU NIYOGI	ENGLISH IN THE CONTEXT OF

	Department of English Raniganj Girls' College <i>santanuniyogi@yahoo.com</i>	LINGUISTIC PLURALITY IN THE NORTH EAST
13	SOFFY NONGMEIKAPAM PGT English, The Eden Public School Imphal M.A. English, B.Ed. <i>soffynong90@gmail.com</i>	THE NEED FOR NORTH-EASTERN CENTRIC STUDIES IN THE ENGLISH CLASSROOM
14	PREETI SHUKLA Associate Professor Department of English Shyamlal College Evening University of Delhi <i>preetishukla28@yahoo.co.in</i>	PARTICIPANT
15	TANYA MARINA BROOKS Department of EFL, Tezpur University <i>brookstanyamarina@gmail.com</i>	THE DICHOTOMY OF CRISIS IN AN ENGLISH CLASSROOM
16	AMAR DEBNATH <i>Lecturer in English, Women's Polytechnic, Amtali, Tripura(W)</i> <i>newamar2010@rediffmail.com</i>	FABLE AND FOLKTALE AS ENGLISH TEXTS IN A SECONDARY LEVEL CLASSROOM : A REVIEW OF STRATEGY IN TRIPURA
17	SUKLA SINGHA Research Scholar, Dept of English, Tripura University	A TEXT IN ENGLISH FROM NORTH-EAST INDIA IN A NORTH- EAST INDIAN CLASSROOM
18	AGNIBESH CHAKRABARTI/ANIKPATI ROY <i>IMD, Tripura University</i> <i>*Email: chakrabartiagnibesh@gmail.com</i>	ABRIDGED VS. UNABRIDGED: A WAR NEVER WON IN THE TEACHING AND LEARNING OF ENGLISH TEXTS IN THE CLASSROOMS
19	SUSHANTA BHOWMIK	LINGUA FRANCA: AN APPROACH TO TEACH AN ENGLISH TEXT IN THE NORTH EAST
20	REBEKA DEBBARMA	STUDENT PARTICIPANT
21	MAYANGLAMBAM SANA	STUDENT PARTICIPANT
22	SOLANKI CHAUDHURY	STUDENT PARTICIPANT
23	TANMOY DEBNATH	STUDENT PARTICIPANT
24	MADHUMITA SINHA	STUDENT PARTICIPANT
25	MINA SARKAR	STUDENT PARTICIPANT
26	ANIMESH NATH	STUDENT PARTICIPANT
27	SANGYUKTA CHAKRABORTY	STUDENT PARTICIPANT
28	AMILI BASAK	STUDENT PARTICIPANT
29	PRADIPTACHAKRABORTY	STUDENT PARTICIPANT
30	ELORA UPADHAYA	STUDENT PARTICIPANT
31	TINAMINU SARKAR	STUDENT PARTICIPANT
32	RATIMOHAN SARKAR	STUDENT PARTICIPANT
33	PRIYANKA PAL	STUDENT PARTICIPANT
34	PRADIP MOLSOM	STUDENT PARTICIPANT
35	PRIYADARSHINI GANGULY	STUDENT PARTICIPANT
36	SUNANDA KAR	STUDENT PARTICIPANT
37	SOUMITA CHAKRABORTY	STUDENT PARTICIPANT
38	MOUMITA SUKLABAIDYA	STUDENT PARTICIPANT
39	PRITAM RAJ CHOWDHURY	STUDENT PARTICIPANT
40	SASWATI BHATTACHARJEE	STUDENT PARTICIPANT
41	TANIYA CHOWDHURY	STUDENT PARTICIPANT
42	RIMI DAS	STUDENT PARTICIPANT
43	BANTI DAS	STUDENT PARTICIPANT

44	SHAPTARSHI MOHANTA	STUDENT PARTICIPANT
45	JAYA SARKAR	STUDENT PARTICIPANT
46	RAJIB DAS	STUDENT PARTICIPANT
47	BULTI SAHA	STUDENT PARTICIPANT
48	ANIMESH MAJUMDER	STUDENT PARTICIPANT
49	PRANAB DEY	STUDENT PARTICIPANT
50	TINKAR DAS	STUDENT PARTICIPANT
51	SOHAG SHIL	STUDENT PARTICIPANT
52	ALOK KUMAR REANG	STUDENT PARTICIPANT
53	JAMES MOLSOM	STUDENT PARTICIPANT
54	ANAND JAMATIYA	STUDENT PARTICIPANT
55	MANTI DAS	STUDENT PARTICIPANT
56	BIKRAMJIT NANDI	STUDENT PARTICIPANT
57	SUBRATA HESH	STUDENT PARTICIPANT
58	PALLABI SAHA	STUDENT PARTICIPANT
59	RAJKUMAR SUBHAJIT SINGH	STUDENT PARTICIPANT
60	SAIKAT DAS	STUDENT PARTICIPANT
61	ASHISH SARKAR	STUDENT PARTICIPANT
62	PRANAY DAS	STUDENT PARTICIPANT
63	KONSAM ROSHAN	STUDENT PARTICIPANT
64	PUJA DAS	STUDENT PARTICIPANT
65	LITAN GHOSAL	STUDENT PARTICIPANT
66	LALDINSANGA MOLSOM	STUDENT PARTICIPANT
67	SUBHAM DATTA	STUDENT PARTICIPANT
68	RAJDEEP DEBNATH	STUDENT PARTICIPANT

LIST of Participants								
Serial No.	Name	Resource Person/Paper Presenter	Title	Date of Arrival/Departure	Amount Paid	With Accommodation arranged	Food/Refreshment	Signature
1	PROF. T.K KHARBAMON Dept of ELT, EFLU, Shillong tkkharbamon@efluc.ac.in	Resource Person	THE ENGLISH TEXT 'BRIDGING THE DISCONNECT BETWEEN THEORY AND PRACTICE	1.11.17 4.11.17	Nil	3		T.K. Kharbamon 2/11/17
2	PROF. MOONMOON MAJUMDER Dept. of English, NEHU moonzip2002@yahoo.co.in	Resource Person	OPENING VISTAS: POLITICS AND SOCIOLOGY OF TEACHING ENGLISH LITERATURE IN THE NORTH EAST	1.11.17 5.11.17	Nil	YES		
3	DR. DEBASISH MOHAPATRA, Dept of English & Culture Tezpur University deva@tezu.ernet.in	Resource Person	MANAGING CLASSROOM DYNAMICS: A CHANGING PERSPECTIVE	1.11.17 5.11.17	Nil	YES		Debasish Mohapatra
4	DR BANIBRATA MAHANTA, Dept of English, BHU bmahantaa@gmail.com	Resource Person	ENGLISH STUDIES IN INDIA: REVIEWING BORDERS, REMAPPING THE TERRAIN	1.11.17 5.11.17	Nil	YES		Banibrata Mahanta

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5	UMA KRISHNASWAMY Faculty, NIFT, Chennai uma_kv@yahoo.com	Resource Person	THE IMPORTANCE OF PICTURE MAKING IN THE TEACHING OF ENGLISH TEXTS: KEEPING TRIPURA AND HER FOLK IN MIND	1.11.17 6.11.17	1500/				<i>Uma K</i>
6	SAUGATA KUMAR NATH Faculty, Department of English, Assam University, Silchar saugatakn@yahoo.co.in & saugatakn@gmail.com	Paper Presenter	TEACHING DRAMA TEXTS IN CLASSROOMS IN THE NORTH EAST INDIA: A STUDY	1.11.17 4.11.17	1500/	YES			<i>02/11/2017</i>
7	ANINDYA SYAM CHOUDHURY Department of English Assam University, Silchar anindyasym@yahoo.com	Paper Presenter	OF PARTITION, MIGRATION AND CITIZENSHIP IN ASSAM: READING POST COLONIAL TEXTS IN THE LOCATION	1.11.17 5.11.17		YES			
8	ALAK CHAKRABORTY Lecturer, Department of English Govt. City College, Chittagong, Bangladesh csalakbd@gmail.com Research Scholar, TU	Paper Presenter	MANAGING A LARGE CLASSROOM AND PROVIDING VOCAL CARE FOR TEACHERS	Local Presenter	1000/	NO			<i>02/11/2017</i>
9	ANNIE MOIRANGTHEM PGT (English), The Eden Public School anniemoirangthem03@gmail.com	Paper Presenter	ENGLISH LANGUAGE TEACHING IN THE RURAL AREAS OF IMPHAL	1.11.17	1500/	YES			<i>Ann M.</i>
	Department of English and Foreign Languages, Tezpur University hatulkojasy@gmail.com	Paper Presenter	STUDENTS' ACADEMIC WRITING SKILLS THROUGH ANALYSIS OF WRITING SAMPLES			YES			<i>[Signature]</i>

11	BHUMIKA R PhD. Scholar JNU New Delhi patrika.bhumika@gmail.com	Paper Presenter	OF TEXTS AND CONSTRUCTS: CONTEMPORARY NAGA LITERATURE IN ENGLISH	1.11.17		YES			
12	BRAJENDRA KISHORE SINHA AND DEBASIS ROY Janthum English Medium High School brajendras2@gmail.com	Paper Presenter	A PEEP INSIDE THE ENGLISH-TEACHING CLASSROOM	Local Presenter		NO			<i>Debasish Roy</i>
13	DEBASISH ACHARJEE Ex-Faculty, ICFAI University Tripura dacharjee95@gmail.com	Paper Presenter	TEACHING SOFT SKILLS IN ENGLISH LITERATURE CLASSROOM: THEORETICAL AND PHYSICAL POSSIBILITIES	Local Presenter	1500/	NO			<i>Debasish Acharjee</i>
14	DR HARIPRASAD ATHANICKAL Department of Film Studies The English and Foreign Languages University hariprasadathanickal@efluniversity.ac.in	Paper Presenter	MOVING BEYOND THE TEXTUAL: TEACHING FILM STUDIES IN AN ENGLISH DEPARTMENT	1.11.17	1500/	YES			<i>[Signature]</i>
15	THUMMA RAJUNDER Assistant Professor, Department of English, Maharaja Bir Bikram University jhumamajunder756@gmail.com	Paper Presenter	CURRICULUM IN A NORTH-EAST CLASSROOM: A STUDY	Local Presenter	1500/	NO			<i>Thumma Rajunder</i> <i>02/11/2017</i>

16	MOUMITA DEBNATH AND NILANJANA BHATTACHARJEE debnathmoumita047@gmail.com b.nilanjana93@gmail.com		Paper Presenter	TEACHING ENGLISH (LANGUAGE AND LITERATURE) TO VERNACULAR MEDIUM STUDENTS IN TRIPURA: A CASE STUDY	Local Presenter	2000/	NO		Moumita Debnath
									Chattahoojee
17	NONGMAITHEM SURAJ KUMAR Research Scholar, Department of English, Nagaland University. surnong5@gmail.com		Paper Presenter	PEDAGOGY AND CURRICULUM OF TEACHING ENGLISH IN MANIPUR SCHOOLS.	1.11.17	1	YES		
18	NONGMAITHEM PRAVENCHANDRA SINGH Department of English, Department of English, Manipur University remoravenshaw@gmail.com		Paper Presenter	LOOKING THROUGH THE LENS OF HARUKI MURAKAMI: POPULAR CULTURE IN THE NORTH EASTERN STATES OF INDIA	1.11.17	15001	YES		N. Praveenchandra
19	SANDIPA DEY AND NAYANTARA BEGAM Triupura University sandipadey1993@gmail.com nayanara.begam@rediffmail.com		Paper Presenter	A PROFILE OF THE PEDAGOGY OF PHONETICS IN UG CLASSES IN TRIPURA	Local Presenter	2000/	NO		Nayantara Begam
									Sandipa Dey

20	SANTANU NIYOGI Department of English Raniganj Girls' College santanuniyogi@yahoo.com	Paper Presenter	ENGLISH IN THE CONTEXT OF LINGUISTIC PLURALITY IN THE NORTH EAST	1.11.17	1500/	YES		<i>Santanu niyogi</i> 02.11.17
	SARMADHIKARI Assistant Professor, Gangarampur College, DakhshinDinajpur, West Bengal,	Presenter	WRITINGS AS 'READERS' IN THE NORTHEAST CLASSROOMS: A STUDY OF SELECT TEXTS.			YES		
22	SOFFY NONGMEIKAPAM PGT English, The Eden Public School Imphal M.A. English, B.Ed. soffynong90@gmail.com	Paper Presenter	THE NEED FOR NORTH- EASTERN CENTRIC STUDIES IN THE ENGLISH CLASSROOM	1.11.17	1500/	YES		<i>soffynong</i>
23	PREETI SHUKLA Associate Professor Department of English Shyamal College Evening University of Delhi preetishukla28@yahoo.co.in	Paper Presenter		1.11.17	1500/	YES		<i>Preeti</i>
24	TANYA MARINA BROOKS Department of EFL, Tezpur University brookstanyamarina@gmail.com	Paper Presenter	THE DICHOTOMY OF CRISIS IN AN ENGLISH CLASSROOM	1.11.17	1000/	YES		<i>TR</i>
25	AMAR DEBNATH Lecturer in English, Women's Polytechnic, Amtali, Tripura(W) newamar2010@rediffmail.com	Paper Presenter	FABLE AND FOLKTALE AS ENGLISH TEXTS IN A SECONDARY LEVEL CLASSROOM: A REVIEW OF STRATEGY IN TRIPURA	Local Presenter	1500/	NO		<i>Amar Debnath</i> 02.11.17

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DEPARTMENT OF ENGLISH
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A 2- Day National Conference

The English Text in a Northeast Classroom:

Pedagogy, Politics and Sociology of English Literature Teaching

Nov 2-3 2017

REGISTRATION OF STUDENT PARTICIPANTS

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①	Solanki choudhury	English 1st sem	300/-	✓	Solanki Choudhury (Eng)
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17	Moumita Subla Baridya	Eng-III	300/-	✓	Moumita Subla Baridya (Eng)
18	Pritham Rai Chowdhury	Eng-III	300/-	✓	Pritham Rai Chowdhury
19	Saswati Bhattacharjee	Eng-III	300/-	✓	Saswati Bhattacharjee
20	Taniya Chowdhury	Eng-III	300/-		

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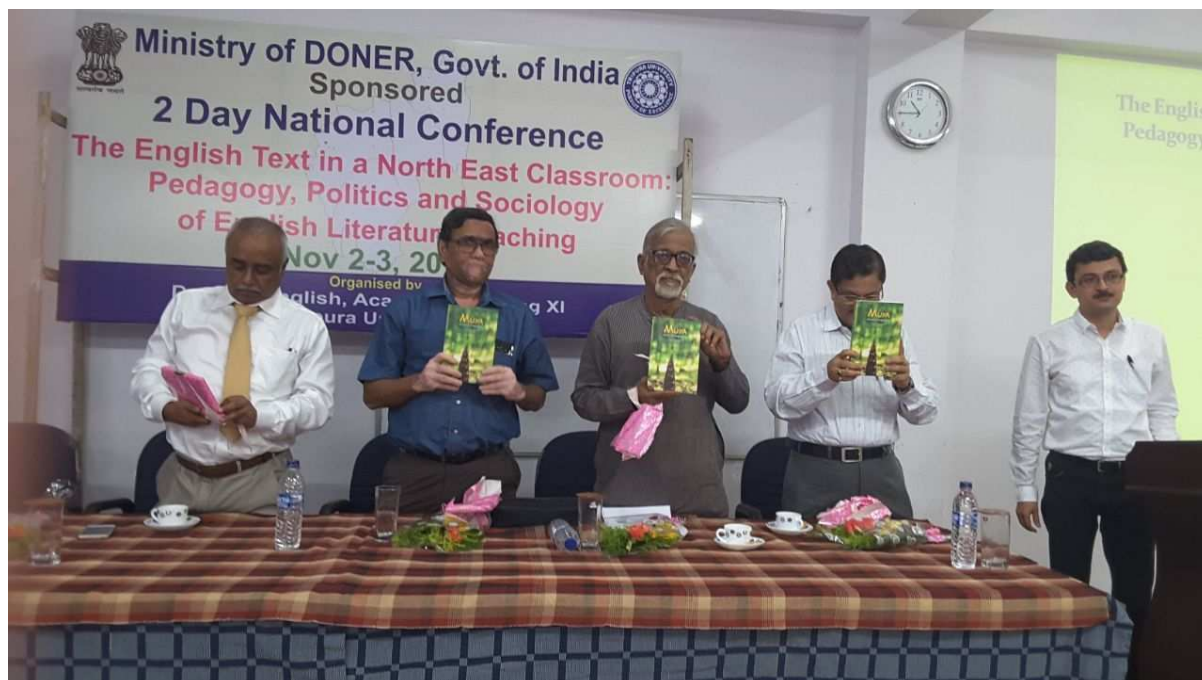
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27.	Animesh Rajumdar	Eng I	300/-	Animesh Rajumdar	Animesh Rajumdar (Eng)
28.	Pranab Dey	Eng I	300/-	Pranab Dey	Pranab Dey (Eng)
29.	Tinkar Das	Eng I	300/-	✓	Tinkar Das (Eng)
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31.	Alok Kumar Reang	Eng III	300/-	✓	Alok Kumar Reang (Eng)
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33.	Anand Chatterjee	Eng III	300/-	✓	Anand Chatterjee
34.	Manti Das	Eng III	300/-	✓	Manti Das
119917361 35.	Bikramjit Nandi	Eng I M.B.B. University	300/-	Bikramjit Nandi	Bikramjit Nandi (Eng I)
36.	Subrata Hesh	Eng - 3rd Sem	300/-	✓	Subrata Hesh
37.	Pallab Saha	Eng - 3rd Sem	300/-	✓	Pallab Saha
38.	Tanuja Choudhury	Eng - 3rd Sem	300/-		Tanuja Choudhury Eng
39.	Abhijit Choudhury	Eng Phd	300/-		Abhijit Choudhury
40.	Rajkumar Shukla	Eng Phd	300/-	✓	Rajkumar Shukla
41.	Saikat Das	Eng 3rd Sem	300/-	✓	Saikat Das
42.	Shruti Sarkar	English	300/-	✓	Shruti Sarkar
43.	Pranab Das	"	300/-	✓	Pranab Das

<u>Name</u>		<u>Dep</u>	<u>Sig.</u>
44. Konam Roshan.	300/-		
45. Puja Das	300/-	Eng.	Puja Das.
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48. Subham Datta *	300	"	Subham Datta
49. Rajdeep Dalmath *	300/-	"	Rajdeep Dalmath
50. Rebera Debbarma			
51. Mayanglambam Sana	300		✓

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PROGRAM COORDINATOR:	DR. CHAITALI GORAI
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Pedagogical Training for Mathematics Teachers (PTMT)

March 26–31, 2018

Organized by: MTTS TRUST

Tripura University, Agartala

Funded by: National Board for Higher Mathematics

Webpage: <http://mtts.org.in/training-programmes/ptmt/>

WHY PTMT?

The Mathematics Training and Talent Search Programme (MTTS) has turned out to be very successful over last two decades and has motivated a large number of students to pursue a career in mathematics. We believe that a large number of students would benefit if we acquaint mathematics teachers with the methodology adopted in MTTS programme. The present programme (PTMT) attempts to familiarize mathematics teachers, teaching at undergraduate and postgraduate levels with the methods followed in MTTS programme. Faculty well-versed with MTTS programme will share the pedagogy of teaching mathematics with participants.

THEME OF PTMT

The theme of this programme will be *Linear Algebra*. Linear Algebra is one of the most important, fundamental and beautiful areas of mathematics. It finds applications in almost all branches of mathematics and in modern real world applications which use computers. Linear algebra has a strong geometric flavour which needs to be transmitted to the students in a rigorous and clear manner. The aim of the programme is to train the teachers to teach linear algebra in an enjoyable and meaningful way following the MTTS methodology.

WHO CAN APPLY?

Any mathematics teacher, teaching in undergraduate or postgraduate departments. Preference will be given to young teachers. **Total number of participants is restricted to 45.**

HOW TO APPLY?

Visit <http://mtts.org.in/training-programmes/ptmt/> to submit your application online. Please note that you also need to send a signed copy of the printout of the application to the programme coordinator.

VENUE & DURATION

Venue Department of Mathematics, Tripura University, Suryamaninagar, Agartala, West Tripura- 799 022

Duration: March 26–31, 2018.

IMPORTANT DATES

- Application Starts from **February 01, 2018**
- Last date for applying is **February 20, 2018**
- List of selected candidates will be published on the PTMT website by last week of **February 2018**.

SELECTION

Selected candidates will be informed of their selection by the end of February, 2018. The list of selected candidates will also be posted on PTMT Webpage.

Candidates selected for the programme will be paid AC-3-tier train/bus fare by the shortest route and will be provided free boarding and lodging for the duration of the course. Any other instructions and guidelines for the participants will be published in the PTMT website.

Accommodation is limited, selection will be made keeping this in mind.

PROGRAMME DIRECTOR

Professor S. Kumaresan
Director, MTTS Programme
School of Mathematics and Statistics
University of Hyderabad, Hyderabad 500 046

Email: kumaresa@gmail.com

Tel: (040) 6679 4059 (O)

PROGRAMME COORDINATOR

Dr. Shyamal Debnath
Department of Mathematics
Tripura University, Agartala
Suryamaninagar, West Tripura- 799 022

Email: shyamalnitamath@gmail.com

Tel: 0381-2379412, 9436548365

MTTS TRUST

MTTS-TRUST is a non-profit educational trust. The primary object of the trust is to organize all activities under MTTS umbrella and any other training camps as deemed necessary or important for the country to keep its eminence in higher mathematics. If you wish to contribute to MTTS in any way (financial or otherwise), please get in touch with us. For more details on the MTTS Trust, visit

www.mtts.org.in/mtts-trust

Those who wish to organize mini-MTTS or PTMT programme can visit

www.mtts.org.in/organize

and apply online. Proposals which assure partial financial support may be given preference.



Sahitya Akademi

and



Department of Hindi, Tripura University

cordially invite you to a

North-East Indigenous Literature Festival

on 10-11 January 2018

at Tripura University, Seminar Hall No. 2,
Suryamaninagar, Tripura.

PROGRAMME

Wednesday, 10 January 2018

Inaugural Session: 11.00 am

Welcome Address	Goutam Paul <i>Officer-in-Charge, Sahitya Akademi, Kolkata</i>
Inauguration	Anjan Kumar Ghosh <i>Vice-Chancellor, Tripura University</i>
Chief Guest	Pradip Acharya <i>Eminent Scholar</i>
Guest of Honour	Caroline R. Marak <i>Eminent Writer</i>
Chair	Chandrakanta Murasingh <i>Eminent Poet</i>
Vote of Thanks	Milan Rani Jamatia <i>HOD In-Charge, Dept. of Hindi, Tripura University</i>

Tea

First session: 12.30 pm

Readings

Ajita Tripura

B. L. Subba

Sonam Wangmu

Chair

Nandakumar Debbarma

Lunch

Second session: 2.30 pm

Readings

Jogamaya Chakma

Rajesh Bathari

Samir Debbarma

Chair

Filmeca Marbaniang

***Folk performance on Hojagiri and Gorla dance
by students of Tripura University at 4.00 pm***

Thursday, 11 January 2018

Third session: 10.00 am

Readings

Joysing Tokbi

Rakesh Debbarma

Sachin Kalai

Chair

R. L. Thanmawia

Fourth session: 11.30 am

Readings

Riquoma Rq. Laloo

Dipali Debbarma

Thowiongya Mog

Chair

Bidyaswar Doley

Lunch

Fifth session: 2.00 pm

Readings

Joram Aniya Tana

Akranta Debbarma

Zohming Thanga Bongcher

Chair

Upen Rabha Hakacham

Valedictory Address

Jai Kaushal, Asstt. Prof. TU

Sahitya Akademi's Book Exhibition-cum-Sale

10-11 January 2018 from 10.00 a.m. to 5.00 p.m.

Ph. (033) 2419 1683; E-mail: saekolkata2@gmail.com

Website : <http://www.sahitya-akademi.gov.in>



हिन्दी विभाग
त्रिपुरा विश्वविद्यालय, सूर्यमणिनगर
द्वारा आयोजित
एवं



साहित्य अकादेमी, कोलकाता केन्द्र
द्वारा प्रायोजित राष्ट्रीय कार्यक्रम

**“पूर्वोत्तर भारत का देशज साहित्य उत्सव”
(North-East Indigenous Literature Festival)**

दिनांक: 10-11 जनवरी, 2018

प्रमाण-पत्र

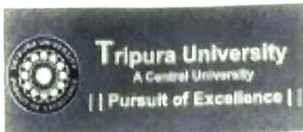
प्रमाणित किया जाता है कि डॉ. मिलन रानी जमातिया, प्रभारी, हिन्दी विभाग, त्रिपुरा विश्वविद्यालय ने “पूर्वोत्तर भारत का देशज साहित्य उत्सव” (North-East Indigenous Literature Festival) विषय पर आयोजित द्वि-दिवसीय राष्ट्रीय कार्यक्रम में स्थानीय-संयोजिका के रूप में सफलतापूर्वक अपनी जिम्मेदारी का निर्वहन किया।

साहित्य अकादेमी, कोलकाता केन्द्र की ओर से इस महत्वपूर्ण योगदान के लिए इनका आभार प्रकट किया जाता है।

संयोजक

(श्री गौतम पॉल)

प्रभारी अधिकारी, साहित्य अकादेमी
कोलकाता केन्द्र



Kalicharan Jha <kalicharanjha@tripurauniv.in>

Award Letter

2 messages

maresh madhukar <nisddivisionicssr@gmail.com>
To: kalicharanjha@tripurauniv.in

Wed, Dec 20, 2017 at 4:23 PM

Dear Dr. Jha,

This is to inform you that your application for organising National Seminar/Conference /Workshop has been placed before the Expert Committee at its meeting held on 15th December 2017. We are happy to inform you that the Committee has recommended an amount of Rs.1,00,000 for organising the seminar. A formal sanction letter is being sent separately.

Best Regards,
M.P. Madhukar
Incharge (ICS Division)
ICSSR

Kalicharan Jha <kalicharanjha@tripurauniv.in>
To: maresb madhukar <nisddivisionicssr@gmail.com>

Tue, Jan 9, 2018 at 9:24 PM

Respected Sir,
Thanks for your encouraging information. I am eagerly waiting for your formal sanction letter for future course of action.

Thanking you,

Yours Faithfully
Dr. Kali Charan Jha
Assistant Professor
Dept. of Hindi
Tripura University

[Quoted text hidden]



“सांस्कृतिक राष्ट्रवाद और मुक्तिबोध”

दिनांक : 26-28 मार्च, 2018

(त्रि-दिवसीय राष्ट्रीय संगोष्ठी)

उद्घाटन : 2 बजे अपराह्न

हिन्दी विभाग, त्रिपुरा विश्वविद्यालय, सूर्यमणिनगर

द्वारा आयोजित

आर्थिक सहयोग: भारतीय सामाजिक विज्ञान अनुसंधान परिषद, नई दिल्ली

तथा ओ.एन.जी.सी. त्रिपुरा परिसंपत्ति, अगरतला

आयोजन-स्थल : सभागार-02, भूतल, अकादमिक भवन-11,

त्रिपुरा विश्वविद्यालय, सूर्यमणिनगर

माननीय कुलपति
त्रिपुरा विश्वविद्यालय

संगोष्ठी-अध्यक्ष
प्रो. अशेष गुप्ता
विभागाध्यक्ष, हिन्दी विभाग

संयोजक
डॉ. काली चरण झा
सहायक प्राध्यापक, हिन्दी विभाग
मो. 09436928223

सह-संयोजक
डॉ. मनोज कुमार मौर्य
सहायक प्राध्यापक, हिन्दी विभाग
मो. 09560515608



AWARENESS PROGRAM

“Rudrasagar Lake: Valuation, Conservation and Management”

Date: 25 November, 2017

Department of Forestry & Biodiversity, Tripura University, Suryamaninagar-799022

&

Rudrasagar Utbastu Fisherman Samabay Samiti Lmt., Rajghat, Melaghar, Sepahijala, Tripura

Financial support: NMHS(MoEF&CC), GBPNIHESD, Almora

Place: Kemtali Hall, Melaghar

Time: 10:00 – 3:00

EVENTS AND PROGRAMS

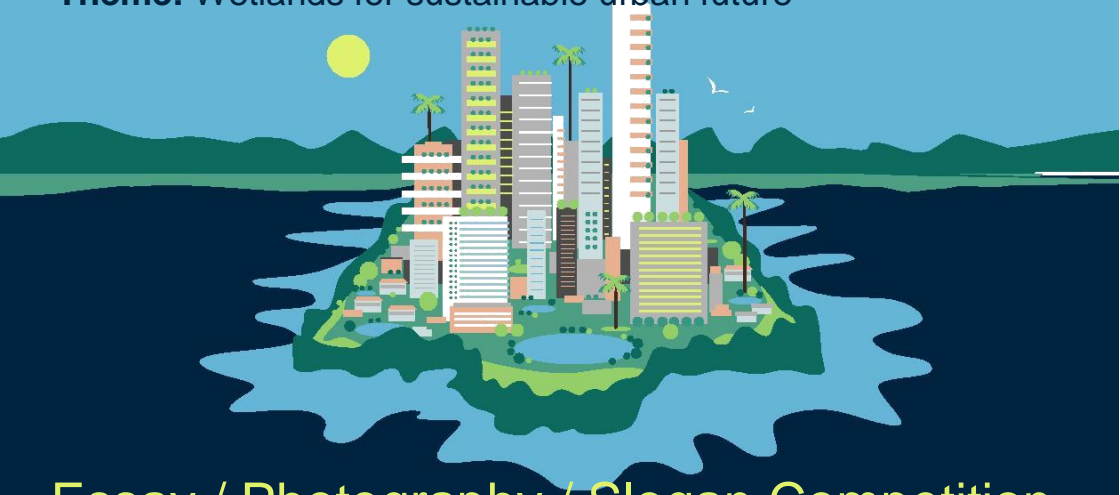
EVENTS	TIME
Registration	10:00-11:00
Inauguration	11:00-11:05
Inauguration Programs	11:05-12:15
Sri Satyaban Das, Secretary (Rudrasagar Utbastu Fisherman Samabay Samiti limited)	11:05-11:10
Sri Sadhan Das, Pradhan, Kemtali Gram Panchayat	11:10-11:15
Dr. Sourabh Deb, Assistant Professor, Dept. of Forestry & Biodiversity, Tripura University.	11:15-11:20
Dr. Sabyasachi Dasgupta, Associate Professor, Dept. of Forestry & Biodiversity, Tripura University.	11:20-11:30
Sri Rakhal Sarkar, General Manager, Tourist Department, Tripura	11:30-11:40
Sri Tapan Chandra Das, MLA, Nalchar	11:40-11:50
Sri Ranjit Barman, President (Rudrasagar Utbastu Fisherman Samabay Samiti limited)	11:50-11:55
Tea Break	11:55-12:05
Detailed Discussion	12:05-03:00
Dr. Sourabh Deb, Assistant Professor, (Dept. of Forestry & Biodiversity, Tripura University) and Principal Coordinator(NMHS, MoEF&CC)	12:05-12:20
Sri Ankur Deb, Branch Manager, NEDFi, Agartala	12:20-12:35
Ms. Moitree Taran, JPF (NMHS) & Research Scholar, (Dept. of Forestry & Biodiversity, Tripura University)	12:35-12:50
The participant discussed	12:50-01:20
PRA Programs	01:20-02:20
Lunch	02:20-03:00
Closing Ceremony	03:00



Forestry and Biodiversity Department, Tripura University conducted one awareness programme on “Rudrasaga lake: its valuation, sustainable management and conservation” in collaboration with Rudrasagar Udbastu Fisherman Samabaya Samity on 25th November, 2017 supported by NMHS (MoEF&CC), GBPNIHESD, Almora. The aim of this awareness programme was to make local people aware about this Ramsar site present in Sepahijala district of Tripura. Dignitaries viz, Ranjit barman (MLA, Nalchar), Mr. Rakhai Sarkar (General Manager of Tripura Tourism), Mr. Ankur Deb (Branch Manager, NEDFi), Dr. Sabyasachi Dasgupta (Associate Professor, FBD), Dr. Sourabh Deb (Asst. Prof., FBD) and Moitree Taran (JPF and Research scholar, FBD) was present in this programme and delivered valuable speeches regarding the sustainable management and conservation of Rudrasagar lake. In this programme one PRA exercise was also conducted where total 141 local people participated and prepare resource map.

World Wetlands Day

Theme: Wetlands for sustainable urban future



Essay / Photography / Slogan Competition

2 February 2018

11:00 –13:00 hrs

VENUE

**Energy Park
Tripura University**

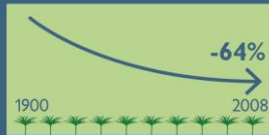


**Organised by:
Department of Forestry
and Biodiversity**

Join us!

Wetlands are DECLINING

More than 64% of the world's wetlands have been lost since 1900



ESTIMATED WETLAND LOSS

While cities are GROWING

50% of the population live in urban areas today. By 2050 that number will increase to 68%



WORLD URBAN POPULATION, 2016-2050

**Share your ideas to
save Wetlands**

Speakers in the Event:

Eminent researchers working in the field of wetland ecology and conservation.

**Send your entry to
coordinator of the event:**

Dr. Sourabh Deb

Email: sdeb@tripurauniv.in

**Who can participate in
Competition?**

Students / Research Scholars/
Staffs / Faculties of Tripura
University

Criteria for entry

Essay: Upto 2000 words

Photography: Digital without
editing or Print in A4 size

Slogan: Upto 15 words

Last date for submission:

31st January 2018, 5:00 PM

Award :

2 entries from each category



#KeepUrbanWetlands

UN HABITAT

Local
Governments
for Sustainability



**World
Wetlands Day**
2 February 2018
Wetlands for a sustainable urban future



evian



#WorldWetlandsDay

www.worldwetlandsday.org

NATIONAL SEMINAR

ON

Plant Science Researches in North East India (PSRNEI)

7th June 2018

Suryamaninagar, Tripura, India.



Organized by:

**Department of Botany Tripura
University (A Central University) Tripura**

**COLLABORATIVE WORKSHOP ON
"TRANSBORDER TRANSACTIONS IN NORTH
EAST INDIA WITH SPECIAL REFERENCE TO
TRIPURA BANGLADESH BORDER"**



Organised by :
Department of Political Science, Tripura University

Sponsored by : National Foundation for India, New Delhi.

Date: 13th -14th September, 2017

Seminar hall



For website advertisement



Workshop on “Techniques for Genomic Research” sponsored by Department of Biotechnology, Govt. of India.

Date : 19 -23rd March, 2018

Time: 10 – 6.00 PM

Venue: State Biotech Hub; Tripura University. Suryamaninagar. Tripura 799 022

Total Seat: Fifteen (15)

Eligibility Criteria: Faculty from universities, Colleges, Research scholars who are doing active research or working towards PhD degree.

Application fee: Nil

Travelling and Daily Allowance: TA/ DA will not be provided

Accommodation: Self arrangement of accommodation.

Fooding: Working lunch will be provided during training

Last date to receive the application: 15th March, 2018

Tentative topics: Plasmid DNA isolation from bacteria, Purity analysis, concentration determination and agarose gel electrophoresis of DNA, Restriction digestion of DNA, RNA isolation, cDNA preparation, PCR, gene expression by real time PCR (qPCR), Microbial Biofilm development characterization, Live/Dead cell analysis in microbial population, Statistical analysis of results

Applications are invited from eligible candidates from different parts of North East states of India. The research minded persons who are highly motivated to do research in the life science, will be highly benefitted. Candidates are requested to provide proper proof of eligibility criteria. No accompanied person will be allowed. **Completed application form with supported documents should be sent on or before 15th March, 2018 to Dr. Debasish Maiti, Coordinator, SBT Hub and Associate Professor, Dept. of Human Physiology, Tripura University, Suryamaninagar, Tripura 799022.**

If you have any queries please email to debumaiti@gmail.com or ☎ 09612426272.



Application Form
(For Attending Workshop on “Techniques for Genomic Research”
19-23rd March 2018, Organized by SBT Hub, Tripura University)

Name (in bold letters):

Father's Name:

Educational Qualification:

Position holding:

Current Research Field:

Reason to join in the workshop:

Current Employer:

Complete Address of the Employer:

Address for communication with phone number and email ID:

Signature of the candidate

Information given in this form are true to the best of my knowledge and belief.

Signature of Supervisor for PhD students.
Seal of the Supervisor.

Signature with seal
Head of the Institute for College applicant



TRIPURA UNIVERSITY
Department of English

EXPENDITURE STATEMENT FOR

Mystic Hills Magical Rivers: A Festival of North Eastern Folkways, held on 15th, 16th & 17th Jan. 2018
Organised by the Dept. of English, Tripura University in collaboration with NEC, Ministry of DoNER, MHRD, Shillong.

S.No.	ITEM & BENEFICIARY	VOUCHER NO.	CREDIT	AMOUNT	REMARK
1.	TA and HONORARIUM				
	Beoashish Mothey and Rakesh Moktan	1-8		Rs.36,467/-	
	Dr. Anyesa Mahanta	9-14		Rs.11,928/-	
	Lalnufsa Ralte	15-20		Rs. 15,647/-	
	Preetinicha Barman	21-26		Rs.09,856/-	
	Prof. Jyotirmoy Pradhan	27-35		Rs. 09,856/-	
	Prof. Somdatta Mandal	36-41		Rs.08,036/-	
	Satish Kumar	42-47		Rs.25,758/-	
	TarunGhosh & Chiranjit Das Bairagya	43-49		Rs.17,496/-	
	Monalisa Changkija	50-55		Rs.15,906/-	
	Manas Ranjan Mahapatra	56a-b		Rs.08,000/-	
	Total of i)			Rs.1,58,980/-	
	ii) Local				
	Sankar Das (5Nos. accompaniment)	57		Rs.05,000/-	
	SantafluChoudhury & party	58		Rs.07,000/-	
	Bijali Chakraborty & party	59		Rs.05,000/-	
	Sanjay Kar	60		Rs. 01,000/-	
	SupritiGhosh	61		Rs.01,000/-	
	Dr. Sayantan Thakur	62		Rs.01,000/-	
	Tithi Debbarman	63		Rs.01,000/-	
	Debashish Endow & party	64		Rs.04,000/-	
	Bikash Ray Debbarma & party	65		Rs.04,000/-	
	Total of ii)			Rs. 29,000/-	
A.	TOTAL (i + ii)			Rs.187,980/-	
2.	Tea and Biscuits- Hasan Miya	66		Rs.05,200/-	
3.	Accommodation- Tripura University Guest House	67-72		Rs.15,740/-	
4.	Ethnic exhibits - Tarubala Debbarma	73-74		Rs.04,470/-	
5.	Bamboo Dance and exhibits- Mizo Welfare Society	75		Rs.04,500/-	
6.	Kit, badge, folder etc. - Studio Mega Print	76		Rs.15,000/-	
7.	Vehicles- Loknath Travels (Jiban Bhattacharjee)	77-93		Rs.40,700/-	
8.	Food Bill- Sudipta Chakraborty	94		Rs.128,472.50	
9.	Stage Light - Sudipta Chakraborty	95		Rs.49,560/-	
10.	PAS- Sudipta Chakraborty	96		Rs.60,180/-	
11.	Decoration (Stage, flex, stalls etc.)-Sudipta Chakraborty	97		Rs. 98,412/-	
12.	Ethnic handicraft exhibits on hire- Rabi DayaJamatia	98		Rs.02,000/-	
13.	Lunch for rehearsal and preparation-Nirmal Biswas	99-100		Rs.05,000/-	
14.	Auditing fees	101		Rs.05,000/-	
B.	TOTAL (2-11)			Rs.4,34,234.50/-	
	GRAND TOTAL (A + B)			Rs.6,22,214.50/-	
C.	Registration fees collection- deposited via challan to TU/AC No.35669996430	101	Rs.0,13,500/-		
D.	Amount Sanctioned as advance from NEC (Approved-Rs.600000/-)			Rs.3,00,000/-	
E.	CREDIT as of now			Rs.3,13,500/-	
F.	Reimbursement sought from NEC out of Rs.600000/-approved.			Rs.3,00,000/-	
G.	Deficit amount			Rs.8,774.50/-	

(Pranay Pal)

Asst. Registrar, Finance, Tripura University

Dept. of English, Tripura University & Organising Secretary for the Fest

Enclosure:----- no. of documents certified and in original.

NB: I would like to mention here that no advance amount was drawn by me for this purpose. Hence, all payments made by the University to the concerned parties as amount Voucher No. 1-8, 42-47 and 43-49, all tickets amounting to Rs. 43,166/- only were reimbursed from Shriya. Hence, the same amount was transferred to the A/c of the former.

Organising Secretary of the Fest

FORM GFR 19-A

(See Government of India's Decision (1) below Rule 150)

FORM OF UTILISATION CERTIFICATE

Sl. No.	Letter No. and date	Amount (Rs. in Lakh)
1	NEC/IPR/372/2013, date : 09.03.2017	6,00,000.00
	Total :	6,00,000.00

Certified that out of Rs. 6,00,000.00 grants-in-aid sanctioned during the year 2016-2017 vide this Letter No. given in the margin, a sum of Rs 6,22,184/-only has been utilized (During 15th January to 17th January i.e. 3Days) for which it was sanctioned and that the balance of Rs Nil remaining unutilized as on 31st January 2017

02. Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly / are being fulfilled and

that I have exercised the following check to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of Checks exercised.

- 01. Sanction Letter
- 02. Bills
- 03. Others Necessary Document



For Gopal Sharma & Co.
Signature : *Rakesh Kumar Sharma*
Partner

Designation : CA Rakesh Kumar Sharma

Date : 08.03.2018

(Sanjit Debroy)
13.3.18
Registrar (I/C)
Tripura University
Surjyamangar-799022

(U. K. DAS)
13/3/18
DR. ASHES GUPTA
Professor,
Department of English.

(U. K. DAS)
18/3/18
Finance Officer,
Tripura University



Organised by the Department of English, Tripura University in collaboration with NEC Shillong.

MYSTIC MOUNTAINS, MAGICAL RIVERS: A FESTIVAL OF NORTH-EASTERN FOLKWAYS

15th, 16th and 17th January, 2018

organised by the
Department of English, Tripura University
in collaboration with
NEC, Shillong.

Concept Note:

India's North East is one of the most amazing and exotic places in Southeast Asia. The mystic stoicism of its hills, magical rivers, overcast valleys, winding roads, ethnic outfits and lip-smacking cuisine lie in wait to enthrall the visitor. A home to over 220 indigenous communities and equal number of languages, cuisine and many belief systems, North East India is also unfortunately one of the most misunderstood regions. The paradoxicality of being an 'exotic paradise' as well as a 'terrorist hub' makes it more incredible than incredible India. Remoteness both geographical and intellectual is an issue that needs to be addressed, not only academically but also through a plethora of activities that shall involve interfaces between Literature, Culture, Art, Craft, Traditions and Performances of the region. The proposed Festival spread across a period of three days aims to be a celebration of life, a festivity of everything Northeastern and the authentication of a uniqueness that attracts by virtue of its being beautiful, vibrant, unique and plural.

The festival also proposes to hold a National Seminar which would serve as a platform for the convergence of myriad folkways in the region as well as their adaptations in other forms of expression such as in art, literature, and music through an academic interface. Papers are invited from writers, researchers, performers and the academia for lively, invigorating and enriching academic sessions. Language is not a barrier and presenters in languages other than English need to provide a workable and brief translation of their presentation/ paper.

National Seminar

ETHOS AND WORLDVIEWS: FOLKWAYS TO THE NORTHEAST

Call for Papers:

Folklore and folk-life not only pertain to the 'shared experiences and wisdom' of a group but also entail social formations and historical potential (*clan vital*) of the group. Folklore, thus, evidently becomes the means of expression of a group's attitudes and cultural life. Many 19th century works of British administrators who acted as amateur anthropologists (Mills, J. Shakespeare, Hutton, Hudson, Verrier Elwin, C. Haimendorf, et al.), provide valuable insights into the nature of folklore of the region. However, their works are fraught with certain limitations for they wrote from an outsider's perspective and also without the advantage of modern methodologies. The same trend could be found

in the late 20th century writings about the northeast by anthropologists from mainland India. The emergence of trained folklorists from the region changed the equation for they write from certain vantage points and their works appear more analytic as against the broadly descriptive style of the formers.

The northeast region of India is a thriving confluence of social groups which express their feelings and worldviews in myth, orature, dance, music, crafts, customs and beliefs. The region has a long tradition of rich and distinct folklore and folklife (in the broad areas of oral literature, material culture, social folk custom and performing folk arts) so much so that it is often described as 'anthropologist's paradise'. The present day 'postcolonial' (the term itself is questionable) northeast can be divided into broad cultural streams of traditional and folk belief systems as well as Buddhist, Christian, Hindu and ethnic faith, "flowing and merging constantly forming a synthesis of a common hope, shared values, traditions, and a sense of oneness" which is more virtual than real.

While we cannot ignore the distinctiveness of each group, one would also find affinities among these groups. Folklore has played an important role because literate tradition emerged in the 19th century for most of these groups. In the absence of a literate tradition, transmission and sustenance of lore depended on the groups themselves. Hence, these groups became performing communities. However, the traditions of writing and telling did not necessarily clash when creative writing began in the region. The folk narrative elements often got merged with the modern narrative. It is no surprise that one finds certain folk elements in the writings of Tamsula Ao or Desmond Kharmawphlang, Mamang Dai, or Nongkynrih, or Robin S. Ngangom because their works are woven around myths, legends and tales from a bygone era. Despite the sudden change that is inevitable in the transition from the oral to the literate tradition, certain cultural markers, intrinsic to the culture with which one writes, do remain intact and recognisable. Hence, the emerging literatures from the northeast are rooted to the writer's immediate environment and the ways of the people. Besides, in the northeast, folk and literate traditions exploit the idea of nature as a vital force and also attribute to them human feelings. Various rituals, customs, songs, etc. bind man to his ancestral environment. Nature, in this sense, is a powerful poetic instrument which reveals the age-old tradition of protecting the ecosystem. We constantly communicate with rivers, mountains, trees, and lakes. For us, mountains and rivers are very much a part of our consciousness for they speak to us and live with us.

Within such a framework, the objective endeavour of this seminar is to look into the vast constituent elements of folkways in the northeast region and their manifestations in the forms of art, music, dance, and modern literature. Papers/lecture demonstrations are invited which may fall under one of the broad areas given hereunder:

1. Performance and Folk Art
2. Oral Literature
3. Material Culture
4. Folk Customs
5. Folk and Modern Literature
6. Folk, Fusion and Rock Music
7. Digital folklore
8. And any other theme that is related to but not limited to the topic.

Submission and format (Abstract):

An Abstract specifying a broad area of not more than 300 words having 5 keywords must be created in MS word using Times New Roman font. The abstract may contain one or two figures if required.

Title of the Abstract: 14 pt., bold, centered.

Author, co-author: 12 pt.

Address: 12 pt., Text: 12 pt.

The Abstract may be sent as an e-mail attachment to ashesgupta@tripurauniv.in. The organiser's intend to publish the papers in a compendium volume.

Registration fee:

1500 INR for outstation participants.

1000 INR for local participants and Research Scholars from beyond Tripura University

0500 INR for Research Scholars of Tripura University.

Important Dates:

Last date for submission of abstracts	5th January, 2018
Date of intimation of acceptance	7th January, 2018
Last date for request for accomodation	10th January, 2018

NB: ABSTRACTS ALREADY SUBMITTED AND ACCEPTED FOR PRESENTATION AS PER PREVIOUS NOTIFICATION/SCHEDULE OF THE SEMINAR-CUM-FEST STAND INVITED FOR PRESENTATION. FOR FRESH SUBMISSION AFTER SCREENING AND SELECTION, INVITATION SHALL BE SENT.

How to Reach:

Agartala has direct flights from Kolkata, Guwahati, and Imphal. Train services are also available from Guwahati and Silchar. Bus and Sumo services also connect Agartala with Silchar, Guwahati, and Shillong. Tripura University is 5 km away from the Agartala Railway Station and 18 km from Agartala Airport.

Travel and Accommodation:

Due to paucity of funds, the organisers are not in a position to reimburse travel expenses of the participants/paper presenters (except Resource Persons). **However, modest arrangements shall be made for food and accommodation.**

On behalf of the organizers:

Prof. Ashes Gupta,
Organising Secretary & Convener of the Fest,
Dept of English,
Tripura University.

I really was never any more than what I was -a folk musician who gazed into the gray mist with tear-blinded eyes and made up songs that floated in a luminous haze. — Bob Dylan, Chronicles, Vol.1

TRIPURA UNIVERSITY

(A Central University)

(Letter No. : NEC/IPR/372/2013 Dated : 09.03.2017, Dept. Of English)

Receipts and Payment Account for the Period 15th to 17th January 2018

<u>Receipts</u>	<u>Amount (Rs.)</u>	<u>Amount (Rs.)</u>	<u>Payment</u>	<u>Amount (Rs.)</u>	<u>Amount (Rs.)</u>
To Receipts from North Eastern Council		300000.00	By Honorarium to Local Participants		29000.00
(Ministry of development of			" Honorarium to Out Station Participants		158950.00
Secretariat north Eastern Region)			" Tea & Tiffin		5200.00
			" Accommodation		15740.00
* Loan from Tripura University		308684.00	" Ethnic Exhibits		4470.00
			" Ethnic handicraft Exhibits		2000.00
* Registration Fees Collection		13500.00	" Dance Programme Expenses		4500.00
			" PA System		15000.00
			" Travelling Expenses		40700.00
			" Stage Lighting		49560.00
			" Decoration		98412.00
			" Fooding Expenses		133472.00
			" PAS		60180.00
			" Audit fees		5000.00
Total :		622184.00	Total :		622184.00

For Gopal Sharma & Co.
FRN 0028030
Chartered Accountants
Ranvir K. S.
Partner

(Sanit Debroy)
13.3.18
(Sanit Debroy)
Registrar (I/C)
Tripura University
Suryamaninagar-799022

(U. K. DAS)
13/3/18
DR. ASHES GUPTA
Professor,
Department of English

(U. K. DAS)
18/3/18
(U. K. DAS)
Finance Officer,
Tripura University

Name: TRIPURA UNIVERSITY

UTILIZATION CERTIFICATE

**AUDIT REPORT
and
STATEMENT OF ACCOUNTS
FOR THE PERIOD**

ENDING



GOPAL SHARMA & CO.

Chartered Accountants

Surjya Road, Near SBI Agartala Bazar Branch

Agartala-799001, Tripura (W), Phone - 08080990096 / 9862994726

त्रिपुरा विश्वविद्यालय

TRIPURA UNIVERSITY

(केन्द्रीय विश्वविद्यालय / A Central University)

सूर्यमणिनगर, अगरतला / Suryamaninagar, Agartala

त्रिपुरा(प.)/Tripura(W.), पिन/PIN - 799022, भारत/INDIA



दूरभाष / Phone : (0381) 237 9003

237 4803

फैक्स / Fax : (0381) 237 4802/3

ई-मेल / E-Mail: registrar@tripurauniv.in

वेबसाइट / Website : www.tripurauniv.in

To
Manas Ranjan Mahapatra
Director (IPR)
North Eastern Council Secretariat
Ministry of Development of North Eastern Region
Nongrim Hills, Shillong-793003

Subject: Prayer for claiming an amount of Rs. 3 lakhs as the remainder of the approved amount of Rs. 6 lakhs for organising 'Mystic Hills, Magical Rivers' the North Eastern Folk Festival at Tripura University by Department of English.

RefNo. NEC/IPR/372/2013 Dated: 09-03-2017.

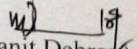
Dear Sir,

Please find enclosed herewith a statement of Expenditure along with Utilization Certificate for which the fund approved was utilized. It is necessary to inform you that an amount of Rs. 3 lakhs was released out of the approved sanctioned amount of Rs. 6 lakhs by NEC vide letter No.NEC/IPR/372/2013 dated 09.03.2017.

Hence it would be appreciated if you release the outstanding amount of Rs. 3 lakhs at the earliest.

Thanking you.

Yours sincerely,


(Sanit Debroy) 12.3.17
Registrar (i/c)
(Sanit Debroy)
Registrar (I/C)
Tripura University
Suryamaninagar-799022



Ministry of Culture
Government of India



Tripura University
Tripura

Sangeet Natak Akademi, New Delhi

National Academy of Music, Dance and Drama

an autonomous body of Ministry of Culture, Government of India

in collaboration with

Department of Music, Tripura University, Tripura

cordially invites you to

**National Workshop on
Hindustani Vocal Music**

हिंदुस्तानी संगीत में प्रस्तुतीकरण के रूप

**Presentational Forms
in Hindustani Music
by**

Shri Vidyadhar Vyas

(Sangeet Natak Akademi Awardee)

5 – 7 March 2018

10:30 a.m. to 1:00 p.m. and 2:30 p.m. to 5:00 p.m. daily

Auditorium- 2, Academic Building 11

Tripura University













NATIONAL SEMINAR
on
DECOLONISING THE INDIAN MIND: EXPLORING
POSSIBILITIES

Organized by

DEPARTMENT OF SOCIOLOGY
TRIPURA UNIVERSITY
(A CENTRAL UNIVERSITY)

March 15-16, 2019




DECOLONISING THE INDIAN MIND: EXPLORING POSSIBILITIES

CONCEPT NOTE OF THE SEMINAR

Mahatma Gandhi's 'Hind Swaraj' is a significant and outstanding vision on decolonizing the Afro-Asian countries. However, Gandhi's vision for Swaraj seems to be elusive as even after seventy years of independence, our country has not been able to free itself from the colonial structures. Although India acquired political independence decades ago, our minds still remain colonized. Through the practices emanating from the colonized mind, we reproduce and reinforce the colonial structures and ideology. The remnants of imposed norms of colonialism coerce our everyday life and activity in multiple ways. The political hegemony established by the colonizers has left behind colonial mode of knowledge and an entrenched colonial worldview. As we know, colonial arrogance was partly driven by colonizer's faith in Western modernity rooted in reason and science; often the colonial Weltanschauung rooted in science was pitched against the native's Weltanschauung rooted in religious dogmas, faith and beliefs.

Colonial rule deeply impacted the national character and various mechanisms were deployed by colonial masters to assert and legitimize the civilizational superiority in the name of 'civilizing' mission and, as a result the colonial rule was justified as a white man's burden to civilize the barbaric East. The process of colonialism, in Ashish Nandy's words, 'helps generalize the concept of modern West from a geographical and temporal entity to a psychological category'. In the long drawn colonial rule and, thereafter, colonized developed an inferiority complex and redefine themselves through the colonial lenses. Unfortunately, this trend continues and, at times, with greater acceleration in post-Independence India, to reaffirm the colonial Weltanschauung as reflected in the westoxicated narratives heavily drawn on western concepts and philosophical traditions.

Aim of this seminar is not to exclude or ignore each and every aspect of colonial heritage. The spirit is that, as Gandhi once remarked, 'I do not want my house to be walled on all sides and my windows to be stuffed. I want the cultures of all the lands to be blown about my house as freely as possible. But I refuse to be blown off my feet by any of them'. Similar, concerns were reflected in Bal Gangadhar Tilak's conception of 'Swaraj'. Tilak ardently affirmed that the greatness of future rests on the greatness of past. A nation can't attain glory by disowning its past



and mindlessly following the colonizers. Tilak believed that India's strength lies in its religious fervor and spirituality. There has been an abiding concern regarding the issue of 'decolonization' in modern Indian social thought.

OBJECTIVES OF THE SEMINAR

The proposed seminar is a prelude to engage with the colonial constructs that rules Indian mindset. The main objectives of the are-

- To interrogate how both historically and contemporarily certain normative conception of legitimate culture, values, beliefs, and practices exhibiting the reminiscence of colonialism enter into our everyday life and, at times manifest or latently exhibits contempt for culture, values, beliefs, and practices that are Indian.
- To look at how a conscious attempt on the part of colonizers to create a consensus that was absent, has now become the only feasible interpretation of social and intellectual possibilities.
- To understand how everyday life in India is governed by the 'cultural arbitrariness' of the colonial times and, in such a scenario, citizens continue to suffer 'symbolic violence' in their own country. When this everyday reality is juxtaposed to the idea of 'freedom', it is worth examining, whether we have attained freedom in true senses.

This seminar proposes to engage with the dialectics of hope and despair, challenges and possibilities. Hope here represents the possibility inherent in the indigenous thoughts and tradition; whereas despair reckons with the captive minds rooted and engrossed with the colonial mindset, values and beliefs- attempting to harvest Indian fruits from Western seeds. While taking a critical and reflexive stance at the contemporary Indian scenario, the proposed seminar would examine the possibility and feasibility of decolonizing Indian mind and exploring possibilities to realise the true potential of our nation. It will be a collective attempt, to revisit the categories through which we view our culture and contribute in creating a spiritually elevated Indian society.

SUB-THEMES OF THE SEMINAR

- **Rediscovering India's Culture and Civilization through Indigenous Epistemology**
- **Decolonization and the Idea of Nationalism in Post-Independent India**
- **Genesis, Prognosis and Practice of Hind Swaraj**
- **Deconstructing the Nexus of Knowledge and Power in Contemporary India**
- **Decolonizing methodology for resurgence of research**

REGISTRATION FOR PARTICIPATION

The seminar will have inter-disciplinary invited speakers working on the aforesaid theme of the seminar. Beside, scholars, faculties and students are requested to participate in the seminar and have dialogic engagement with the speakers of the seminar.

Registration Fee: Nil (On first-come basis, prior confirmation through Email @ rajeevdubey@tripurauniv.in. will be appreciated)

CONTACT INFORMATION

Dr. Rajeev Dubey
(Organizing Secretary)
Assistant Professor, Department of Sociology
Tripura University
Email: rajeevdubey@tripurauniv.in
Phone: +91-8974040172

Prof. K. N. Jena
(Convener)
Professor, Department of Political Science &
Controller of Examination
Tripura University





ICSSR SPONSORED NATIONAL SEMINAR

ON

DECOLONISING THE INDIAN MIND: EXPLORING POSSIBILITIES

March 15-16, 2019

Organised by

DEPARTMENT OF SOCIOLOGY

TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)

Inaugural Ceremony on 15th March 2019 at 10 a.m.

Venue: Academic Building - XI (Hall 01), Tripura University Campus

ICSSR SPONSORED NATIONAL SEMINAR
ON
**DECOLONISING THE INDIAN MIND:
EXPLORING POSSIBILITIES**
March 15-16, 2019





REGISTRATION FORM

(Kindly Register Online First:

<https://sites.google.com/view/tuitw/registration>)



Name:

Designation:

Department:

Organization:

Gender:

Highest Qualification:

Address:

.....

Mobile No:

Amount Paid:

Signature of Participant

ACCOMMODATION

Accommodation can be arranged for external participants with prior information at Tripura University Guest House on Payment basis (Subject to availability).

There will be NO separate TA/DA provided to any participants.

ORGANIZING COMMITTEE

PATRON

Prof. V.L. Dharurkar,
Hon'ble Vice Chancellor, Tripura University

ADVISORY COMMITTEE

Prof. SukantaBanik
Dean (Faculty of Science), TU
Prof. C. B.Majumder
Dean (Faculty of Arts and Commerce), TU
Prof. S. N. Karmakar
Head, Dept. of CSE and ECE, TU
Dr. SwanirbharMajumder
Head, Dept. of IT, TU
Sri SaktiDebbarma
Sr. System Analyst, TU

TREASURERS

Sri. Swarup Nandi, Dept. of IT
Sri.SumantaSaha, Dept. of IT

MEMBERS

Dr. MrinalKantiBhowmik, Dept. of CSE
Dr. AbhishekMajumder, Dept. of CSE
Mrs. Sangita Das Biswas, Dept. of EE
Dr. BishankaBrataBhowmik, Dept. of ECE
Dr. AnirbanKarmakar, Dept. of ECE
Mrs. Gagari Deb, Dept. of EE
Mrs. TandraSarkar, Dept. of IT
Mr. BhaskarBiswas, Dept. of IT

COORDINATORS

For any further information please contact:

Sri Alak Roy

Assistant Professor, Dept of IT
Tripura University, Suryamaninagar
alakroy@tripurauniv.in

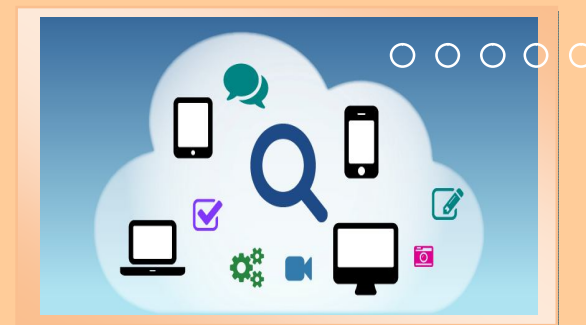
Sri Jayanta Pal

Assistant Professor, Dept of IT
Tripura University, Suryamaninagar
jayantapal@tripurauniv.in

One Week National Workshop

on

Emerging Tools and Technologies in Research



NOVEMBER 5-9, 2018



Organized By

Department of Information Technology

Tripura University

(A Central University)

Suryamaninagar, Tripura (West)-799022

Phone: +91 381 237 4801 Fax: +91 381 237 4802

www.tripurauniv.in

Web: <https://sites.google.com/view/tuitw>

Email: ittuwks@gmail.com

ABOUT TRIPURA UNIVERSITY

The inception of Tripura University can be tracked back to the establishment of UGC recognition Post Graduate Centre of the University of Calcutta at Maharaja Bir Bikram College in the year 1976. In 1987, Tripura University formally came to being in a State University on October 2nd. In the year 2007 it was converted to Central University. The University is the only University by act of the Parliament in the State of Tripura. It is accredited with 'B' grade by NAAC.

HOW TO REACH

Tripura is well connected with Silchar, Shillong and Guwahati by road. Agartala, the state capital of Tripura, is also directly connected with Guwahati, Kolkata, Delhi, Chennai by air. Railway communication is also available between Kolkata, Guwahati, Bangalore, New Delhi and Agartala. Tripura University is situated about 5 km away from the Agartala rail station and 20km away from Agartala airport

ABOUT WORKSHOP

Research is the most important part of Academic Institutes. It includes the knowledge of recent trends as well the tools or techniques to be used for Analysis, Simulations and Others. Main objective of this workshop is divert the attention of researcher with different tools and technologies used specially in the field of research.

The participants will be introduced with the emerging tools and technologies related to the field of research. It will be fruitful not only for engineering researcher but the students of all discipline.

The lectures are will be delivered by the renowned Academicians from various Institutes of India.

SPEAKERS ○ ○ ○ ○ ○ ○ ○ ○

Prof. Paramartha Dutta, VisvaBharati, Shantiniketan
 Dr. Sujay Deb, Dept. of ECE, IIIT Delhi
 Sri Madhusudhan Mishra, Dept. of ECE, NERIST
 Dr. Sabyasachi Dasgupta, Dept. of Forestry & Biodiversity, TU
 Dr. Swanirbhar Majumder, Dept. of IT, TU
 Dr. Samrat Goswami, Dept of RMD, TU
 Dr. Abhishek Majumder, Dept. of CSE, TU
 Dr. Bishanka Brata Bhowmik, Dept. of ECE, TU
 Sri S. Debbarma, Sr. System Analyst, TU
 Sri Alak Roy, Dept. of IT, TU
 Sri Jayanta Pal, Dept. of IT, TU.

KEY TOOLS

- ❖ LaTeX
- ❖ SPSS (Statistical Package for Social Sciences)
- ❖ Introduction to Chip Design
- ❖ Bharateeya Open Office
- ❖ R-Programming
- ❖ Introduction to Online Open Course, Online repository, Online Questionnaire
- ❖ Simulation tools like MATLAB, Network Simulator, QCA Designer, Simulink etc.

SCHEDULE

	10 AM - 11.30 AM		11.45 AM - 1.15 PM	1.15 - 2	2 PM - 3.30 PM		3.45 PM - 5 PM
05-Nov -18 Monday	Registration and Inauguration	TEA BREAK	Research Methodology Honorable VC, TU	LUNCH BREAK	LaTeX Prof. Paramartha Dutta, VisvaBharati	TEA BREAK	LaTeX Prof. Paramartha Dutta, VisvaBharati
06-Nov -18 Tuesday	SPSS Dr. Sabyasachi Dasgupta, TU		SPSS Dr. Sabyasachi Dasgupta, TU		Online Repository / Overleaf Sri Alak Roy, TU		Usage of MOOC's for Learning Sri S. Debbarma, TU
07-Nov-18 Wednesday	MATLAB Dr. Madhusudhan Mishra, NERIST		MATLAB Dr. Madhusudhan Misha, NERIST		Simulink / Online Questionnaires Dr. Swanirbhar Majumder, TU		QCA Designer/ Bharateeya Open Office Sri Jayanta Pal, TU
08-Nov -18 Thursday	ECE related Dr. Bishanka Brata Bhowmik, TU		Network Simulator Dr. Abhishek Majumder, TU		R-Programming Dr. Samrat Goswami, TU		R-Programming Dr. Samrat Goswami, TU
09-Nov -18	Introduction to Chip Design		Introduction to Chip Design		Validatory		Photo Session



त्रिपुरा विश्वविद्यालय

TRIPURA UNIVERSITY

NOTE

Reference No. F.No. TU/17/Workshop/01/18

Date 09/10/18
Dated: 09/10/2018

Subject: **Regarding approval for organizing One-Week National Workshop on Emerging Tools and Technologies in Research from 5th to 9th November, 2018**

The department of Information Technology would like to submit a proposal for conducting a "One-Week National Workshop on Emerging Tools and Technologies in Research" from 5th to 9th November, 2018. The proposed coordinators for the program are Mr. Alak Roy and Mr. Jayanta Pal, both Assistant Professors of the Department. The targeted participants would be PG and PhD Students as well as interested faculty members from the University, affiliated colleges and other educational institutions.

The tentative topics/tools to be covered shall be: Bharateeya Open Office, LaTeX, Usage of MOOC's for self-learning, Online repository (e.g. Mendeley, Google Scholar, SciFinder), Online Questionnaire Creation (e.g. Google Form), SPSS (Statistical Package for Social Sciences), R-Programming, MATLAB, Network Simulator, QCA Designer and Hardware description Languages. The participants shall get an overview on these tools from the experts so that they can use them in their respective research areas.

There shall be a **nominal registration fee of Rs. 100/- (one hundred) per participant** for around 50 participants which shall amount to Rs. 5000/- (Five thousand only). No lunch, TA/DA or accommodation shall be provided to the participants. The tentative budget is as under:

Sl. No.	Item	Quantity	Days	Rate (INR)	Total (INR) (Approx)
1	Tea	50x2 cups/day	5 days	₹10	₹5,000
2	Biscuit	6 pkts/day	5 days	₹30	₹900
3	Flex Printing and Fitting	3 flex	One time	--	₹2,500
4	Certificate (for Participants, Organizers and Speakers)	80	One time	₹20	₹1,600
5	Registration Kit	50	One time	₹50	₹2,500
6	Misc.	--	--	--	₹2,500
Total					₹15,000

Kindly provide us the necessary approval for conducting the workshop as well as sanction the balance amount of Rs. 10,000 (Ten Thousand only) i.e. (15,000-5,000) for organizing it.

(Swanibhar Majumder)
Head, Department of IT

Enclosures:

1. Proposed workshop details and proposed organizing committee

Honourable, Vice-Chancellor

FO for work file
9/10/18

Rs. 1000/- Sanction →
advance.

12/10/18

22/10

Bill Sec
12.10.18

BILL PREPARED
12/10/18
SIGNED

To

The Finance Officer
Tripura University
Suryamaninagar, Tripura

Date: 06/12/2018

[Through Proper channel]

Subject: **Adjustment for advance and prayer for reimbursement of excess expenditures incurred for One-Week National Workshop on Emerging Tools and Technologies in Research** during 05th to 09th November, 2018.

Respected Sir,

With due respect, I would like to inform you that the department of Information Technology, Tripura University have successfully conducted a **One-Week National Workshop on Emerging Tools and Technologies in Research** during 05th to 09th November, 2018. With the kind helping hand from your side I have received an amount of Rs. 10,000/- (Ten Thousand only) in advanced and collected Rs. 7800/- (Seven Thousand Eight Hundred only) from 78 registered participants as registration fee (Rs. 100/- (one hundred) per participant).

The adjustment for the total amount is given in **ANNEXURE-I**, represented by 11 nos. of vouchers.

In this regard, I would like to draw your attention that, initially the seat limit was 50, but due to a large number of responses we have extend the limit and 78 participants (50 limit+ 28 extra) have registered and there were over expenditure in respect to the budget prepared.

The total expenditure amounting to Rs. 24,945/- (**Twenty Four Thousand Nine Hundred Forty Five Only**) was incurred for the intended purpose for which Rs. 17800/- (Rs. 10,000 from University and Rs. 7800/- from Participants) was the actual budget. Now I would like to respect you to reimburse the balance incurred amount of Rs. 7145/- (Seven Thousand One Hundred Forty Five Only).

Submitted for your kind perusal and necessary action please.

Yours Sincerely

Alak Roy
06/12/2018
(Mr. Alak Roy)

Workshop Coordinator
Department of Information Technology
Tripura University, Suryamaninagar

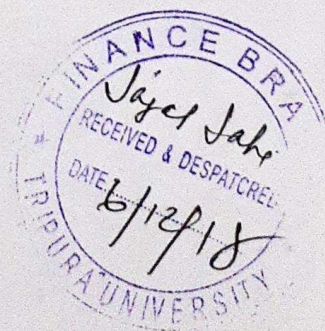
Enclosure:

1. ANNEXURE-I
2. Copy of Participant Registration for the workshop
3. Vouchers in original

Assistant Professor
Dept. of Information Technology
Tripura University
(A Central University)

forwarded

06/12/18





Department of Information Technology

TRIPURA UNIVERSITY (A Central University)
Suryamaninagar, Tripura West, India - 799022

Phone: +91 381 237 9372
Fax: +91 381 237 4802
Email: hod_it@tripurauniv.in
Web: www.tripurauniv.in

Dated: 31/10/2018

To
The Joint Registrar,
Development and Planning
Tripura University,
Suryamaninagar, Tripura

Subject: Requirement of "Seminar Hall-I" for "One-Week National Workshop on Emerging Tools and Technologies in Research" from 05/11/2018 to 09/11/2018.

Respected Sir,

This is to inform you that on approval of the Honorable Vice Chancellor, Tripura University a "One-Week National Workshop on Emerging Tools and Technologies in Research (ETTR-18)" has been scheduled for "PG and PhD Students as well as interested faculty members from the University, affiliated colleges and other educational institutions" from 05/11/2018 (Monday) to 09/11/2018 (Friday).

In this regard the "Seminar Hall-I" shall be required during the office hours of 05/11/2018 to 09/11/2018. The details are as under:

Program: **One-Week National Workshop on Emerging Tools and Technologies in Research**

Date: **05/11/2018 (Monday) to 09/11/2018 (Friday)**

Venue: **Seminar Hall-i, Academic Building 11 (XI), Tripura University.**

Kindly, permit the undersigned to organize the program for around 60 participants from different affiliated colleges of the University, on the aforesaid date in the Seminar Hall-I of Academic Building 11 (XI) on the aforementioned date.

Thanking You.

Yours Sincerely

Jayanta Pal
31/10/18

(Jayanta Pal)

Coordinator, ETTR-18

Assistant Professor

Dept. of IT, Tripura University





One Week National Workshop on Emerging Tools and Technologies in Research (ETTR-18)

05 – 09 November, 2018

Department of Information Technology
Tripura University (A Central University)
Suryamaninagar– 799022 Tripura, India

PATRON

Prof. V.L. Dharurkar
Hon'ble Vice Chancellor,
Tripura University

ADVISORY COMMITTEE

Prof. Sukanta Banik
Dean (Faculty of Science), TU
Prof. C. B. Majumder
Dean (Faculty of Arts and
Commerce), TU
Prof. S. N. Karmakar
Head, Dept. of CSE and ECE,
TU
Dr. Swanirbhar Majumder
Head, Dept. of IT, TU
Sri Sakti Debbarna
Sr. System Analyst, TU

COORDINATORS

Alak Roy
Assistant Professor
Department of IT, TU
&
Jayanta Pal
Assistant Professor
Department of IT, TU

TREASURER

Sri. Swarup Nandi
Dept. of IT
&
Sri. Sumanta Saha
Dept. of IT

MEMBERS

Dr. Mrinal Kanti Bhowmik, CSE
Dr. Abhishek Majumder, CSE
Mrs. Sangita Das Biswas, EE
Dr. Bishanka B. Bhowmik, ECE
Dr. Anirban Karmakar, ECE
Mrs. Gagari Deb, EE
Mrs. Tandra Sarkar, IT
Mr. Bhaskar Biswas, IT

CONTACTS

Emails: alakroy@tripurauniv.in;
antapal@tripurauniv.in
Ph: 9436243766; 9774829599

INVITATION

Respected Sir/ Madam,

We have the immense pleasure to inform you that, Department of Information Technology (IT), Tripura University is going to organize a “One-Week National Workshop on Emerging Tools and Technologies in Research” for “PG and PhD Students as well as interested faculty members from the University, affiliated colleges and other educational institutions” from 05/11/2018 (Monday) to 09/11/2018 (Friday) at the Seminar Hall I of Academic Building XI of the University.

In this occasion we take the privilege to invite you to grace the Inauguration function on 11 AM, 05th November, 2018 (Monday).

We will be highly obliged if you kindly accept our invitation and grace the occasion by your kind presence.

Thanking You.

Yours Sincerely,

Alak Roy and Jayanta Pal

Coordinator, ETTR-18

Department of IT, TU

Reach Us: <https://sites.google.com/view/tuitw> Mail Us: ittuwks@gmail.com

One-week National Workshop on Emerging Tools and Technologies in Research
5th to 9th November, 2018
Department of Information Technology, Tripura University, Suryamaninagar, Tripura, India
 WebSite: <https://sites.google.com/view/tuitw>
 Email: ittuwks@gmail.com

TENTATIVE SCHEDULE

	10 AM - 11.30 AM		11.45 AM - 1.15 PM	1.15-2 PM	2 PM - 3.30 PM		3.45 PM - 5 PM
05-Nov -18 Monday	Registration and Inauguration	TEA BREAK	Research Methodology	LUNCH BREAK	LaTeX	TEA BREAK	LaTeX
			Honorable VC, TU		Prof. Paramartha Dutta, VisvaBharati		Prof. Paramartha Dutta, VisvaBharati
06-Nov -18 Tuesday	SPSS Dr. Sabyasachi Dasgupta, TU		SPSS Dr. Sabyasachi Dasgupta, TU		Online Repository / Overleaf		Usage of MOOC's for Learning
					Sri Alak Roy, TU		Sri S. Debbarma, TU
07-Nov-18 Wednesday	MATLAB Dr. Madhusudhan Mishra, NERIST		MATLAB Dr. Madhusudhan Misha, NERIST		Simulink / Online Questionnaires		QCA Designer/ Bharateeya Open Office
					Dr. Swanirbhar Majumder, TU		Sri Jayanta Pal, TU
08-Nov -18 Thursday	ECE related Dr. Bishanka Brata Bhowmik, TU		Network Simulator Dr. Abhishek Majumder, TU		R-Programming Dr. Samrat Goswami, TU		R-Programming Dr. Samrat Goswami, TU
09-Nov -18 Friday	Introduction to Chip Design Dr. Sujay Deb, IIIT Delhi		Introduction to Chip Design Dr. Sujay Deb, IIIT Delhi		Validatory		Photo Session

Report on the Awareness about MOOCs in ***One Week National Workshop on Emerging Tools and Technologies in Research*** organized by Dept of IT, Tripura University from 5th to 9th November' 2018

A One Week National Workshop on Emerging Tools and Technologies in Research was conducted in the University by the Department of IT. In this workshop:

- Inaugural lecture (5th November'18), the Keynote speaker honourable Vice Chancellor, Tripura University, Prof. V. L. Dharurkar spoke about present day research tools and methodology. He emphasized on usage of MOOCs
- Mr. S. Debbarma spoke about NPTEL and its difference with other heads of MOOCs under SWAYAM on 6th November'18.
- Dr. S. Majumder created awareness among faculty and students about SWAYAM and spoke on the SWAYAMPBHA channels on 7th November'18.



Inauguration of the Programme by Honourable Vice Chancellor, Tripura University, Prof. V. L. Dharurkar, with Deans and SPOC SWAYAM



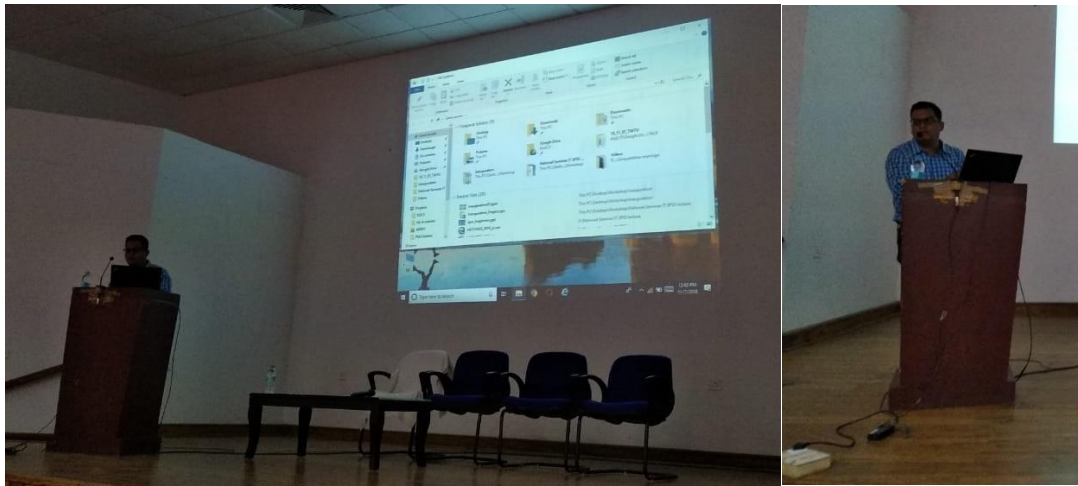
Felicitation of SPOC SWAYAM by coordinator of the Program, Dr. Alak Roy.



Mr. S. Debbarma, SPOC NPTEL Speaking about NPTEL and MOOCS



Valedictory Speech by Dr. Jayanta Pal, Co-coordinator of the Programme.



Dr. S. Majumder, SPOC SWAYAM Speaking about SWAYAM and SWAYMPRABHA



The Organizing Committee of the *One Week National Workshop on Emerging Tools and Technologies in Research*



The Participants of the *One Week National Workshop on Emerging Tools and Technologies in Research*



Dr. Alak Roy, Tripura University <alakroy1@gmail.com>

INVITATION for Inauguration of One-Week National Workshop on Emerging Tools and Technologies in Research, Dept of IT

Alak Roy <alakroy@tripurauniv.in>

Sat, Nov 3, 2018 at 1:20 PM

To: dean science <dean_science@tripurauniv.in>

Cc: sukbanik@rediffmail.com, sukbanik@tripurauniv.in

Bcc: Jayanta Pal <jayantapal@tripurauniv.in>, Alak Roy Email <alakroy@tripurauniv.in>, Swanirbhar Tripura University <SwanirbharMajumder@tripurauniv.in>

Respected Sir,

We have the immense pleasure to inform you that, Department of Information Technology (IT), Tripura University is going to organize a "One-Week National Workshop on Emerging Tools and Technologies in Research" for "PG and PhD Students as well as interested faculty members from the University, affiliated colleges and other educational institutions" from 05/11/2018 (Monday) to 09/11/2018 (Friday) at the Seminar Hall I of Academic Building XI of the University.

In this occasion we take the privilege to invite you to grace the Inauguration function.

We will be highly obliged if you kindly accept our invitation and grace the occasion by your kind presence.

Thanking You.

With Regards,

Alak Roy & Jayanta Pal

Coordinators, National Workshop on Emerging Tools and Technologies in Research

Department of Information Technology, Tripura University

Suryamaninagar, Agartala, Tripura 799022, India

Visit Us: <https://sites.google.com/view/tuitw>

Email us: ittuws@gmail.com, alakroy@tripurauniv.in (Alak Roy), jayantapal@tripurauniv.in (Jayanta Pal)

Phone No: 09436243766 (Alak Roy), 09774829599 (Jayanta Pal)

2 attachments



Invitation_DeanSc.pdf

338K



Brochure_ETTR-18.pdf

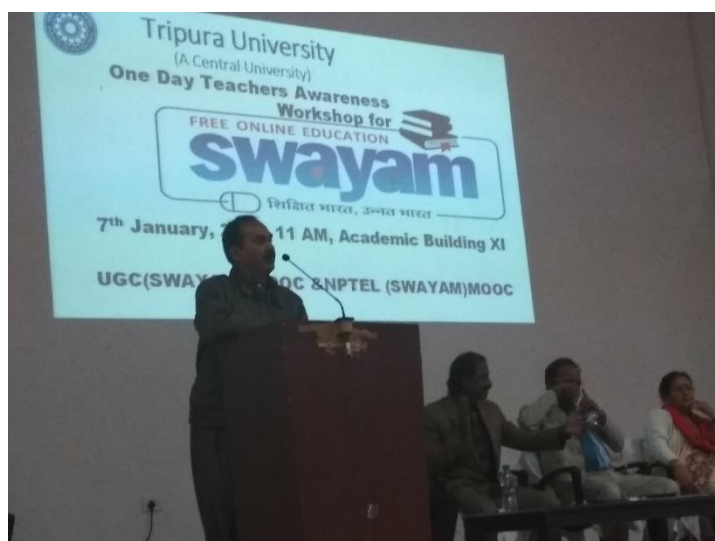
593K

Awareness Workshop on MOOCs under SWAYAM and NPTEL dated 07-01-19

Mr. S. Debbarma and Dr. S. Majumder organized an awareness workshop for students. Honourable Vice Chancellor, Tripura University, Prof. V. L. Dharurkar in the presence of the Deans as well as faculty members of the university, spoke about the MOOCs and encouraged the students to take up their subjects of choice under MOOCs and that he shall be initiating credit transfer soon.



Honourable Vice Chancellor, Tripura University, Prof. V. L. Dharurkar speaking about MOOCs



SPOC NPTEL Speaking about NPTEL



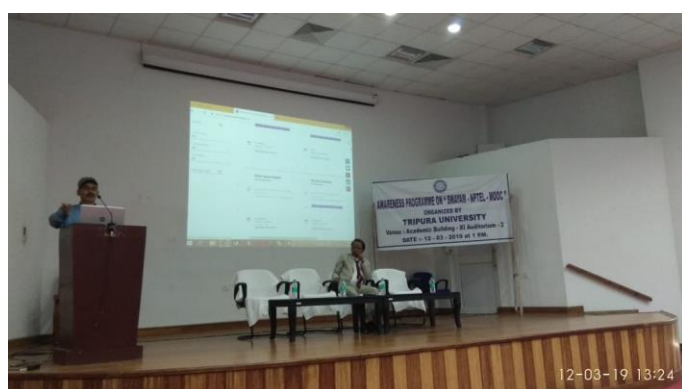
Prof. S. Das speaking about development of MOOCs from faculty side



The SPOC NPTEL and SPOC SWAYAM of Tripura University

A one-day Awareness Programme on SWAYAM NPTEL MOOCs was held on 12th March'2019 in The Auditorium I of Academic Building 11 of Tripura University in the presence of Prof. V. L. Dharurkar, Honourable Vice Chancellor, Tripura University, Prof. Sukanta Banik, Dean, Faculty of Sciences, Dr. Swanirbhar Majumder, Coordinator Swayam and Mr. S. Debbarma Coordinator NPTEL. All the NPTEL toppers were awarded for their performance in the program.

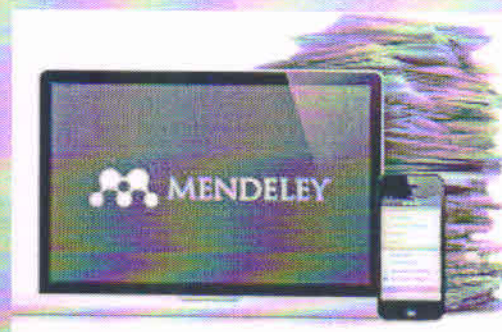
The awareness for the Online courses was also done for the students who joined the University in the 2019-20 session. As normally the University allows credit transfer from SWAYAM from 2nd semester onwards. The students have also been motivated seeing their seniors and faculty like Dr. Arup jyoti Sharma (Course Topper of a NPTEL course) being honoured on dais by the Honourable VC, Tripura University.





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TRIPURA UNIVERSITY**

ORGANISING AND SHARING YOUR RESEARCH USING CITATION MANAGEMENT TOOL: MENDELEY



**FRIDAY, MAY 27TH
11 AM onwards**

**Venue: Seminar Hall, Dept. of Chemical & Polymer Engineering
Tripura University**

List of Attendees

Workshop on "Organizing And Sharing Your Research Using Citation Management Tool: Mendeley"

27th July 2018, Dept of Chemical & Polymer Engineering, Tripura University

Sl No.	Name	Department	Signature
1.	HARJEET NATH	Chem. & Poly. Engg.	H. NATH
2.	Sushanta Dhar	Chemical and Polymer Engg.	Sushanta Dhar
3.	Rohini Thangir Ralte	PSYCHOLOGY	R. Thangir Ralte
4.	Nubhish Chhangte	PSYCHOLOGY	Nubhish Chhangte
5.	DIPANKAR DAS	Material Science & Engg.	D. Das
6.	Siemata Das	Chemical & Polymer Engg.	S. Das
7.	Misc Sahidul Ali	Chemical & Polymer Engg.	M. Sahidul Ali
8.	Arbab Mitra	Chemical & Polymer Engg.	A. Mitra
9.	Bukanta Raam	Chemical & Polymer Engg.	B. Raam
10.	Paisocapt Sarker	Chemical & Polymer Engg.	P. Sarker
11.	TAMAL RUDRA PAUL	Chemical & Polymer Engineering	Tamal Rudra Paul
12.	Dr. Bishnu P. Koiry	Dept. of B.Voc Rubber Technology	B. Koiry
13.	Sayan Mauryan	Dept of B.Voc Rubber Technology	Sayan Mauryan
14.	Soumyadeep Bera	B.Voc Rubber Technology	S. Bera
15.	Chaudhary Chak	Chemical & Pol. Engg.	C. Chak
16.	Jaydeep Das	Chemical & Polymer Engg.	J. Das
17.	Dipankar Das	Material Science and Engg.	D. Das
18.	Gujata Modak	B.Voc Rubber Technology	G. Modak
19.	Aakita Deb	B.Voc Rubber Technology	A. Deb
20.	Poonam Debnath	B.Voc Rubber Technology	P. Debnath
21.	Sachin Bhattacharya	Chem. & Poly Engg.	S. Bhattacharya



1 Day Seminar On

PARTICLE CHARACTERIZATION BY LASER DIFFRACTION AND DYNAMIC LIGHT SCATTERING



(Jointly organized by Dept. of Chemical & Polymer Engg., Tripura University and Anton Paar India Pvt. Ltd.)

(15th March 2019)

Speaker:

Dr. Parminder Singh
Application Manager for Characterization Division,
Anton Paar, India

Agenda:

- ☐ 9:30 - 11:00 am (Laser Diffraction, Principle and Applications)
- ☐ 11:10 am - 12:10 pm (Dynamic Light Scattering, Principle & Applications)
- ☐ 12:20 - 12:40 pm (Q&A)
- ☐ 12:40 - 1:30 pm (Instruments on display/Hands-on)

Dates:

- ☐ Last date of registration : 12th March
- ☐ Selection intimation: 13th March

Venue:

- ☐ Department of Chemical and Polymer Engg., Tripura University

Topics to be covered:

- ☐ Basics of particle sizing
- ☐ Principle of Laser Diffraction
- ☐ Optical Properties involved in laser Diffraction
- ☐ What we have as Particle Size Analyzers
- ☐ Method Development
- ☐ Applications
- ☐ Principle of Dynamic Light Scattering
- ☐ Measurements with DLS
- ☐ Dynamic Light Scattering Instruments Applications
- ☐ Q&A

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Chemical and Polymer Engineering, Tripura University, Suryamaninagar-790022

List of Participants for seminar on "Particle Characterization by Laser Diffraction and Dynamic Light Scattering"
15th March, 2019

(Department of Chemical and Polymer Engineering, Tripura University)

Sl	Name	Department	Email	Signature
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*

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26105312, 26105245, 26105526

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सेवा में

डॉ. कालीचरण झा

त्रिपुरा विश्वविद्यालय (केंद्रीय विश्वविद्यालय)

सूर्यमणि नगर, अगरतला (त्रिपुरा)-799022

विषय:- जगदम्बी प्रसाद यादव स्मृति प्रतिष्ठान के सहयोग से त्रिपुरा विश्वविद्यालय (केंद्रीय विश्वविद्यालय) सूर्यमणि नगर, अगरतला (त्रिपुरा) में राष्ट्रीय संगोष्ठी के आयोजन हेतु।

महोदय,

उपर्युक्त संबंध में कृपया आप अपने दिनांक 19.11.2018 के पत्र का संदर्भ देखें, आपके प्रस्तावानुसार दिनांक 18.01.2019 एवं 19.01.2019 तक प्रस्तावित तिथियों पर संगोष्ठी का आयोजन केंद्रीय हिंदी निदेशालय तथा जगदम्बी प्रसाद यादव स्मृति प्रतिष्ठान के सहयोग से त्रिपुरा विश्वविद्यालय (केंद्रीय विश्वविद्यालय) सूर्यमणि नगर, अगरतला (त्रिपुरा) के संयुक्त तत्वावधान में किया जा सकता है।

संगोष्ठी में निदेशालय नियमानुसार वित्तीय भार वहन करेगा। संगोष्ठी में पर्याप्त संख्या में छात्र- छात्राओं, शिक्षकों तथा हिंदी प्रेमियों की उपस्थिति एवं स्थानीय प्रचार सुनिश्चित कराना आपका दायित्व होगा।

विषय: राजभाषा एवं साहित्य

तिथि : 18.01.2019 एवं 19.01.2019

स्थान : त्रिपुरा विश्वविद्यालय (केंद्रीय विश्वविद्यालय) सूर्यमणि नगर, अगरतला (त्रिपुरा)

समय: प्रातः 9.30 बजे से सायं 4.30 बजे तक

संगोष्ठी में भाग लेने वाले विद्वान इस प्रकार हैं :-

संगोष्ठी में भाग लेने वाले हिंदी भाषी विद्वान

1. श्री वीरेन्द्र कुमार यादव, बिहार
2. श्री रणविजय राव, नई दिल्ली
3. डॉ. शांति जैन, बिहार
4. डॉ. अशुमाला, झारखंड

हिंदीतर भाषी विद्वान

1. डॉ. देवेन दास, असम
2. डॉ. फिलामिका, मेघालय
3. प्रो. सराज, हैदराबाद
4. श्री के.एच. सदाशिव सिंह, मणिपुर

संगोष्ठी में भाग लेने वाले स्थानीय विद्वान इस प्रकार हैं:

1. श्री रामेश्वर भट्टाचार्य
2. श्री अकबर अहमद
3. श्री चंद्रकांता मुरासिंह
4. श्री विमलेन्द्र चक्रवर्ती
5. श्री देवव्रत देव
6. श्री रविन्द्र देव वर्मा
7. श्रीमती सुमिता धर
8. श्री कल्याण व्रत चक्रवर्ती
9. श्री अरुणोदय साहा
10. डॉ. मनिका दास
11. प्रो. एल. धारुरकर

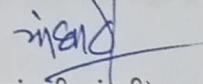
डॉ० कालीचरण झा का नाम संगोष्ठी के स्थानीय संयोजक के रूप में चुना गया है। आमंत्रित सभी विद्वानों का अपना वक्तव्य सुलिखित/टंकित रूप में प्रस्तुत करना होगा, जिसे स्थानीय संयोजक द्वारा संगोष्ठी रिपोर्ट के साथ निदेशालय के प्रतिनिधि को सौंपा जाएगा। संगोष्ठी हेतु सभी बाह्य विद्वानों को निदेशालय द्वारा आमंत्रण पत्र भेजे जा रहे हैं। आपसे संगोष्ठी में पधारे सभी आमंत्रितों को ठहराने की व्यवस्था कराने की अपेक्षा की जाती है। संगोष्ठी में निदेशालय की ओर से श्रीमती गांधारी पांगती, सहायक निदेशक, श्रीमती अंजू सिंह, सहायक निदेशक एवं डॉ. अनुपम माथुर, सहायक निदेशक त्रिपुरा पहुंचेंगे। आमंत्रित विद्वानों को तथा निदेशालय से वहाँ पहुंचने वाले अधिकारियों के ठहराने की समुचित व्यवस्था तथा स्टेशन से लाने तथा वापस भिजवाने की व्यवस्था कराना अपेक्षित है। चूंकि नए प्रावधानों के अनुसार संगोष्ठी आयोजित किए जाने पर दिए जाने वाले भत्तों का सीधे खाते में ई.सी.एस. द्वारा भुगतान किया जाएगा। इस संबंध में कैसिल चैक की फोटो प्रति तथा वेंडर फार्म भरकर बिलों के साथ संलग्न करने होंगे। स्थानीय विद्वानों को भी इस संबंध में जानकारी अपेक्षित है।

संगोष्ठी के प्रयोजनार्थ, बैनर एवं निमंत्रण पत्र का नमूना संलग्न है।

शुभकामनाओं सहित।

संलग्न : यथोपरि

भवदीय



(गांधारी पांगती)

सहायक निदेशक (विस्तार)



भारत सरकार

GOVERNMENT OF INDIA

केंद्रीय हिंदी निदेशालय

CENTRAL HINDI DIRECTORATE

मानव संसाधन विकास मंत्रालय

(MINISTRY OF HUMAN RESOURCE DEVELOPMENT)

(उच्चतर शिक्षा विभाग)

(DEPARTMENT OF HIGHER EDUCATION)

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नई दिल्ली/NEW DELHI-110066

दिनांक/DATED :

तार : राजभाषा

Tele : Rajbhasha

फोन/Phone : 26178454, 26105211

26105213, 26105214, 26105243

26105312, 26105245, 26105526

फैक्स/Fax : 26100758, 26103160

26102575

www.hindinideshalaya.nic.in

सेवा में

डॉ. कालीचरण झा

त्रिपुरा विश्वविद्यालय (केंद्रीय विश्वविद्यालय)

सूर्यमणि नगर, अगरतला (त्रिपुरा)-799022

विषय:- जगदम्बी प्रसाद यादव स्मृति प्रतिष्ठान के सहयोग से त्रिपुरा विश्वविद्यालय (केंद्रीय विश्वविद्यालय) सूर्यमणि नगर, अगरतला (त्रिपुरा) में राष्ट्रीय संगोष्ठी के आयोजन हेतु।

महोदय,

उपर्युक्त संबंध में कृपया आप अपने दिनांक 19.11.2018 के पत्र का संदर्भ देखें, आपके प्रस्तावानुसार दिनांक 18.01.2019 एवं 19.01.2019 तक प्रस्तावित तिथियों पर संगोष्ठी का आयोजन केंद्रीय हिंदी निदेशालय तथा जगदम्बी प्रसाद यादव स्मृति प्रतिष्ठान के सहयोग से त्रिपुरा विश्वविद्यालय (केंद्रीय विश्वविद्यालय) सूर्यमणि नगर, अगरतला (त्रिपुरा) के संयुक्त तत्वावधान में किया जा सकता है।

संगोष्ठी में निदेशालय नियमानुसार वित्तीय भार वहन करेगा। संगोष्ठी में पर्याप्त संख्या में छात्र- छात्राओं, शिक्षकों तथा हिंदी प्रेमियों की उपस्थिति एवं स्थानीय प्रचार सुनिश्चित कराना आपका दायित्व होगा।

विषय: राजभाषा एवं साहित्य

तिथि : 18.01.2019 एवं 19.01.2019

स्थान : त्रिपुरा विश्वविद्यालय (केंद्रीय विश्वविद्यालय) सूर्यमणि नगर, अगरतला (त्रिपुरा)

समय: प्रातः 9.30 बजे से सायं 4.30 बजे तक

संगोष्ठी में भाग लेने वाले विद्वान इस प्रकार हैं :-

संगोष्ठी में भाग लेने वाले हिंदी भाषी विद्वान

1. श्री वीरेन्द्र कुमार यादव, बिहार
2. श्री रणविजय राव, नई दिल्ली
3. डॉ. शांति जैन, बिहार
4. डॉ. अशुमाला, झारखंड

हिंदीतर भाषी विद्वान

1. डॉ. देवेन दास, असम
2. डॉ. फिलामिका, मेघालय
3. प्रो. सराज, हैदराबाद
4. श्री के.एच. सदाशिव सिंह, मणिपुर

संगोष्ठी में भाग लेने वाले स्थानीय विद्वान इस प्रकार हैं:

1. श्री रामेश्वर भट्टाचार्य
2. श्री अकबर अहमद
3. श्री चंद्रकांता मुरासिंह
4. श्री विमलेन्द्र चक्रवर्ती
5. श्री देवव्रत देव
6. श्री रविन्द्र देव वर्मा
7. श्रीमती सुमिता धर
8. श्री कल्याण व्रत चक्रवर्ती
9. श्री अरुणोदय साहा
10. डॉ. मनिका दास
11. प्रो. एल. धारुरकर

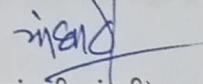
डॉ० कालीचरण झा का नाम संगोष्ठी के स्थानीय संयोजक के रूप में चुना गया है। आमंत्रित सभी विद्वानों का अपना वक्तव्य सुलिखित/टंकित रूप में प्रस्तुत करना होगा, जिसे स्थानीय संयोजक द्वारा संगोष्ठी रिपोर्ट के साथ निदेशालय के प्रतिनिधि को सौंपा जाएगा। संगोष्ठी हेतु सभी बाह्य विद्वानों को निदेशालय द्वारा आमंत्रण पत्र भेजे जा रहे हैं। आपसे संगोष्ठी में पधारे सभी आमंत्रितों को ठहराने की व्यवस्था कराने की अपेक्षा की जाती है। संगोष्ठी में निदेशालय की ओर से श्रीमती गांधारी पांगती, सहायक निदेशक, श्रीमती अंजू सिंह, सहायक निदेशक एवं डॉ. अनुपम माथुर, सहायक निदेशक त्रिपुरा पहुंचेंगे। आमंत्रित विद्वानों को तथा निदेशालय से वहाँ पहुंचने वाले अधिकारियों के ठहराने की समुचित व्यवस्था तथा स्टेशन से लाने तथा वापस भिजवाने की व्यवस्था कराना अपेक्षित है। चूंकि नए प्रावधानों के अनुसार संगोष्ठी आयोजित किए जाने पर दिए जाने वाले भत्तों का सीधे खाते में ई.सी.एस. द्वारा भुगतान किया जाएगा। इस संबंध में कैसिल चैक की फोटो प्रति तथा वेंडर फार्म भरकर बिलों के साथ संलग्न करने होंगे। स्थानीय विद्वानों को भी इस संबंध में जानकारी अपेक्षित है।

संगोष्ठी के प्रयोजनार्थ, बैनर एवं निमंत्रण पत्र का नमूना संलग्न है।

शुभकामनाओं सहित।

संलग्न : यथोपरि

भवदीय



(गांधारी पांगती)

सहायक निदेशक (विस्तार)



हिन्दी-विभाग, त्रिपुरा विश्वविद्यालय, सूर्यमणिनगर द्वारा आयोजित एवं गेल (इंडिया) लिमिटेड, अगरतला केन्द्र तथा ऑयल एण्ड नेचुरल गैस कॉरपोरेशन लिमिटेड, अगरतला द्वारा प्रायोजित

41वाँ अखिल भारतीय नागरी लिपि सम्मेलन

दिनांक : 05 अक्टूबर, 2018, प्रातः, 10:30 बजे

प्रथम-सत्र : उद्घाटन-समारोह

- 10:00 बजे प्रतिभागियों का पंजीकरण
- 10:30 बजे नागरी लिपि परिषद एवं नेशनल बुक ट्रस्ट द्वारा आयोजित पुस्तक प्रदर्शनी का उद्घाटन- श्रीमान सुदीप रॉय बर्मन, माननीय मन्त्री, स्वास्थ्य एवं परिवार कल्याण, विज्ञान, तकनीकी एवं पर्यावरण, इंडस्ट्री एवं कॉमर्स (आईटी) और पीडब्ल्यूएस (डीडब्ल्यूएस), त्रिपुरा सरकार द्वारा
- 10:35 बजे अतिथियों का मंच पर आगमन
- 10:40 बजे स्वागत गीत - त्रिपुरा विश्वविद्यालय के विद्यार्थियों द्वारा
- 10:45 बजे दीप-प्रज्वलन- अतिथियों द्वारा
- 10:50 बजे अतिथियों का स्वागत
- 11:00 बजे स्वागत भाषण -डॉ. मिलन रानी जमातिया, हिन्दी विभाग, त्रिपुरा विश्वविद्यालय द्वारा
- 11:10 बजे बीज-वक्तव्य- डॉ. हरिसिंह पाल, महामन्त्री, नागरी लिपि परिषद, नई दिल्ली द्वारा
- 11:20 बजे स्मारिका तथा अन्य पुस्तकों का लोकार्पण : अतिथियों द्वारा
- 11:35 बजे नागरी सम्मान-
1. त्रिपुरा राष्ट्रभाषा प्रचार समिति, धर्मनगर (त्रिपुरा)
 2. डॉ. अतुल देवबर्मा, नागरी प्रचारक, वरिष्ठ चिकित्सक एवं विधायक, कृष्णपुर, त्रिपुरा
 3. डॉ. एम.एल. गुप्ता, निदेशक, वैश्विक हिन्दी सम्मेलन, मुंबई
 4. डॉ. मिलन रानी जमातिया, त्रिपुरा विश्वविद्यालय
- 12:00 बजे विशिष्ट अतिथि का उद्बोधन- प्रो. अवनीश कुमार, अध्यक्ष, वैज्ञानिक एवं तकनीकी शब्दावली आयोग
- 12:10 बजे विशिष्ट अतिथि का उद्बोधन- डॉ. किरण हजारीका, सदस्य, विश्वविद्यालय अनुदान आयोग, दिल्ली
- 12:20 बजे विशिष्ट अतिथि का उद्बोधन- प्रो. प्राण जग्गी, अन्तरराष्ट्रीय हिन्दी समिति, न्यूयॉर्क, अमेरिका
- 12:30 बजे विशिष्ट अतिथि का उद्बोधन- डॉ. राकेश कुमार, सहायक निदेशक, केन्द्रीय हिन्दी निदेशालय, दिल्ली
- 12:40 बजे विशिष्ट अतिथि का उद्बोधन- श्री वीरेन्द्र यादव, सदस्य, हिन्दी सलाहकार समिति, भारत सरकार
- 12:45 बजे विशिष्ट अतिथि का उद्बोधन- श्री रामपद जमातिया, विधायक, बागमा, त्रिपुरा
- 12:50 बजे विशिष्ट अतिथि का उद्बोधन- श्री राम प्रसाद पॉल, विधायक, सूर्यमणिनगर, त्रिपुरा
- 12:55 बजे सम्मानित अतिथि का उद्बोधन- श्रीमान सानित देबराय, कुलसचिव, त्रिपुरा विश्वविद्यालय
- 01:00 बजे सान्निध्य-कुलपति, त्रिपुरा विश्वविद्यालय
- 01:05 बजे मुख्य अतिथि का उद्बोधन- माननीय सुदीप रॉय बर्मन, स्वास्थ्य मन्त्री, त्रिपुरा सरकार
- 01:10 बजे अध्यक्षीय उद्बोधन- डॉ. परमानंद पांचाल जी द्वारा
- 01:20 बजे धन्यवाद ज्ञापन- डॉ. शहाबुद्दीन नियाज शेख, राष्ट्रीय उपाध्यक्ष, नागरी लिपि परिषद, नई दिल्ली
- संचालन- डॉ. जय कौशल, हिन्दी विभाग, त्रिपुरा विश्वविद्यालय द्वारा

Minister
31/10/2018

त्रिपुरा विश्वविद्यालय

TRIPURA UNIVERSITY

(केन्द्रीय विश्वविद्यालय / A Central University)

सूर्यमणिनगर, अगरतला / Suryamaninagar, Agartala

त्रिपुरा(प.) / Tripura (W), पिन/PIN – 799022, भारत/ INDIA



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237 4803,

फैक्स / Fax : (0381) 237 4802/3

ई-मेल / E-Mail: registrar@tripurauniv.in

वेबसाइट / Website : www.tripurauniv.in

No. F.TU/REG/PF-T/121/11

Date:-28.03.2019

OFFICE ORDER

Dr. Sourabh Deb, Assistant Professor, Department of Forestry and Biodiversity, Tripura University is hereby allowed to conduct a skill development workshop at Rudrasagar Lake, Tripura from 25.03.2019 to 05.04.2019.

Financial and Technical support will be provided from the Project fund.

This is issued with the approval of the Hon'ble Vice- Chancellor, Tripura University.

(S. C. Das)

Assistant Registrar(Admin)

✓ To

Dr. Sourabh Deb,
Assistant Professor,
Department of Forestry and Biodiversity,
Tripura University.

Copy to:-

1. P.S to the Hon'ble Vice-Chancellor, Tripura University.
2. The Finance Officer, Tripura University.
3. The HOD, Department of Forestry and Biodiversity, Tripura University.
4. The Project Section, Tripura University.

রুদ্রসাগর জলাশয়ে সংরক্ষণের জন্য সরকার তথা সাধারণ মানুষকে একসাথে কাজ করতে হবে। বিশেষত পরিযারী পাখি শিকার ও জলদূষণ রোধে সকলকে এগিয়ে আসতে হবে। জলে বিষ প্রয়োগ করে অবৈধ মৎস্য শিকার বন্ধ করতে হবে। সর্বোপরি এই জলাশয়ের সংরক্ষণ ও ইহার সঠিক পরিচালনার জন্য সরকার এবং আশেপাশের বিভিন্ন সম্প্রদায়ের মানুষকে একসাথে কাজ করতে হবে।

উত্তর পূর্ব ভারত হস্তশিল্পের জন্য বিখ্যাত। হস্তশিল্প জীবিকা নির্বাহনের একটি অন্যতম মাধ্যম। এটি বিপুল সংখ্যক মানুষের কর্মসংস্থান ও আয়ের উৎস। রুদ্রসাগর জলাশয়ে কচুরীপানা উদ্ভিদটি খুব গজিয়ে উঠে। তাই এই উদ্ভিদ থেকে ব্যবহারযোগ্য অনেক জিনিস তৈরী করা যেতে পারে, যেমন- জুড়ি, ব্যাগ, জেকোট, ল্যাম্প স্ট্যান্ড ইত্যাদি।

কচুরীপানা হল মুক্ত ভাসমান বহুবর্ষজীবী একটি জলজ উদ্ভিদ এবং এটি পাওয়া যায় গ্রীষ্ম প্রধান ও সাবক্রান্তীয় উত্তর আমেরিকা ও পূর্ব এশিয়া মহাদেশের (ত্রিপুরা, আসাম, পশ্চিম বাংলার) সর্বত্র জলাভূমিতে এই উদ্ভিদ রয়েছে। উদ্ভিদটির কাণ্ড খুবই ছোট, কাণ্ড থেকে প্রচুর পরিমাণে গুচ্ছ মূল বের হয়। অনেক সময় এই মূল অগভীর জলের মধ্যে দিয়ে মাটিতে প্রবেশ করে। পাতা পঞ্জের ন্যায় বোটাযুক্ত এবং তার মধ্যভাগ ডিম্বাকৃতি। উদ্ভিদটি প্রায় ১ মিটার পর্যন্ত লম্বা হয়ে থাকে।

কচুরিপানা বায়োগ্যাস উৎপাদন করতে পারে। এছাড়া এটিকে ব্যবহার করা হয় জল পরিষ্কারক হিসাবে এবং মাশরুম উৎপাদনে ও এর স্তর ব্যবহার করা হয়।

এই উদ্ভিদটি বিভিন্ন ব্যবহারে মধ্য রয়েছে যেমন পাতাপচা সার(কম্পোষ্ট) তৈরী করা নানা প্রকার ফসলের মাটি ঢাকার আবরণ। টাটকা পশুখাদ্য, গৃহসজ্জার সারঞ্জাম প্রভৃতির কাঁচামাল হিসাবে এর ব্যবহার রয়েছে। কচুরিপানা জৈবগ্যাস, প্রোটিন ও পটাসের উৎস। কচুরিপানা জলজ প্রাণীদের জন্য সামান্য প্রতিকূল পরিবেশ সৃষ্টি করে। অন্যদিকে এই উদ্ভিদ থেকে আবার হস্তশিল্পের দ্বারা সমাজে মানুষের প্রয়োজনীয় অনেক কিছু তৈরী করা যায় তেমনি এই উদ্ভিদটি মাটির সাথে সহজে মিশে যেতে পারে।

কচুরীপানা থেকে হস্তশিল্পের প্রস্তুতি :

- যেকোন জলাশয় থেকে প্রাপ্ত বয়স্ক কচুরিপানা সংগ্রহ করতে হবে।
- প্রতিটি উদ্ভিদদের পাতা ও মূল কেচি দিয়ে কেটে নিতে হবে।
- কেটে নেওয়া অংশগুলিকে ভালোভাবে ধুইয়ে রোদ্রে শুকাতে হবে।
- এক সাপ্তাহ ভালোভাবে রোদ্রে শুকানোর পর ঐ কাণ্ড গুলি সংগ্রহ করে নিতে হবে।
- কাণ্ড গুলি শুকিয়ে গেলে বাদামি বর্ণে পরিণত হয়ে যায় এবং কচকচে শব্দ করবে।
- কাটামো তৈরী করার জন্য কিছু পরিমাণ জালিবেত সংগ্রহ করতে হবে।
- কাণ্ড গুলিকে চ্যাপ্টা করার জন্য উইল মশিন নিতে হবে।
- ফর্মা বানানোর জন্য ফেভিকল নিতে হবে।

বর্তমানে NMHS (MoEF&CC)-র সহায়তায় ত্রিপুরা বিশ্ববিদ্যালয়ের বন ও জীববৈচিত্র্য বিভাগ এবং রুদ্রসাগর উদ্বাস্ত মৎস্যজীবী সমবায় সমিতির যৌথ প্রচেষ্টায় রুদ্রসাগরের বাস্তুতান্ত্রিক পরিবেশের মূল্য নির্ধারণ এবং কচুরীপানা থেকে হস্তশিল্প ও অন্যান্য জলজ উদ্ভিদের উপর গবেষণা মূলক কাজ চলাছে।

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“ রুদ্রসাগরের বাস্তুতান্ত্রিক মূল্য নির্ধারনে দক্ষতা মূলক কর্মসূচি ”

২রা মে থেকে ৬ই মে, ২০১৯ ইং

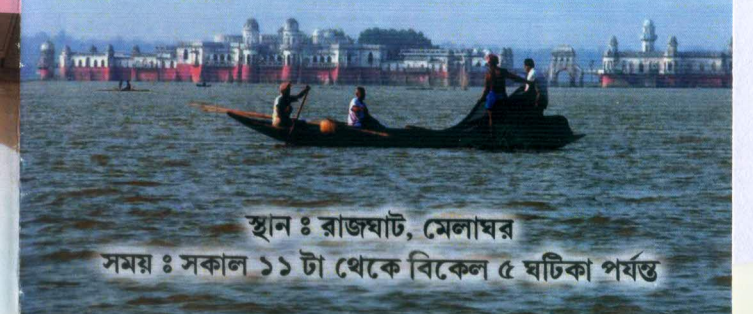
আয়োজক

বন ও জীববৈচিত্র্য বিভাগ, ত্রিপুরা বিশ্ববিদ্যালয়,
সূর্যমণিনিগর - ৭৯৯০২২

এবং

রুদ্রসাগর উদ্বাস্ত মৎস্যজীবী সমবায় সমিতি লিঃ,
রাজঘাট, মেলাঘর, সিপাহীজলা, ত্রিপুরা।

আর্থিক সাহায্য প্রদান :
NMHS (MoEF&CC), GBPNIHESD, Almora



স্থান : রাজঘাট, মেলাঘর

সময় : সকাল ১১ টা থেকে বিকেল ৫ ঘটিকা পর্যন্ত



২৪০ হেক্টর আয়তন সম্পন্ন রুদ্রসাগর একটি প্রাকৃতিক জলাশয় যার জলের উৎস হচ্ছে নোয়াছড়া, দূর্লভ নারায়নছড়া এবং কেমতলীছড়া নামক এই তিনটি ছড়া। রুদ্রসাগর ত্রিপুরার রাজধানী আগরতলা থেকে ৫৫ কিমি. দূরে সিপাহীজলা জেলার মেলাঘরে অবস্থিত। এই জলাশয়ের জল কাচি গাং নামক একটি স্থান দিয়ে প্রবাহিত হয়ে গোমতী নদীতে পতিত হয়। ৮ই নভেম্বর ২০০৫ ইং এই জলাশয়কে ‘রামসার সাইট’ হিসাবে ঘোষণা করা হয়।

কারণ-

- ১) এই জলাশয় বিশ্বের বিপন্ন প্রজাতিভুক্ত কিছু জীব সম্প্রদায়ের আশ্রয়স্থল।
- ২) এখানে জীববৈচিত্র্যের ভারসাম্য রক্ষাকারী উদ্ভিদ ও প্রাণী বসবাস করে।
- ৩) ইহা মাছের খাবারের উৎস।

এই জলাশয় ২৩° ২৯’ উত্তর অক্ষাংশ ও ৯০° ০১’ দক্ষিণ দ্রাঘিমাংশের মধ্যে অবস্থিত এবং এর আশেপাশের তাপমাত্রা গ্রীষ্মকালে ৩১-৩৮° সেলসিয়াস এবং শীতকালে ৪-৮° সেলসিয়াস পর্যন্ত হয়ে থাকে। এই জলাশয়ের তলভাগ পলিমিশ্রিত কাদামাটি দ্বারা গঠিত।

এই জলাশয়ে কচুরীপানা, পানীফল, মাখনা, শাপলা, কেশরদাম প্রভৃতি জলজ উদ্ভিদ জন্মায়। মাছের উপযুক্ত বাসস্থান হওয়ায় এই জলাশয়ে বিভিন্ন রকমের মাছ (বাটা, পাবদা, মুগেল, চিড়ি প্রভৃতি) পাওয়া যায়, যার মধ্যে ৬টি বিরল ও ৯টি বিপন্ন প্রজাতিভুক্ত। IUCN রেড বুক এর অন্তর্গত বিপন্ন প্রজাতিভুক্ত কাছিম-কচ্ছপ (কাছুগা ডংগোকা) এক সময় এই জলাশয়ে পাওয়া যেত।

রুদ্রসাগরের আশেপাশে অবস্থিত ১১টি গ্রামে (জনঘনত্ব ৬৫০ জন/বর্গকিমি) মোট ২০০০টি জেলে পরিবার বসবাস করে। জলাশয়ের পার্শ্ববর্তী কৃষিজমিতে শীতে “বোরো ধান” ও বিভিন্ন ধরনের মৌসুমী সব্জির চাষ হয়। এই জলাশয়ের চারপাশে ১৯৫০ ইং সালে পূর্ব পাকিস্থান থেকে আগত মানুষদের বসবাস করার অনুমতি প্রদান করা হয়, যারা পরবর্তীতে ১২-১১-১৯৫১ ইং “রুদ্রসাগর উদ্বাস্তু ফিসারম্যান দপ্তর থেকে রুদ্রসাগর জলাশয় পুনর্বাসন হিসেবে পায়। বর্তমানে এই সমিতিই জলাশয়ের রক্ষনাবেক্ষন ও পরিচালনার কাজে নিযুক্ত আছে। বিভিন্ন লাইসেন্স প্রদানের মাধ্যম এরা জলাশয় থেকে রাজস্ব আয় করছে-

- ১) জলাশয়ে মাছ ধরার অধিকার।
- ২) জলাশয়ের পার্শ্ববর্তী জমিতে চাষাবাদ করা।
- ৩) নৌকা ভ্রমণ।

রুদ্রসাগর এর আশেপাশে বসবাসকারীদের বিভিন্ন পরিষেবা প্রদান করে যেমন :

i) সামগ্রিক পরিষেবা:

- ১) এই জলাশয় স্থানীয় অনেক মানুষের পানীয় জলের উৎস।
- ২) জলাশয়ে মাছ বিক্রী করে অনেকেই জীবিকা নির্বাহন করে।
- ৩) জলাশয়ে মাখনা কেশরদাম ইত্যাদি বিভিন্ন ধরনের ঔষধি উদ্ভিদ জন্মায়।
- ৪) পানিফল, মাখনা, শাপলা ইত্যাদি জলজ উদ্ভিদ, শামুক, বিনুক এবং কাকড়া ইত্যাদি খাদ্য হিসাবে ব্যবহৃত হয়।

ii) Cultural পরিষেবা:

- ১) মহারাজা বীরবিক্রম কিশোর মানিক্য বাহাদুর ১৯৩৮-১৯৫৩ ইং সালে “নীরমহল” নামক একটি গ্রীষ্মকালীন

অবকাশের জন্য প্রাসাদ নির্মান করেন যা বর্তমানে পর্যটকদের কাছে আকর্ষণের কেন্দ্রবিন্দু হয়েছে প্রতিবছর রাজ্য পর্যটন বিভাগ এরদ্বারা রাজস্ব আয় করে।

২) জলাশয়ে শীতকালে প্রচুর পরিযায়ী পাখি আসে যা এই স্থানকে পাখি প্রেমিকদের জন্য একটি আকর্ষণীয় কেন্দ্র হিসেবে গড়ে উঠেছে।

৩) অনেক পর্যটক রুদ্রসাগর জলাশয়ে নৌকা ভ্রমণ করে আনন্দ উপভোগ করেন।

৪) রুদ্রসাগরের ঐতিহাসিক গুরুত্ব থাকায় ইহা ছাত্রছাত্রীদের কাছে আকর্ষণীয় হয়ে উঠেছে।

iii) Regulatory পরিষেবা :

১) জলাশয়ের উদ্ভিদ ও মাটি বায়ুর কার্বন-ডাই-অক্সাইডকে নিজের মধ্যে আবদ্ধ করে পরিবেশে কার্ব-ডাই-অক্সাইডের পরিমাণ নিয়ন্ত্রণ রাখতে সাহায্য করে।

২) রুদ্রসাগরের আশেপাশে এলাকার জলচক্র, নাইট্রোজেন চক্র ইত্যাদি নিয়ন্ত্রণে বিশেষ ভূমিকা পালন করে।

৩) আবহাওয়া নিয়ন্ত্রণে কাজ করে।

iv) Supporting পরিষেবা:

রুদ্রসাগর বিভিন্ন উদ্ভিদ ও প্রাণীকে বসবাস করার উপযুক্ত পরিবেশ প্রদান করে যা জীববৈচিত্র্য রক্ষা করতে সহায়ক।

রুদ্রসাগর জলাশয় দিনদিন যে সকল অসুবিধার সম্মুখীন হচ্ছে তা হল- ১) পলির কারনে জলাশয়ের গভীরতা হ্রাস ২) কচুরীপানার অত্যাধিক বৃদ্ধিতে নৌকা চলাচলে অসুবিধা ৩) ভূমি অধিগ্রহণ ৪) নিকটবর্তী কলকারখানার কারনে পরিবেশ দূষণ ৫) অবৈধ মৎস শিকার ৬) পরিযায়ী পাখি শিকার ৭) জলে বর্জ্য পদার্থ ফেলা।





GLOBAL INITIATIVE FOR ACADEMIC NETWORKS (GIAN)
INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
Kharagpur - 721302



No.IIT/GIAN/S-18/1529

Date: 10/08/2018

To
The Vice Chancellor
Tripura University
Suryamani Nagar, Bikramnagar
Tripura - 799022

Subject: Approval of courses and sanction of funds for implementation of Global Initiative for Academic Networks (GIAN) programme during this financial year.

Sir/Madam,

I am pleased to inform you the GIAN implementation committee has approved the proposals submitted from your Institute/University as detailed in the following table.

#	Course Info	Start/End Date	Amount allotted (max.)
1	174022C01: Toward an Integrated, Transdisciplinary Science of Humans-in-Nature: Social-economical-ecological Systems (SESs) and Ecosystems Foreign Expert: Giovanni Zurlini, Italy Coordinator: Dr Thiru Selvan, Forestry and Biodiversity, Tripura University	19/11/2018 to 30/11/2018	\$12000 (Rs. 8.16 Lakh) (for 20 lectures in 12 days)

The validity of this approval order is subjected to fulfilling the following terms and conditions:

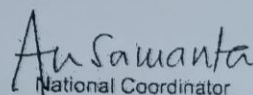
1. The amount allocated for each course is the maximum amount and is to be spent for (a) honorarium and travel of one foreign expert/faculty only (b) lecture note preparation (c) video recording of the course (d) contingencies and miscellaneous expenses, if any. A maximum of Rs. 1.5 lakhs (for one week course, 10-14 lectures) and Rs. 2 lakhs for (2 weeks course, 20-28 lectures) can be spent for items (b), (c) and (d) only.
2. The activities in the scheme should be limited to the extents of fund available with the grantee Institution at any given time. The grantee Institution would bear responsibility for any expenditure incurred over and above available grants and the sanctioning authority or MHRD would not be liable to reimburse the same, on a routine basis, except as per rules.
3. A statement of expenditure and utilization certificate of the fund released signed by the appropriate financial authority should be sent within 30 days after completion of the course. The GIAN implementation Committee will be liberty to blacklist those Institutions, which do not submit the

FO PL done PLS 11/11/18

utilization certificate within the prescribed time from any future participation in the GIAN initiative and recommend to MHRD for stringent action.

4. Each course should be video recorded and appropriate consent should be obtained from foreign faculty.
5. Institute will ensure that the course coordinator will not violate copyright of anyone knowingly or willingly for the preparation of course material.
6. Institute shall send a course completion report alongwith soft copy of course materials and video recording of the course within 30 days after completion of the course.
7. The account where this fund is kept shall be open to inspection by the sanctioning authority and audit, both by Comptroller and Audit General of India under provision CAG (DPC) act 1971 and internal audit by the Principal Accounts Office of MHRD, Dept of Higher education, whenever the grantee is called upon to do so.
8. Institute will advise the Course Coordinator to finalise and upload the course brochure to GIAN portal (www.gian.iitkgp.ac.in) as early as possible for wide publicity. **The sanctioned fund will be released after the submission of utilization certificates for the fund received for all previously completed courses.**

Kindly send us an acceptance of the same along with duly signed pre-stamp receipt and Bank details, for transfer of funds through RTGS.


National Coordinator
Global Initiative for Academic Networks (GIAN)

Copy to :-

1. Local Coordinator - GIAN, Tripura University
2. Shri Praveen Kumar, IAS, JS, MHRD
3. Ms. Darshana Momaya Dabral, JS & FA, MHRD
4. Registrar, IIT Kharagpur – for release of funds
5. Office copy, GIAN, IIT Kharagpur

ABOUT TRIPURA UNIVERSITY



Taking into consideration the long cherished demands of the students community, 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 the first University in the state came into being on 2nd October 1987, the birth day of Gandhiji, the 'Father of the Nation'. The dreams of thousands of people were at last fulfilled. Later Tripura University has been converted to a Central University w.e.f 2nd July, 2007 under the Tripura University Act, 2006 as enacted by the Parliament. A total number of 42 courses are run under the University, which includes Certificate Courses, Under Graduate, Post Graduate Diploma and Post Graduate Studies. In addition to these, Ph.D programmes are also offered in 33 subjects. The number of affiliated Colleges at present is 46 among which there are 23 General Degree Colleges, 17 Professional Colleges, 4 Paramedical and Nursing Colleges and 2 Medical Colleges.

ABOUT DEPARTMENT OF FORESTRY AND BIODIVERSITY



The Department came into being in Sept., 2011 under the Faculty of Science to emerge as a Centre of Excellence in Forestry and Biodiversity Conservation and Management. It strives to deal with solution based forestry research in tune with the emerging issues in the sector. The Department also assists in the transfer of technology to the users viz, farmers/orchardists, state forest departments and different voluntary organizations. The Department is striving to create recognition in the field of Tropical Forestry and Biodiversity research at international arena with special emphasis on South East Asia.

ABOUT THE CITY

Agartala, the capital city of Tripura is located in the north eastern region of the country. It covers 10,491



km² and is bordered by Bangladesh to the north, south and west, and the Indian states of Assam and Mizoram to the east. Tripura has a picturesque surrounding covered with hills and dales, sprawling green valleys and hilly brooks. Tripura is adorned with a large number of attractive tourist sites. The popular Tripura attractions are Kamalasagar Lake, Dumboor Lake, Ujjayanta Palace, Neermahal, Kunjaban Palace, Tripura Government Museum, Jampui Hill, Dumboor Lake etc. The famous Tripureswari Kali Temple is situated in Udairpur city and is about 60 km away from the capital city. The weather condition of Agartala city is moderate with temperature between 21°C to 36°C during summer season and between 8°C to 25°C in winter. The northeastern state of Tripura is famous all over the world for its rich cultural heritage, beautiful palaces, wildlife sanctuaries, temples, museums. The city has a number of interesting tourist attractions to visit and enjoy.

HOW TO REACH TRIPURA UNIVERSITY?

University is situated in West Tripura District about 9 km away from the Agartala town and 20 km away from Agartala Airport (Singerbill Airport).

Agartala is well connected with Gauhati, Silchar and Shillong by road (both Non-AC and AC buses). A daily bus service from Kolkata to Agartala is also available for which a transit visa is needed through Bangladesh. Agartala is also directly connected with Gauhati, Kolkata and other North-eastern cities and with other metros via Gauhati or Kolkata by air route. For Air travel, an advance booking (about 3 months ago from the date of journey) is highly suggested to avail the cheapest air-fare. Agartala also is connected with Lumding and Gauhati by railway.



GIAN COURSE

ON

Toward an Integrated, Transdisciplinary Science of Humans-in-Nature: Social-economical-ecological Systems (SEs) and Ecosystem services, assessment and perspectives for sustainable planning and management of SEs

19th – 30th November, 2018



TRIPURA UNIVERSITY
(A CENTRAL UNIVERSITY)



Venue:

Department of Forestry and Biodiversity,
Tripura University, Suryamaninagar,
Agartala-799 022, Tripura, INDIA

Contact Details:

Dr Thiru Selvan
Department of Forestry and Biodiversity,
Tripura University (A Central University)
Suryamaninagar, Agartala– 799 022

Tripura, INDIA

Tel: +91 3812379462 (O)

+91 8974236218 (M)

Email: tselvan@tripurauniv.in

Overview

In today's practical problem solving in sustainable planning and management toward an Integrated Transdisciplinary Science of Humans-in-Nature requires the integration of the vision of how the world responds? How we the human beings would see the world in future? Tools and analysis appropriate to the vision, as a multiscale approach for transferring knowledge across scales, are needed to understand, model, and manage Complex, Adaptive, Hierarchical Systems (CAHSs). The social-economical-ecological system (SES) theory emerged from the close interaction between society and both natural and human-managed systems; human societies, with their cultural heritage, represent the driving forces of biosphere and SESs. For this reason a transdisciplinary approach is needed to assess the limits of predictability of complex, adaptive, living systems, through a "pragmatic modeling" philosophy of science. This will allow new, adaptive approaches to environmental management and better links with social decision-making. Envisioning and goal setting should be recognized as critical parts of both science and social decision-making. We need to create a shared vision of a desirable and sustainable future, and implement adaptive management systems at multiple scales in order to get us there.

This course is organized in two modules that should be taken together: Module A - Integrated Hard Problem Science (HPS) would include the challenges of sustainable management; Complex, Adaptive, Hierarchical Systems (CAHSs) with Capitals of SESs. Module B - How HPS can inform planning and management for sustainable SESs which will include the Resilience and adaptive capacity of SES; Ecosystem Services (ESs), and their global assessment according to Millennium Ecosystem Assessment (MEA), multiscale approach to understanding, modeling, and managing complex, adaptive, living systems, and methods for transferring knowledge across scales.

Course detail

Day 1- The challenge: Sustainable management Examples-Case Studies

Day 2- Complex, adaptive, hierarchical systems (CAHS); Case Studies- Hands on Training in the real world: social-economical-ecological systems (SESs)

Day 3- Resilience and adaptive capacity of SES Examples-Case Studies

Day 4- Ecosystem services (ESs), global assessment according to Millennium Ecosystem Assessment (MEA); Examples-Case Studies

Day 5- Capitals of SESs (social, natural, human, constructed); The DPSIR scheme; Examples

Day 6- The DPSIR scheme, disturbance, fragility, Examples-Case Studies

Day 7- The spatial dimension of systems: patterns and processes Sustainable planning and ecological networks; Examples-Case Studies

Day 8- Welfare indices (GDP, GPI); Examples-Case Studies-Comparing welfare indices

Day 9- Problem solving in SES planning and management; ESA (environmental strategic assessment); Examples-Case Studies

Day 10- Conclusions: Problem solving in SES planning and management; Toward an Integrated Hard Problem Science (HPS); Examination on Module A and B

Teaching Faculty



Prof. Giovanni Zurlini is full professor of ecology at the University of Salento, Italy. He has published more than 200 research papers in scientific peer-reviewed journals. He has also many issued or pending patents worldwide. He served as Director of Center for Marine Studies at

ENEA (Italian National Agency for New Technologies, Energy and Economic Sustainable Development). He served as senior researcher at the CNR (Italian National Research Council). He got his Ph. D. in the Netherlands, at the University of Utrecht in 1980. He has received many awards, such as, from the Chile government, from Russian universities. He was elected vice-president of the IALE (International Association of Landscape Ecology). He has been invited for lecturing by many Institutions and Universities from all over the world such as, University of Kiel, Bohn (Germany), Utrecht, Wageningen (NL), EPA at Las Vegas and Durham (USA), China (Beijing), the Academy of Science, London School of Economics (UK), California University River Side, US Geological Survey, US Forest Service, CSIRO Canberra (Australia). He is member and founder of the worldwide Ecosystem Service Partnership (ESP - <http://es-partnership.org>). He is associate editor-in-chief of Ecological Indicators (Elsevier) and coordinating editor of Landscape Ecology (Springer). He is responsible of many projects on

sustainability and ecosystem services at the national and European level.

Course Coordinator:



Dr. Thiru Selvan is an Assistant Professor in the Department of Forestry and Biodiversity at Tripura University (A Central University), Agartala, Tripura. Dr Selvan, trained in forestry, has been working and researching in diverse areas of

natural resource management with focus to ecology and environment for more than 15 years and published more than 30 peer reviewed papers. He has been a field forester and trainer. A merit awardee during his Ph. D., Dr Selvan has also been awarded the IASc-INSa-NASI Summer Research Fellowship. He is a member of many renowned organizations. Currently, he is implementing projects with support from NMHS on social and ecological systems.

Who can attend?

- *Executives, Indian Forest Service Officers, State Forest Service Officers, Engineers,
- *Faculties, Researchers/scientists from academic, technical and research institutions
- *Representatives of Non-governmental organizations and civil society
- *Scholars and Students of relevant discipline.

Registration Fees

The participation fees for the course is as follows:

Participants from abroad :

Non-SAARC - US \$500 SAARC - US \$300

Industry/NGO's : Rs 5000/-

Academic/Research Institutions:

Faculty/Scientists : Rs 4000/-

Scholars and Students: Rs 2000/-

The above fees include all instructional materials, computer use for tutorials and assignments, laboratory usage charges including working lunch.

The individual course participants will have to borne themselves the expenses for their food, transport and accommodation.

How to register?

Step 1: One time Registration: Registration for GIAN courses is not free because of constraint in the maximum number of participants allowed to register for a course. In order to register for any course, candidate will have to first get them registered to GIAN Portal of IIT Kharagpur using the following steps:

Create login and password at <http://www.gian.iitkgp.ac.in/GREGN/index> Login and complete the registration form- Select courses-Confirm your application and payment information-Pay **Rs. 500/-** (non-refundable) through online payment gateway- Download and print “**pdf file**” of your enrolment application form for your personal records and for further communications.

Shortlisted candidates will be notified by E-mail.

Step 2: Institute Registration: Deposit the requisite course fee online or through bank in favour of SBI, Tripura University Campus Br. A/C No: 30371209938, IFSC Code: SBIN0010495, MICR Code:799002524. Keep the copy of payment info (transaction # & date) handy. Scan copy of the filled in “**Registration Form**”, course fee payment details and application form generated in **Step 1**. Send via email to the Course Coordinator on or before 26th October 2018.

P.S. Registering on the GIAN portal does not guarantee participation in the course. Enrolment in the course is subject to institute registration.

A limited number of rooms may be available in Tripura University Guest House on a first-come-first serve basis and at a very reasonable charge on sharing basis (two persons).

Number of participants for the course is limited to 50.

Last date for registration is 26th October, 2018.

In case of any queries, you send an email to the course coordinator.

REGISTRATION CUM ACCOMODATION REQUEST FORM

(To reach electronically by 26th October, 2018)

GIAN COURSE ON

TOWARD AN INTEGRATED, TRANSDISCIPLINARY SCIENCE OF HUMANS-IN-NATURE: SOCIAL-ECONOMICAL-ECOLOGICAL SYSTEMS (SESS) AND ECOSYSTEM SERVICES, ASSESSMENT AND PERSPECTIVES FOR SUSTAINABLE PLANNING AND MANAGEMENT OF SESS

19th November 2018 to 30th November 2018

**Department of Forestry and Biodiversity, Tripura University,
Suryamaninagar 799022, Agartala, Tripura, INDIA**

Name (Block Letters):.....

M/F:.....

Designation/Professional Title:

Organization:.....

Address:.....

.....

.....

Tel.: Mobile:

Email:

Application ID (Generated during one time registration at GIAN portal of IIT Kgp) :

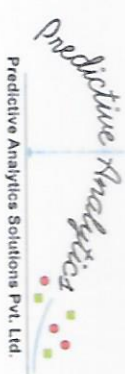
Accommodation Required (Yes/No) :

Duration (in dd/mm/yy):

The registration fee of Rs.has been paid online vide transaction ID No. bank..... Dated..... in favour of “Tripura University”.

Date:

Signature of the participant



Electronics & ICT Academy
Supported by Ministry of Electronics and Information Technology (MeitY), Govt. of India
Indian Institute of Technology Guwahati

Certificate of Coordination

Presented to

Mr./Ms./Dr. *Sanmat Hore*, *Assistant Professor*
of *Department of Statistics*, *Tripura University*
for successfully coordinating the Faculty Development Programme titled “Data Analytics using R Programming” organised by E&ICT Academy IIT Guwahati held from 31 July – 04 August, 2018 in association with Tripura University and support from Predictive Analytics Solutions Pvt. Ltd.

Ratnajit Bhattacharjee

Prof. Ratnajit Bhattacharjee
PI, E&ICT Academy
Indian Institute of Technology
Guwahati

Gaurav Trivedi

Dr. Gaurav Trivedi
Co-PI, E&ICT Academy
Indian Institute of Technology
Guwahati

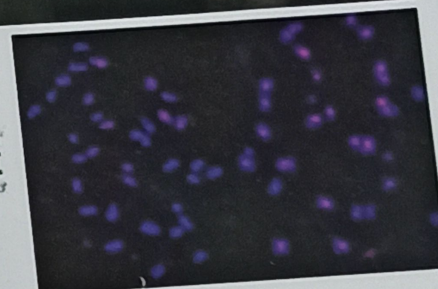
Laboratory Manual of

Training programme on
“CYTOMOLECULAR AND TISSUE CULTURE TECHNIQUES OF BANANA”
 under DBT –NER Banana Biodiversity project (Group-I)
 15th and 16th March, 2019



Under
DEPARTMENT OF BIOTECHNOLOGY (DBT)
MINISTRY OF SCIENCE & TECHNOLOGY
GOVERNMENT OF INDIA

Project on
**“Genome Characterization of Banana/Plantain Genetic Resources of North-eastern
 Region and their Utilization in Multicentre Planning for Commercial Improvement”**



Organized by

Prof. R. K. Sinha, Department of Botany, Tripura University, Tripura
 in collaboration with
Prof. A. B. Das, Department of Botany, Utkal University &
Dr. S. N. Jena, Department of Genetics and Plant Molecular Biology, CSIR-NBRI

7 days Workshop on “Protein, Isolation, Separation, Purification and Characterization”

25th February to 3rd March 2019

**Organized by Advanced State
Biotech Hub, Tripura University**

Workshop on Innovative approach for pollution minimization during natural fiber processing

<https://www.facebook.com/100003953603487/videos/pcb.1638288042979633/1638283786313392/>



Workshop on Brewing Bio-entrepreneurship in Northeast India

<https://www.facebook.com/photo?fbid=1663199520488485&set=pcb.1663199983821772>





ONE DAY SEMINAR ON

“CUTTING EDGE TECHNOLOGIES IN CHROMATOGRAPHY AND MASS SPECTROMETRY”

Organized by
DEPARTMENT OF PHARMACY
in association with

SPINCO BIOTECH PVT LTD & SHIMADZU INDIA PVT LTD

Speaker

Mr. N. Srinivas
Manager & Head, Customer Support and application-
East & North East

Mr. Debajyoti Sen
Manager & Head, East & North East sales operations



12-03-2020



2 PM - 5 PM



Seminar Hall,
Dept. of Pharmacy



NATIONAL WORKSHOP on **RIVER AND WATER MANAGEMENT** FOR **SUSTAINABLE DEVELOPMENT** WITH **POLICY PERSPECTIVES**



Organised By
TRIPURA UNIVERSITY
(A CENTRAL UNIVERSITY)



In Collaboration With
AVIRAL GANGA MISSION,
JALBIRADARI



Sponsored By
Government of Tripura



Tripura University
Suryamaninagar, Agartala



JULY 3rd & 4th, 2019

OVERVIEW

We are living in an important time in the history of this planet, a juncture that will define what history books of the future will depict. The story, about our relationship to Mother Bhumi (Sanskrit for Mother Earth), will either describe a phenomenal transformation or a tragically wasted opportunity. Climate change is no longer an abstract concept, it is a harsh reality. India as a nation has undergone many transformations in the past three decades – from a struggling agrarian economy into a booming technological power house. In the race to catch up with other advanced economies, India has been repeating the same mistakes as others, compromising its ecological health and biodiversity for economic prosperity. But now, the impact of climate change is hitting it hard. More than 60% of the population is dependent on climate sensitive sectors. Water scarcity is hard hitting all places as ground water is become over draft and rivers are drying across India. This global water crisis is one we cannot escape.

Hindu sacred texts, the Vedas, explain how divinity manifests in the form of the creation, and how every element in creation, the Pancha Maha Bhutas – Bhumi (earth), Gagan (sky), Vayu (air), Agni (fire) and Neer (water) are held sacrosanct. For millennia the Indian society followed this eco-centric philosophy and had love, affection, respect and passion for the elements. It is quite common to see rivers, mountains, forests, and even plants and animals considered holy in India. Traditional customs, practices, and lifestyle have been centered on such eco-centric values. At its very heart, respectfully of nature, we can create a meaningful development model.

These traditional values are slowly diminishing. As Albert Einstein once said, “We cannot solve our problems with the same level of thinking that created them”. So it is time to elevate our level of thinking by fostering these eco-centric perspectives for finding solutions to climate change and creating models of sustainable development. We as human beings must think and adopt the lifestyle where these Divine elements and their sustenance is not interfered. We must adopt the best practices to accomplish our desires with good actions, and embed them into our very culture and lifestyle. We must pledge that we do not interfere with the divine and move on this Shrusti (creation) with harmony. Thus, understanding the geographic nature and river system eco-friendly, policies need to be formulated along with mass awareness campaigns for judicious use of water.

VISION:

1. This workshop shall be centred around creating a sustainable development model in line with the river Policy perspectives;
2. The developmental model adopted worldwide today, with the use of technology for exploiting nature, has resulted in climate change. This model appears to be unacceptable unless the impacts are mitigated by adoption of natural processes. With expert guidance of Dr Rajendra Singh, we shall assist to develop a development model by adopting all the required technologies which are in line with the great Indian heritage for development trends; and
3. The outreach of the program shall empower the North-East region to gradually adopt development model.

THEME OF THE WORKSHOP

1. Water, Water conservation and Rivers Rejuvenation
2. Waste Water treatment, Recycle, Reuse
3. Solid Waste Management
4. Natural Farming
5. Perspective for efficient River Policies for Sustainable Development

RESOURCE PERSONS

With a view to maximise the practical outcome of the workshop, there will be Expert presentations and panel discussions, instead of the conventional lecture format. Dr Rajendra Singh along with his team members and local resource persons from the Departments of Forestry and Biodiversity, Geography and Disaster Management, Rural Studies and Sociology of Tripura University and Government of Tripura shall deliberate upon the themes of the workshop.

EXPECTED AUDIENCE:

University faculties, Research scholars and students of all North-Eastern States of India, Government authorities, Planning board members, individual from NGO and anyone who wish to join in committed way.

EXPECTED OUTCOME:

With the availability of experts like Dr Rajendra Singh (Magsaysay Awardee & Stockholm Water Prize Winner) and his team who have expertise in the field of water conservation, it is expected to help in setting right strategies to combat water crisis issues in Tripura and neighbouring regions. This workshop would also be immensely helpful in carrying out joint efforts for revival of rivers and create effective water management and conservation mechanisms in Tripura and its seven sisters.

WHO CAN ATTEND?

- Executives and Officials from the Government Departments working on the area
- Faculties and Scientists from reputed academic, technical and research institutions
- Representatives of Non-governmental organizations and civil society
- Scholars and PG Students connected to the theme areas
- Other stakeholders

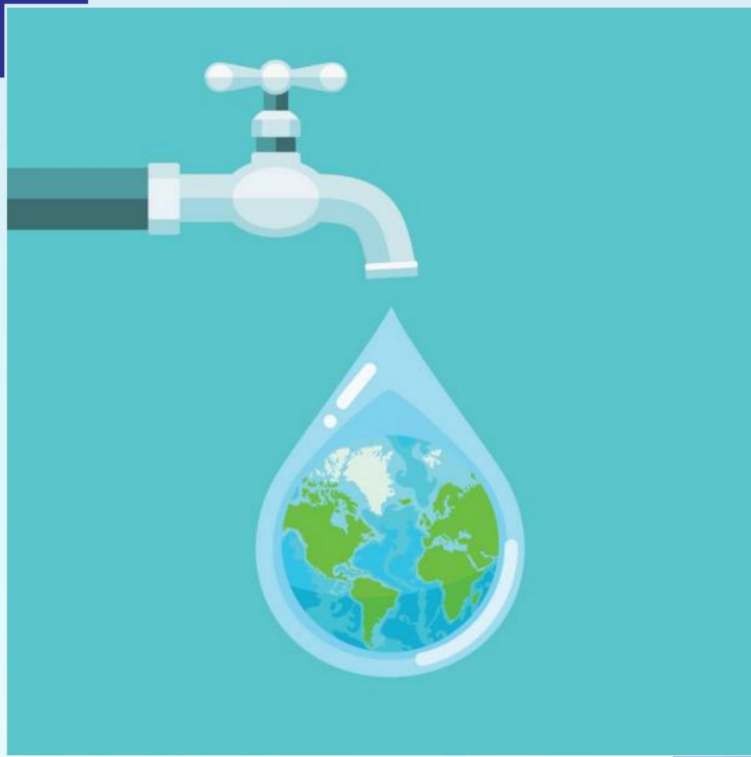
ABOUT TRIPURA UNIVERSITY



The state of Tripura is geographically isolated from the rest of India. Due to lack of infrastructure earlier it was difficult for the students of Tripura to pursue higher studies in various fields within the state. The State Government took the initiative to pass the Tripura University Act in the Assembly in 1987 and the first University in the state came into being on 2nd October 1987. The objective of the University is not only be “to disseminate and advance knowledge by providing instructional and research facilities” in the state in areas of

contemporary relevance to the society and the country but to make special provisions for studies in tribal life and culture and to introduce vocational subjects with a view to provide employment opportunities to the students. A total number of 42 courses run under the University, which includes Certificate Courses, Under Graduate, Post Graduate Diploma and Post Graduate Studies. In addition to these, Ph.D programmes are also offered in 33 subjects. The number of affiliated Colleges at present is 46 among which there are 23 General Degree Colleges, 17 Professional Colleges, 4 Paramedical and Nursing Colleges and 2 Medical Colleges.

ABOUT AVIRAL GANGA MISSION, JAL BIRADARI



Tarun Bharat Sangh's efforts of organizing the villages and local communities across the country have resulted in the formulation of the Rashtriya Jal Biradari (National Water Community). Rashtriya Jal Biradari (RJB) is a network of various like-minded individuals, farmers groups, social groups, VO's, NGO's, CBO's, Research Institutions, social scientist, water experts basically all those who are concerned and have deep interest in the issue related to water.

RJB was formally inceptioned in the National Water Convention held in April 2001 in Tarun Bharat Sangh at Nimi village (near Jaipur). More than 7,000 water warriors from all over the country participated in the convention. Then started the water movement regarding

water rights and to establish communities right over water. The responsibility of leading the movement was given to Rajendra Singh (chairman RJB). Dr Rajendra Singh has been conferred with Magsaysay Awardee & Stockholm Water Prize. He is popularly known as *Jalpurush* water man of India.

RJB has its units in each state of the country. It is working on national level issues like influencing Central & State governments for making pro-people water policies, decentralized community driven water management, advocacy against privatization of natural resources, creating awareness among general mass for water conservation. At present RJB focusing on "Save the Rivers Mission". Recently, due to persistent efforts of RJB, River Ganga has been recognized as "National River" by Government of India. Moving ahead, RJB is trying to bring stakeholder of polity & community on common platform for dialogue to save Rivers from pollution, excess exploitation and encroachment.

Aviral Ganga Mission is inspired by Dr GD Agarwal fasting unto death sacrifice for revival of Maa Ganga. The mission is being lead for different regions by Convenor for the region under the overall leadership of Jalpurush Dr Rajendra Singh ji. The aim is to stop further huge dam constructions and promote check dam concept and make initiatives to reduce inter and intra state conflicts for water distribution by promoting water literacy programmes and mobilize all stakeholders for direct involvement. Finding solutions to water crisis by integrated approach. The main objective is to do Ganga Sadbhavna yatra from Kashmir to Kanyakumari to create awareness among public, conduct river literacy programme, and work with water authorities by providing guidelines to create apt policies and restructure archival ones. This Yatra is done in first phase from Gomukh to Ganga Sagar. Jalnayak Dr Snehal Donde, Principal in Degree college associated with Mumbai University is leading the Ganga Mission in West Bengal and Tripura.



ABOUT THE CITY

Agartala, the capital city of Tripura is located in the north eastern region of the country. It covers 10,491 km² and is bordered by Bangladesh to the north, south, and west, and the Indian states of Assam and Mizoram to the east. Tripura has a picturesque surrounding covered with hills and dales, sprawling green valleys and hilly brooks. The popular Tripura attractions are Kamalasagar Lake, Dumboor Lake, Ujjayanta Palace, Neermahal, Kunjaban Palace, Tripura Government Museum, Jampui Hill, Dumboor Lake etc. The famous Tripureswari Kali Temple is situated in Udaipur city and is about 60 km away from the capital city. The weather condition of Agartala city is moderate with temperature between 21°C to 36°C during summer season and between 8°C to 25°C in winter. Tripura is adorned with a large number of attractive tourist sites. The northeastern state of Tripura is famous all over the world for its rich cultural heritage, beautiful palaces, wildlife sanctuaries, temples, museums. The city has a number of interesting tourist attractions to visit and enjoy.



HOW TO REGISTER?

Registration for workshop is free. The candidates have to register by filling the registration form duly filled in along with their signature and send the softcopy of the same @ paramachakma@tripurauniv.in

A limited number of rooms may be available in Tripura University Guest House on a first-come-first serve basis.

Number of participants for the workshop is limited to 50.

Last date for registration is 1st July, 2019.

ORGANISING COMMITTEE

Patron

Prof. V L Dharurkar,

Hon'ble Vice Chancellor,
Tripura University

Convener

Dr. Rajeev Dubey, HOD (I/C)

Dept. of Sociology, Tripura University
Suryamaninagar-799022, Tripura West, Tripura, INDIA.
Tel: (M) +91-8974040172.
Email: rajeevdubey@tripurauniv.in

Co-convener

Dr Snehal Donde, Principal,

Shree Halari Visa Oswal College of Commerce,
Bhiwandi, Maharashtra
Tel: (M) 9819088651
Email: drsnehaldonde@gmail.com

Members of Organising Committee:

Prof. Satyadeo Poddar, HOD Dept. of History, T.U.
Prof. Ashish Nath, HOD, Dept. of Economics, TU
Dr. Y. V. Krishnaiah, HOD, Dept. of Geography, T.U.
Dr. Sabyasachi Dasgupta, HOD, Dept. of Forestry & Biodiversity, T.U.
Dr. Thiru Selvan, Asstt. Prof. Dept. of Forestry & Biodiversity, T.U.
Dr. Sourabh Deb, Asstt. Prof. Dept. of Forestry & Biodiversity, T.U.
Dr. Arobindo Mahato, HOD (I/C) Dept. of Rural Studies, T.U.
Dr. Samrat Goswami, Asstt. Prof. Dept. of Rural Studies, T.U.

REGISTRATION FORM

(To reach electronically by 01st July, 2019)

@ paramachakma@tripurauniv.in

WORKSHOP

on

“RIVER AND WATER MANAGEMENT FOR SUSTAINABLE DEVELOPMENT” WITH POLICY PERSPECTIVES

3rd July to 4th July 2019

Name (Block Letters) : _____

M/F : _____

Designation/Professional Title: _____

Organization : _____

Address : _____

Tel.: _____ Mobile: _____

Email: _____

Declaration:

I hereby certify that the details mentioned above are true to the best of my knowledge and belief.

Date:

Signature of the participant



**NATIONAL WORKSHOP on
RIVER AND WATER MANAGEMENT FOR
SUSTAINABLE DEVELOPMENT WITH
POLICY PERSPECTIVES**

Organised By

TRIPURA UNIVERSITY

(A Central University)

In Collaboration With

VIRAL GANGA MISSION, JALBIRADARI

Sponsored By

Government of Tripura



Venue : Tripura University

Suryamaninagar, Agartala

Date :

JULY 3rd & 4th, 2019



**NATIONAL WORKSHOP on
RIVER AND WATER MANAGEMENT FOR
SUSTAINABLE DEVELOPMENT WITH
POLICY PERSPECTIVES**

Organised By

TRIPURA UNIVERSITY

(A Central University)

In Collaboration With

WATERSHED Ganga Mission, JALBIRADARI

Sponsored By

Government of Tripura



Venue : Tripura University

Suryamaninagar, Agartala

Date :

JULY 3rd & 4th, 2019





**NATIONAL WORKSHOP
ON
"RIVER AND WATER MANAGEMENT FOR SUSTAINABLE DEVELOPMENT
WITH POLICY PERSPECTIVES"**

3-4 JULY 2019

Organized by
TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY), SURYAMANINAGAR -799022

In collaboration with
AVIRAL GANGA MISSION, JALBIRADARI

Sponsored by
GOVERNMENT OF TRIPURA

Programme Schedule

Date: 3rd July, 2019 (Wednesday)

Inaugural Session (11:00am – 11:55am)

Time	Venue: Academic Building XI (HALL-2)
11.00 – 11.05	National Anthem
11.05 – 11.08	Felicitation of the Distinguish Guests
11.08 – 11.10	Lighting of Lamp
11.10 – 11.15	Welcome Song
11.15-- 11.20	Welcome Address by Prof. Satyadeo Poddar, Organising Committee Member & HOD, Department of History, Tripura University
11.20 – 11.25	Introduction to Aviral Ganga Mission, Jalbiradari by Dr Snehal Donde, Principal, Shree Halari Visa Oswal College of Commerce, Bhiwandi, Maharashtra
11.25- 11.30	Address by Dr Rajendra Singh on River Policy (Magsaysay Awardee & Stockholm Water Prize)
11.30- 11.35	Address by Prof. V.L. Dharurkar, Hon'ble Vice-Chancellor, Tripura University
11.35- 11.45	Address by Chief Guest- Prof. Kaptan Singh Solanki, Hon'ble Governor of Tripura & Chief Rector of Tripura University
11.45-11:50	Vote of thanks by Dr. Rajeev Dubey, HOD (I/C) Dept. of Sociology, Tripura University & Convener of the National Workshop
11:50-11:55	National Anthem

KEY NOTE ADDRESS

Time	Venue: Academic Building XI (HALL-2)
12.10- 12.50 pm	Key note address by Dr Rajendra Singh, Jalpurush and President, Jal Biradari, Jaipur, Rajasthan (Magsaysay Awardee & Stockholm Water Prize)
12.50-1.00 pm	Discussion





WASHROOM

Dr. Sushal Dorale

Shri. A. Rastogi

Shri. Kishor Dharja

Dr. Nibedita Das (Puri)



NATIONAL WORKSHOP
RIVER AND WATER MANAGEMENT FOR
SUSTAINABLE DEVELOPMENT WITH
POLICY PERSPECTIVES

Organized By
TRIPURA UNIVERSITY
In Collaboration With
CENTRAL BOARD OF SECONDARY EDUCATION, ALBHADRA
Sponsored By
Government of Tripura

Tripura University
Sunderganj, Agartala

Report on

Awareness programme on

World Wetlands Day, 2020 under the theme “Wetland and Biodiversity” and cleanup activity in and around Rudrasagar Lake



Organized by

**Rudrasagar Udbastu Fisherman Samaba Samiti Limited, Rajghat,
Melaghar, Tripura**

**Department of Forestry & Biodiversity, Tripura University,
Suryamaninagar, Agartala**

Tripura State Pollution Control Board, Agartala, Tripura

Tripura, 2nd February, 2020

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(b) List of participants, Faculty and Dignitaries

Executive Summary

Department of Forestry & Biodiversity, Tripura University, Suryamaninagar, Agartala in collaboration with Rudrasagar Udbastu Fisherman Samaba Samiti Limited, Rajghat, Melaghar, Tripura and Tripura State Pollution Control Board, Agartala has organised a one day awareness campaign on Wetlands Day i.e. 2nd February, 2020 under the theme “Wetlands and Biodiversity” and cleanup activities in Rudrasagar lake. The programme consisted of 50 people including the guest. The occasion began with the auspicious lamp lighting ceremony. The inauguration programme was followed by a speech by Shri Bishu Karmakar, member Secretary, Tripura State Pollution Control Board, Gorkhabasti, Tripura. The second speaker was Shri Prabitra Kr. Das, Vice President, Rudrasagar Udbastu Fisherman Samabay Samity followed by Melaghar by Shri Parameshwar Das, General Secretary, Rudrasagar Udbastu Fisherman Samabay Samity, Melaghar. Then, Dr. Sourabh Deb, Asst. Prof. Dept. of Forestry & Biodiversity, Tripura University stated about the importance of celebrating the Wetlands day. The Keynote speech was given by Dr. Sabyasachi Dasgupta, Head & Associate Prof, Dept. of Forestry & Biodiversity, Tripura University followed by Prof. Basant K. Agarwala, Chairman, Tripura State Pollution Control Board, Gorkhabasti, Tripura. Shri Subhash Ch. Das, MLA, Tripura Legislative Assembly and Shri Rabindra Ch. Das, Vice President, Rudrasagar Udbastu Fisherman Samabay Samity, Melaghar, was the last speaker of the awareness programme. The programme also consists of setting of dustbins, instruction board and notice board which was followed by light refreshment. The participants also took up

cleaning activities in and around the areas of the Rudrasagar lake. They collected around 50 kg waste during the activities.

Introduction

Rudrasagar Lake has an area of 240 ha and situated in the 23°29'N 090°01'E. It is a lowland sedimentation reservoir in the northeast hills and fed by three perennial streams discharging to the river Gomti. The lake is abundant in commercially important freshwater fishes like *Botia* spp, *Notopterus Chitala*, *Mystus* spp., *Ompok pabda*, *Labeo bata*, and freshwater scampi, with annual production of 26 metric-tons, and an ideal habitat for IUCN Redlisted Three-striped Roof Turtle *Kachuga dhongka*. Main threats are increasing silt loads due to deforestation, expansion of agricultural land and intensive farming, and land conversion for population pressure (<https://rsis.ramsar.org/ris/1572>). The Government of India's Ministry of Environment and Forest has identified Rudrasagar as one of the wetlands of National Importance for conservation and sustainable use based on its bio-diversity and socio economic importance. Secretary General, convention on wetlands, Ramsar site has declared it as wetlands of international importance and has been included in the list of wetlands of International Importance ([https://en.wikipedia.org/wiki/Rudrasagar Lake](https://en.wikipedia.org/wiki/Rudrasagar_Lake)).

The programme started with the auspicious lamp lighting ceremony and felicitation of the dignitaries present in the dais. The programme was attended by around 50 people including distinguished guests from various fields. The inauguration programme was followed by a speech by Shri Bishu Karmakar, member Secretary, Tripura State Pollution Control Board, Gorkhabasti, Tripura. He mentioned in his speech that we all need to take appropriate role in safeguarding Rudrasagar. The second speaker was Shri Purek Kumar Das, co-chair of the Rudrasagar Refugee Fisheries Cooperative Association, who highlighted how they have been seeing the appearance of the Rudrasagar lake for the past five years, referring to the beauty of the Makhna and Shapala flowers in the Rudrasagar, playing the Honey and Pudda. He also expressed his concern that the natural form of the lake is disappearing now.

Dr Saurabh Dev, Assistant Professor in the Department of Forestry and Biodiversity of Tripura University stated that the wetlands are a rich example of the environment and biodiversity and the theme for the year was "Wetlands and Biodiversity". Realizing the importance of wetlands, on this day in the city of Ramsar, Iran, environmentalists signed an international agreement in which a special focus was placed on proper use and conservation of wetlands. Besides, he said that till now there have been three species of plants in the

waters of Rudrasagar, of which 3 are rare. This reservoir consists of various birds that roam around the water during the day and spend the night in the nearby trees of the wetland. Singara, Makhna, Shapala and Kachuripana are more abundant in this area with snails, oysters and crabs also present. Various handmade objects were being made by the Kachurepana of Rudrasagar for which 21 people have been trained. They also prepared for re training to make the work even better and for economical improvement. He also emphasized on the work of preparing fish food from hydraulic plants in the wetlands. He mentioned about the two special studies going on in Rudrasagar undertaken under him like “Water Quality and Ecosystem Services of Rudrasagar Lake” and the “Restoration of Ecosystem Services by Community Development in Rudrasagar Lake of Tripura”. Finally, he said that wetlands are an integral part of the environment and we should protect the birds, fisheries and plants as well as improve tourism in the area.

The next speech was given by Dr Sabyasachi Dasgupta, Associate Professor, Department of Forestry and Biodiversity at Tripura University. He gave special attention to the depth of the water in Rudrasagar. He suggested that the problem of siltation can be overcome by planting trees in the area where soil erosion occurs. This can also help in keeping the water level upright. Plants should be planted along the dams of Khosrota River to protect the water bodies.

The next speaker was Professor Basant Kumar Agarwal, Chairman of the Tripura State Pollution Control Board. He recalled the first time he visited Rudrasagar in 1981 where he could see Rudra as the Rudrasagar - as it was a source of water. He expressed his happiness in seeing the varieties of birds, the emeralds of rice and lettuce and the decoration of the flowers back then which is no more now. He insisted on bringing back the old natural view of the Rudrasagar.

Shri Subhash Chandra Das Mahodai, MLA of Tripura Vidhan Sabha constituency was present as the speaker of the assembly. He spoke of the journey of the Rudrasagar from the past to the present. He mentions that the name of Rudrasagar comes from the Rudra idol and from the glory of Mahadeva which can be compared to the sun god. From that time, in 1947 many people from East Pakistan and present Bangladesh started living near Rudrasagar. The palace of white and black, which is seen in the middle of Rudrasagar, was built by Maharaja Vir Bikram Kishore Manikya Bahadur in 1939. At that time, the livelihoods of the people were scarce over Rudrasagar. After 1950, the district magistrate of West Tripura ordered to

build a fishery cooperative for the people of the region. At that time, the first team was formed with about 300 people which has rose to about 2000 at present. He also said that large quantities of turtles could be found in this river, which is now extinct. At one time the Rudrasagar was home to many birds. He said that the agricultural lands near Rudrasagar were damaged during the monsoon for which a solution is needed. The number of Hydrila plants are increasing as farmers use more fertilizers. Gradually, the quality of water in Rudrasagar is going down. So, he urges all students, teachers and villagers to find ways to keep the wetlands clean, fishermen can sustain well, tourism is improved and crops are not harmed.

Shri Rabindra Chandra Das, president of the Rudrasagar Refugee Fisheries Cooperative Association, addressed the last closing speech. He noted that about 2,000 people, including fishermen and midwives, were working under the supervision of the cooperative. Every year, the Rudrasagar Refugee Fisheries Co-operative Association spent between 9 lakh and 12 lakh rupees, and many people are given lease for 6 months. In the year 2019 they have requested the cooperative to grant a lease of Rs.1 lakh 10 thousand. In the end, he said that special measures need to be taken to increase the depth of the Rudrasagar and prevent soil erosion.

The faculties of Department of Forestry & Biodiversity also distributed dustbins to the RUFSS members to be kept in the different areas of the lakes. The dustbins were categorised into decomposable, plastic and metal waste. A notice board was also installed and unveiled by faculties of Tripura University, MLA, Chairman of TSPCB and members of the RUFSS which says “Littering of solid waste in Rudrasagar lake is strictly prohibited; Use appropriate waste bin; Any person found to violate the above provision may be subjected to a fine of Rs. 500”.



Lamp lighting ceremony



Felicitations of the Guest

	
<p>Speech by Shri Subhash Ch, MLA, TLA</p>	<p>Speech by Dr. Sourabh Deb</p>
	
<p>Distribution of dustbins</p>	<p>Installation of notice board</p>

After light refreshment, the programme was followed by cleaning activities in and around the lake. The participants of the programme cleaned the surrounding areas to make sure the place is cleaned. The cleaning activities were also carried out in the lake by a two team comprising of 5 persons each in two boats. They picked up bottles, plastics, packages of various eatables, etc that were found scattered in the lake. The wastes collected during the cleanup were finally weighed. Around 50 kg of wastes were collected during the cleanup activities. We can see that the people who came to enjoy the scenic beauty of the area make the area dirty by cooking food and throwing the leftovers here and there. There were many dustbins around but the people were seen not using them and instead threw the packages wherever they want. This is the main reason why the surrounding areas are polluted. The authority concerned should take up necessary measures so that the people use the dustbins that have been installed in different corners of the place and play their role in keeping the place clean. Picnic spots inside the lake should be limited and if allowed, it should be ensured the people should not leave any leftovers after they finished. Fines could also be imposed on

those people who litter waste around. This will help to improve the natural conditions of the lake and we will continue to enjoy the scenic beauty of the place as well as gain financial benefits through various livelihood measures and tourism. The main aim of organising such awareness programme was to light a feeling of responsibility among the villagers and tourists. The awareness programme was a success.

		
Dumping of waste inappropriately and picnic inside the spot		
		
		
		
Cleaning activities in and around the lake		



Weighing the waste collected during the cleanup activities



A group photo of all the participants and officials

Annexure A- Tentative Programme

WORLD WETLANDS DAY, 2020

Awareness programme on
“Wetlands and Biodiversity” and cleanup activity

2nd February, 2020

Organized by

Rudrasagar Udbastu Fisherman Samaba Samiti Limited, Rajghat, Melaghar, Tripura
Department of Forestry & Biodiversity, Tripura University, Suryamaninagar, Agartala
Tripura State Pollution Control Board, Agartala, Tripura

Place: Rajghat

Time: 9:00 am-1:00 pm

TENTATIVE PROGRAMME

Events	Time
Inauguration	
Speech by Shri Bishu Karmakar, member Secretary, Tripura State Pollution Control Board, Gorkhabasti, Tripura	9.00 AM
Speech by Shri Prabitra Kr. Das, Vice President, Rudrasagar Udbastu Fisherman Samabay Samity, Melaghar	9.10 AM
Speech by Shri Parameshwar Das, General Secretary, Rudrasagar Udbastu Fisherman Samabay Samity, Melaghar	9.20 AM
Speech by Dr. Sourabh Deb, Asst. Prof. Dept. of Forestry & Biodiversity, Tripura University	9.30 AM

Keynote speech by Dr. Sabyasachi Dasgupta, Head & Associate Prof, Dept. of Forestry & Biodiversity, Tripura University	9.40 AM
Keynote address by Prof. Basant K. Agarwala, Chairman, Tripura State Pollution Control Board, Gorkhabasti, Tripura	9.45 AM
Shri Subhash Chandra Das Mahoday, MLA of Tripura Legislative Assembly	9.50 AM
Speech by Shri Rabindra Ch. Das, Vice President, Rudrasagar Udbastu Fisherman Samabay Samity, Melaghar	9.55 AM
Setting of Dustbins, instruction board and notice board	10.00 AM
Refreshment	10:15 AM
Cleanup activity at Rudrasagar lake	10.30 AM
Lunch	1.00 PM

B. List of Students, Research Scholars and Project Fellow (Tripura University)

Name	Designation
1. Subham Chakma	MSc 4 th Sem
2. Rakesh Chandra Das	MSc 4 th Sem
3. Saumik Deb	MSc 4 th Sem
4. Sushmita Dam	MSc 4 th Sem
5. Bigyan Bikash Reang	MSc 4 th Sem
6. Junoon Chakma	MSc 4 th Sem
7. Arnish Datta	MSc 4 th Sem
8. Suhankey Ghosh	MSc 2 nd Sem
9. Purba Debnath	MSc 2 nd Sem
10. Sayan Roy	MSc 2 nd Sem
11. Tama Basak	MSc 2 nd Sem
12. Reshma Debberma	MSc 2 nd Sem
13. Aparna Jamatia	MSc 2 nd Sem
14. Subhasish Sarkar	MSc 2 nd Sem

15. Kishan Bhowmik	MSc 2 nd Sem
16. Rupak Das	MSc 2 nd Sem
17. Catherine Sumer	MSc 2 nd Sem
18. Jobha Brahma	MSc 2 nd Sem
19. Mihir Kumar Reang	MSc 2 nd Sem
20. Rakhi Das	MSc 4 th Sem
21. Priyanka Saha	MSc 4 th Sem
22. Kankana Nath	MSc 4 th Sem
23. Lumgailu Panmei	Research Scholar
24. Huidrom Babina Devi	Research Scholar
25. Sujit Das	Research Scholar
26. Prabir Barman	JPF
27. Sumit Kumar Das	MSc 4 th Sem
28. Payel Debbarma	MSc 4 th Sem
29. Tanusree Roy	MSc 2 nd Sem
30. Jushmi Debbarma	MSc 4 th Sem
31. Moushumi Chakraborty	MSc 4 th Sem
32. Ratibala Debbarma	MSc 4 th Sem
33. Prasenjit Patari	Research Scholar

List of participants, Faculty and Dignitaries

Name	Designation
1. Shri Dipak Rudrapal	Jr. Scientist, TSPCB
2. Shri Gautam Ghosh	Jr. Scientist, TSPCB
3. Smt. Dipali Barman	
4. Shri Jitendra Das	
5. Shri Tapon Laskar	Sristi Press
6. Shri Samrat Goswami	Asst. Prof, Dept. of Rural Studies, TU
7. Shri Bishu Karmakar	MS, TSPCB
8. Shri Parameshwar Das	Secretary, RUFSS Ltd.
9. Shri Prof. Basant K. Agarwala	Chairman, TSPCB
10. Shri Subhash Ch. Das	MLA, TLA
11. Shri Prabitra Kr. Das	RUFSS Ltd.
12. Shri Rabindra Ch. Das	VP, RUFSS Ltd.
13. Shri Sourabh Deb	Asst. Prof, Dept. of Forestry & Biodiversity, TU
14. Shri Sabyasachi Dasgupta	Associate Prof, Dept. of Forestry & Biodiversity, TU
15. Shri Rabindra Ch Das	RSUSS Ltd.
16. Shri Ananda Das	RSUSS Ltd.
17. Shri Ranjit Das	RSUSS Ltd.



Ministry of Culture
Government of India



Sangeet Natak Akademi, New Delhi

National Academy of Music, Dance and Drama

(An autonomous body of Ministry of Culture, Government of India)

in collaboration with

Department of Music Tripura University, Agartala (Tripura)

Cordially invites you to

Workshop on Hindustani Vocal Music

Significance of Swara, Raga, Tala & Bandish in Hindustani Music

by

Shrimati Ruchira Kedar, Pune (Maharashtra)
(SNA Ustad Bismillah Khan Yuva Awardee)

&

Workshop on Carnatic Instrumental Music - Mridangam

Aesthetical approach of Tala & Jaati in Carnatic Percussion System

by

Vidwan A. Prem Kumar, Chennai (Tamil Nadu)
(Mridanga Chelvam-Kalaimamani)

5 -8 NOVEMBER 2019

(10:00 hrs to 13:00 hrs and 14:30 hrs to 16:30 hrs daily)

Auditorium 2, Academic Building 11, Tripura University, Agartala

Live Webcast:

<https://www.facebook.com/sangeetnatak/>

<https://www.youtube.com/c/sangeetnatak/>

ALL ARE WELCOME

Programme subject to change:
Enq : 8794737173 / 8810613690

REGISTRATION FORM

(Kindly Register Online First:

<https://sites.google.com/view/ettr2019/registration>)

Name:

Designation:

Department:

Organization:

Gender:

Highest Qualification:

Address:

.....

.....

Mobile No:

Amount Paid:

Signature of Participant

ACCOMMODATION

Accommodation can be arranged for external participants with prior information at Tripura University Guest House on Payment basis (Subject to availability).

There will be NO separate TA/DA provided to any participants.

ORGANIZING COMMITTEE

PATRON

Prof. Sangram Sinha,

Hon'ble Vice Chancellor (Actg), Tripura University

ADVISORY COMMITTEE

Prof. Sukanta Banik

Dean (Faculty of Science), TU

Prof. C. B. Majumder

Dean (Faculty of Arts and Commerce), TU

Dr. Swanirbhar Majumder

Head, Dept. of IT, TU

TREASURERS

Sri. Swarup Nandi, Dept. of IT

Sri. Sumanta Saha, Dept. of IT

MEMBERS

Dr. Mrinal Kanti Bhowmik, Dept. of CSE

Dr. Abhishek Majumder, Dept. of CSE

Dr. Champa Nandi, Dept. of EE

Mrs. Sangita Das Biswas, Dept. of EE

Dr. Bishanka Brata Bhowmik, Dept. of ECE

Dr. Anirban Karmakar, Dept. of ECE

Mrs. Gagari Deb, Dept. of EE

Mrs. Tandra Sarkar, Dept. of IT

Mr. Bhaskar Biswas, Dept. of IT

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Sri Jayanta Pal

Assistant Professor, Dept of IT

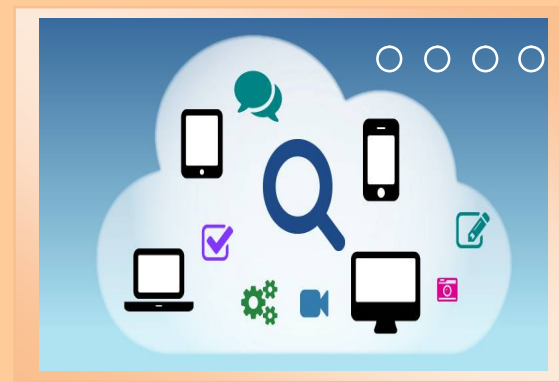
Tripura University, Suryamaninagar

jayantapal@tripurauniv.in

2nd One Week National Workshop

on

Emerging Tools and Technologies in Research



NOVEMBER 5-9, 2019



Organized By

Department of Information Technology

Tripura University, Suryamaninagar

West Tripura - 799022

Web: www.ittu.in

Email: ittuwks@gmail.com

ABOUT TRIPURA UNIVERSITY

The inception of Tripura University can be tracked back to the establishment of UGC recognition Post Graduate Centre of the University of Calcutta at Maharaja BirBikram College in the year 1976. In 1987, Tripura University formally came to being in a State University on October 2nd. In the year 2007 it was converted to Central University. The University is the only University by act of the Parliament in the State of Tripura. It is accredited with 'B' grade by NAAC.

HOW TO REACH

Tripura is well connected with Silchar, Shillong and Guwahati by road. Agartala, the state capital of Tripura, is also directly connected with Guwahati, Kolkata, Delhi, Chennai by air. Railway communication is also available between Kolkata, Guwahati, Bangalore, New Delhi and Agartala. Tripura University is situated about 5 km away from the Agartala rail station and 20km away from Agartala airport.



ABOUT WORKSHOP

Research is the most important part of Academic Institutes. It includes the knowledge of recent trends as well the tools or techniques to be used for Analysis, Simulations and Others. Main objective of this workshop is divert the attention of researcher with different tools and technologies used specially in the field of research.

The participants will be introduced with the emerging tools and technologies related to the field of research. It will be fruitful not only for engineering researcher but the students of all discipline.

The lectures are will be delivered by the renowned Academicians from various Institutes of India.

KEY TOOLS

- ❖ Overleaf (Latex)
- ❖ R-Programming
- ❖ Programming in Python
- ❖ Online Questionnaires and Repository
- ❖ SPSS (Statistical Package for Social Sciences)
- ❖ MOOCs and Online Certification (SWAYAM)

SPEAKERS

Dr. Sabyasachi Dasgupta, Dept. of Forestry & Biodiversity, TU
Dr. Swanirbhar Majumder, Dept. of IT, TU
Dr. Subir Kumar Sen, Dept of Commerce, TU
Dr. Samrat Goswami, Dept of Rural Studies, TU
Dr Alak Roy, Dept. of IT, TU
Sri Sakti Debbarma, Sr. System Analyst, TU
Sri Jayanta Pal, Dept. of IT, TU

WHO CAN ATTEND

Interested Faculty members, Research scholars who are pursuing research or willing to research and PG Students are the targeted audience of the workshop.

Registration will include Registration Kit, Certificate and Tea (**There will be NO lunch**)

Registration Fee: Rs. 200/- (Two hundred) only.

Tripura University

(A Central University)

Suryamaninagar

Tripura (West)-799022

Phone: +91 381 237 4801

Fax: +91 381 237 4802

www.tripurauniv.in



Dr. Alak Roy, Tripura University <alakroy@tripurauniv.in>

Invitation to the Inauguration of 2nd One Week National Workshop on Emerging Tools and Technologies in Research 2019

Jayanta Pal <jayantapal@tripurauniv.in>

Mon, Nov 4, 2019 at 3:24 PM

To: faculties@tripurauniv.in, hod@tripurauniv.in, dean@tripurauniv.in, officers@tripurauniv.in, nonteachingstaffs@tripurauniv.in

Respected Sir /Madam,

It gives us immense pleasure to inform you that the **Department of Information Technology**, Tripura University is organizing **2nd One Week National Workshop on Emerging Tools and Technologies in Research(ETTR-2019) during 5th - 9th Nov 2019 at Auditorium-I of Academic Building-XI.**

You are hereby requested to grace the **Inaugural Session** of the said workshop at **11 A. M. on 5th Nov 2019 by your kind presence.**

Your gracious presence is highly solicited. Workshop Brochure and Schedule are attached herewith.

More Details: www.ittu.in

Regards,
Dr. Alak Roy and Mr. Jayanta Pal,
Assistant Professor and Coordinators
ETTR-2019, Dept. of IT
Tripura University.

2 attachments



Schedule_ETTR_2019.pdf
618K



Brochure_ETTR-19-New.pdf
1255K



Workshop IT, Tripura University <ittuwks@gmail.com>

Schedule ETTR-2019

Workshop IT, Tripura University <ittuwks@gmail.com>

Mon, Nov 4, 2019 at 11:11 AM

To: alakroy@tripurauniv.in, Jayanta Pal <jayantapal@tripurauniv.in>, SwanirbharMajumder@tripurauniv.in, "Workshop IT, Tripura University" <ittuwks@gmail.com>

Bcc: debbarpohot@gmail.com, Rajat Deb <debrajat3@gmail.com>, chmpnandi@gmail.com, swarupnandi@tripurauniv.in, subrata dey <subbiart@gmail.com>, Sumanta Saha <sumanta_saha@tripurauniv.in>, susmitadasre@gmail.com, sdasbiswas@tripurauniv.in, sangitamajumder676@gmail.com, amitdebnath525@gmail.com, bhowmikpuspita22@gmail.com, tandrasarkar85@gmail.com, raktim.acharjee8@gmail.com, deepd475@gmail.com, swararina.lodh123@gmail.com, drmpampidevi@gmail.com, vishalpal555@gmail.com, aijakjamatia@gmail.com, shinglijamatia.sj@gmail.com, chatterjeepayel9596@gmail.com, zaynchakma333@gmail.com, sushanta.4281@gmail.com, raushanmail8@gmail.com, Madhurima Bhattacharya <madhusherlock10894@gmail.com>, "SUBRATA.NIELIT GHOSH" <nielit.subrata@gmail.com>, Ranadhir Debnath <ranadhirdebnath02@gmail.com>, swarnalidhar1234@gmail.com, barnalic30@gmail.com, deysunita378@gmail.com, sagardebbarma4525@gmail.com, lagnanumita@gmail.com, kuhelikaak26@gmail.com, dattatrisha9@gmail.com, smita7814@gmail.com, subhrangshu bhattacharjee <subhrangshubhattacharjee@tripurauniv.in>, mkdphy_tu@yahoo.com, bimal.physics@tripurauniv.in, debnathsimi15@gmail.com, sayantika.physics@tripurauniv.in, debo.phy@gmail.com, sujit.forestry@tripurauniv.in, Dipankar Das <ddipankar75@gmail.com>, pritamchakraborty@tripurauniv.in, bhatt.ani725@gmail.com, Dipankar Das <dipankar748@gmail.com>, debnathbabli25@gmail.com, bjoydas2014@gmail.com, chiranjibchoudhury123@gmail.com, sbm.sanghita@gmail.com, ashish.agartala@gmail.com, ritamsaha@tripurauniv.in, dipankardee@yahoo.co.in, das.sudip700@gmail.com, lalmangaihsangas@gmail.com, ankitkumersen12@gmail.com, mir.sahidul@gmail.com, Jyotirmoy Sharma <mailme.jyotirmoy@gmail.com>, debnath6552@gmail.com, Pranab Ghosh <pra_sitta@rediffmail.com>, acfingo@gmail.com, abhijitroy9619@gmail.com, mamon.0123@gmail.com

Dear Participant

Schedule for ETTR-2019 is attached herewith.

With Regards,

Dr. Alak Roy & Jayanta Pal

Coordinators, 2nd National Workshop on Emerging Tools and Technologies in Research (ETTR 2019)

Department of Information Technology, Tripura University

Suryamaninagar, Agartala, Tripura 799022, India

Visit Us: www.ittu.in

Email us: ittuwks@gmail.com, alakroy@tripurauniv.in (Dr. Alak Roy),

jayantapal@tripurauniv.in (Jayanta Pal)

Phone No: 09436243766 (Dr. Alak Roy), 09774829599 (Jayanta Pal)



Schedule ETTR 2019.pdf

618K

2nd One-week National Workshop on Emerging Tools and Technologies in Research
5th to 9th November, 2019

Department of Information Technology, Tripura University, Suryamaninagar, Tripura, India

Website: www.ittu.in

Email: ittuwks@gmail.com

TENTATIVE SCHEDULE¹

	10 AM - 11.15 AM		11.30 AM - 12.45 PM	12.45-1.45 PM	1.45 PM - 3.00 PM		3.15 PM – 4.30 PM
05-Nov -19 Tuesday	Registration and Inauguration	TEA BREAK	Course Certification through MOOCs Dr. Swanirbhar Majumder	LUNCH BREAK	Basic of Statistics in Research Sri Dilip Kumar Rana	TEA BREAK	Basic of Statistics in Research Sri Dilip Kumar Rana
06-Nov -19 Wednesday	LaTeX using Overleaf Sri Alak Roy		LaTeX using Overleaf Sri Alak Roy		R-Programming Dr. Subir Kumar Sen		R-Programming Dr. Subir Kumar Sen
07-Nov-19 Thursday	Statistical Package for Social Sciences (SPSS) Dr. Samrat Goswami		Statistical Package for Social Sciences (SPSS) Dr. Samrat Goswami		R-Programming Dr. Subir Kumar Sen		R-Programming Dr. Subir Kumar Sen
08-Nov -19 Friday	Statistical Package for Social Sciences (SPSS) Dr. Sabyasachi Dasgupta		Statistical Package for Social Sciences (SPSS) Dr. Sabyasachi Dasgupta		Usage of MOOC's for Learning Sri Sakti Debbarma		Programming in Python Sri Jayanta Pal
09-Nov -19 Saturday	Programming in Python Sri Jayanta Pal		Programming in Python Sri Jayanta Pal		Valedictory and Photo Session		Certificate Distribution

The physical registration will begin on 05th NOV 2019 (Tuesday) at 10:00 A.M.

Venue: Auditorium I, Academic Building XI, Tripura University.

¹ The schedule may be changed in the due course of time if required and depending on availability of resource persons



Department of Information Technology

सूचना प्रौद्योगिकी विभाग

त्रिपुरा विश्वविद्यालय/TRIPURA UNIVERSITY

(केन्द्रीय विश्वविद्यालय/A Central University)

सूर्यमणिनगर, अगरतला, त्रिपुरा (प.) / Suryamaninagar, Agartala, Tripura (W.), Pin/PIN - 799022, भारत/INDIA.

दूरभाष/Phone: +91 381 237 9372

फैक्स/Fax: +91 381 237 4802

ई-मेल/Email: hod_it@tripurauniv.in

वेबसाइट/Web: www.tripurauniv.ac.in

Dr. Swanirbhar Majumder
Associate Professor and Head,
Dept. of Information Technology,
Tripura University, Suryamaninagar

O/c

To
The Finance Officer
Tripura University, Suryamaninagar.

Dated: 19/11/2019

Subject: **Adjustment of advance and request for reimbursement of excess expenditures incurred for 2nd One-Week National Workshop on Emerging Tools and Technologies in Research (ETTR-2019) during 05th to 09th November, 2019 at Tripura University.**

Respected Sir,

With due respect, I would like to inform you that the department of Information Technology, Tripura University had successfully conducted "2nd One-Week National Workshop on Emerging Tools and Technologies in Research" during 05th to 09th November, 2019. With the kind helping hand from your side I have received an amount of Rs. 6,000/- (Six Thousand only) in advanced and collected Rs. 19,800/- (Nineteen Thousand Eight Hundred only) from 80 registered participants (32 Online + 48 Spot) as registration fee [Rs. 200/- (two hundred) for online registration and Rs. 300/- (three hundred) for spot registration].

In this regard, I would like to draw your attention that, initially the seat limit was 60, but due to a large number of responses we had to extend the limit and 80 participants (20 extra) had registered. The registration fee had been increased compared to the previous year so we had arranged packet lunch for all the participants and as a result there were over expenditure with respect to the budget proposed.

The total expenditure amounting to Rs. 34,085/- (Thirty-Four Thousand Eighty-Five Only) was incurred by the Coordinators (Dr. A. Roy and Mr. J. Pal) for the intended purpose for which Rs. 25,800/- (Rs. 6,000 from Tripura University and Rs. 19,800/- from Participants) was the actual budget.

Therefore, I would like to request you to reimburse the balance incurred amount of Rs. 8285/- (Eight Thousand Two Hundred Eighty-Five Only) to the department. Submitted for your kind perusal and necessary action please. The adjustment for the total amount is given in ANNEXURE-I, represented by 08 nos. of vouchers.

Thanking You.

Yours Sincerely

(Swanirbhar Majumder)

Enclosure:

1. ANNEXURE-I
2. Participant Registration detail for the workshop
3. Vouchers in original (08 nos.)





Dr. Alak Roy, Tripura University <alakroy@tripurauniv.in>

Invitation to Valedictory Ceremony of ETTR 2019

Swanirbhar Majumder <swanirbhar:majumder@tripurauniv.in>

Sat, Nov 9, 2019 at 11:01 AM

To: Vice Chancellor <vc@tripurauniv.in>, dean science <dean_science@tripurauniv.in>, dean_artscommerce@tripurauniv.in, dean studentwelfare <dean_studentswelfare@tripurauniv.in>, U K Das <fo@tripurauniv.in>, Registrar TU <registrar@tripurauniv.in>

Cc: faculties <faculties@tripurauniv.in>, officers <officers@tripurauniv.in>, nonteachingstaffs@tripurauniv.in, researchscholars@tripurauniv.in

Respected Sir/Madam

The department of INFORMATION TECHNOLOGY cordially invites you to the post lunch valedictory ceremony of the 2nd One Week National Workshop on Emerging Tools and Technologies in Research (ETTR 2019).

Time: 1:30 PM

Venue: Auditorium 1 of Academic Building 11.

We as a department as a whole and myself in particular thank one and all of the University fraternity for making the program a success last year's program on the same date 5-9th Nov'18.

Hope to continue with the good work with the help/support and guidance of Competent Authority, both the Deans, the senior officers and non teaching staff of University.

We from the department side will specially like to thank the Speakers (Internal Faculty) who have extended their expertise to the students without any Honorarium.

I, myself in particular will like to thank the students, faculty and staff of IT department and my other faculty peers of Academic Building 9.

Thank you all for the unconditional support. Expect the same for the upcoming 2 international Conferences and ATAL workshops in this financial year.

Details of these programs are listed in: www.ittu.in with respective links to web pages.

With Regards
Swanirbhar



केंद्रीय हिंदी संस्थान, आगरा

(मानव संसाधन विकास मंत्रालय, भारत सरकार)

हिंदी संस्थान मार्ग, आगरा-282 005

CENTRAL INSTITUTE OF HINDI, AGRA

(MINISTRY OF HUMAN RESOURCE DEVELOPMENT, GOVT. OF INDIA)

HINDI SANSTHAN MARG, AGRA-282 005

क्षेत्रीय केंद्र : दिल्ली, हैदराबाद, गुवाहाटी, शिलांग, मैसूर, भुवनेश्वर, दीमापुर, अहमदाबाद

REGIONAL CENTRES : DELHI, HYDERABAD, GUWAHATI, SHILLONG, MYSORE, BHUBANESWAR, DIMAPUR, AHMEDABAD

फा.सं. 14-59/पू०शि०सा०नि०वि०/2019-20/775

दिनांक : 18.12.2019

सेवा में,

डॉ. मिलन रानी जमातिया,
सहायक प्राध्यापिका, हिंदी विभाग
त्रिपुरा, विश्वविद्यालय, त्रिपुरा

विषय : हिंदी-जमातिया अध्येता कोश के निर्माण के संबंध में।

महोदया

सूच्य है कि केंद्रीय हिंदी संस्थान, आगरा के पूर्वोत्तर शिक्षण सामग्री निर्माण विभाग द्वारा हिंदी-जमातिया अध्येता कोश के निर्माण हेतु तृतीय कार्यशाला दिनांक 06.01.2020 से 10.01.2020 तक त्रिपुरा विश्वविद्यालय, त्रिपुरा के अतिथि निवास में स्थित सभागार में आयोजित की जा रही है। इस आयोजित कार्यशाला में हिंदी-जमातिया अध्येता कोश द्वितीय प्रूफ संशोधन हेतु सामग्री पृष्ठ संख्या से 01 से 348 तक आपके पते पर भेजी जा रही है।

अतः उक्त सामग्री की प्राप्ति की सूचना भेजने तथा कार्य समाप्ति के पश्चात् सामग्री केंद्रीय हिंदी संस्थान, आगरा के पूर्वोत्तर शिक्षण सामग्री निर्माण विभाग को भेजने का कष्ट करें।

सधन्यवाद।

भवदीय

सतवीर सिंह
(डॉ. सतवीर सिंह)

विभागाध्यक्ष

पूर्वोत्तर शिक्षण सामग्री निर्माण विभाग

सचल भाष :- 8249244925

ई-मेल :- khspssnv@gmail.com



**Two Day Virtual
International Seminar**

On

**“Visualising the Changes in Public Library System:
Issues and Challenges after the lockdown”**

**Organised by
Department of Library and Information Science
Maharaja Bir Bikram University
Agartala, Tripura**

In Collaboration with
**Department of Library and Information Science
Tripura University
Suryamaninagar, Tripura**

06-07th August, 2020

TENTATIVE PROGRAMME SCHEDULE[#]

07th August 2020 (Day-2)
Special Invited Speech-2

Chairperson: Prof. Satyadeo Poddar , Hon'ble Vice Chancellor, MBB University	
10.00AM to 10.25 AM	Invited Speech by Dr. Dewendra Kumar Singh , Librarian, Central Library, BHU
10.25 AM to 10.50 PM	Invited Speech by Prof. Moses M. Naga, Professor , Dept. of Lib. & Inf. Sc., NEHU

Invited Speech-V
(10.50 AM to 11.05 AM)

Invited Speech by **Biswajit Saha**, Librarian, Kazi Nazrul Univesrity, Asansol

Technical Session-V
(11.05 AM to 12.00 PM)

Chairperson: **Biswajit Saha**, Librarian, Kazi Nazrul Univesrity, Asansol.

1. **Prof. Pavankumar U D**, Professor, Department of P. G. Studies in Commerce, KLE's G H College, Haveri and **Prof. Megha G Patil**, Professor, Department of P. G. Studies in Commerce, KLE's G H College, Haveri *on Issues and challenges faced by the public library during and after COVID-19 impact- A study on India*
2. **Dr. Nirajdayal Singh**, Asst. Professor, M.A. Economics, *on Impact of corona pandemic and indian government policies and its significance*
3. **Mrs. Sumita Banik Saha**, Assistant Professor, Department of Economics, St. John College, Dimapur, Nagaland, *on COVID 19 and Challenges to Maintain Education and Educational Resources as Public Good in India*
4. **Mr. Suraj Kumar Dey**, Student, Department of Botany, M.C. College, Barpeta *on COVID-19 Crisis impact on rural assam exposes inequality and pitfalls in access to education: An observation.*

Question/ Answer (5-10 Minutes)

Invited Speech-VI

(12.00 PM to 12.15 PM)

Invited Speech by **Dr. Ibohal Singh**, Associate Professor, Dept. of Lib. & Inf. Sc.,
Manipur University

Technical Session-VI

(12.15 PM to 01.00 PM)

Chairperson: Dr. Ibohal Singh , Associate Professor, Dept. of Lib. & Inf. Sc., Manipur University
<ol style="list-style-type: none">1. Ms. Kakali Chakraborty, Asst. Librarian, Techno College of Engineering Agartala (TCEA), India, <i>on Public library services in the digital age: an analytical study</i>2. Mr. Debashis Pratim Sarma, Scholar <i>on Analysis of Actions adopted by Central Universities of North-East India during COVID-19 Pandemic: a desktop analysis</i>3. Ms. Priyanka Bose, Student, Dept. of Library and Information Science, Tata Institute of Social Sciences, Mumbai <i>on Studying the new responsibilities of the Public Libraries in the aftermath of pandemic</i>4. Mr. Sourav Malakar, Student, Department Library and Information science, Tripura University, Tripura <i>on The impact of e-teaching learning during COVID-19 period: A survey at Tripura University</i>
Question/ Answer (7-10 Minutes)

Invited Speech-VII

(01.00 PM to 01.15 PM)

Invited Speech by **Prof. Sanjay Kumar Singh**, Professor and Head,
Dept. of Lib. & Inf. Sc., Guwahati University

Technical Session-VII

(01.15 PM to 02.00 PM)

Chairperson: Prof. Sanjay Kumar Singh , Professor and Head, Dept. of Lib. & Inf. Sc., Guwahati University
<ol style="list-style-type: none">1. Mr. James Amah Séna, Trainer / Project writer, AGBODJINOU, Africa <i>on Artificial Intelligence in the valuation of public libraries through the virtual fair.</i>2. Ms. Jayanti Chakraborty, Research Scholar and Dr. R. K. Mahapatra, Head and Associate Professor, Department of Library and Information Science, Tripura University <i>on COVID-19 Impact on Libraries and the Role of E-books, E-journals and E-Literature.</i>3. Mr. Pranjal Deka, Teaching Associate, Department of Library and Information Science, Assam Women's University, Jorhat <i>on Importance of Electronic Resources in the Public Libraries</i>4. Ms. Sangeeta Kalai, Library Trainee and Dr. R. K. Mahapatra, Head and Associate Professor, Department of Library and Information Science, Tripura University <i>on Role of Public Libraries of the Tripura in Preservation and Conservation of Indigenous Knowledge: An Empirical Study</i>5. Ms. Payal Paul, Student, Department of Library and Information Science, Tripura University, <i>on An impact of COVID-19 at National Library of India during COVID-19 period.</i>
Question/ Answer (7-10 Minutes)

Invited Speech-VIII
(02.00 PM to 02.15 PM)

Invited Speech by **Prof. Manoj Kumar Sinha**, Professor, Head and Dean,
Dept. of Lib. & Inf. Sc., Assam University

Technical Session-VII
(02.15 PM to 03.30 PM)

Chairperson: Prof. Manoj Kumar Sinha, Professor , Head and Dean, Dept. of Lib. & Inf. Sc., Assam University	
1.	Mr. Subhajit Panda , Assistant Librarian, University Library, Chandigarh University, Mohali, Punjab and Prof. Rupak Chakravarty , Professor, Department of Library and Information Science, Panjab University, Chandigarh <i>on Implementing Conversational AI in Libraries: a practical approach</i>
2.	Dr. Sucheta Bhattacharjee , Former Assistant Professor, <i>on Familiarization of Library Services to People: An Urgent Needs for Orientation at Digital Era</i>
3.	Ms. Deblina Das , Student, Department of Library and Information Science, MBB University <i>on The Services Provided by American Library of Kolkata During Lockdown Period.</i>
4.	Mr. Biswajit Deb , Student, Department of Library and Information Science, MBB University <i>on Issues faces by Dhalai District Public Library during COVID-19.</i>
5.	Mr. Manju Kant , Consultant, AICTE Library, New Delhi <i>on Impact of COVID-19 on Public Library.</i>
6.	Ms. Nilakshi Sharma , PhD research Scholar, Department of Library and Information Science, Mizoram University, Aizawl <i>on A Study on Covid-19 Research Outputs of SAARC Countries</i>
7.	Mr. Saurabh Kr. Baruah , Assistant Librarian, Bhattadev University, Bajali <i>on Use of Web 2.0 tools in combating Infodemic by the National Libraries of G20 Countries: A Study</i>
8.	Mr. Sripada Das , National Youth Volunteer, Nehru Yuva Kendra Sangathan, Tripura <i>on Status of District Public Library North Tripura during COVID-19 period.</i>
Question/ Answer (7-10 Minutes)	

Valedictory Session
(03.30 PM to 04.30 PM)

03.30 PM to 03.35 PM	Welcome Address by Dr. Sudip Bhattacharjee , Organising Secretary
03.35 PM to 03.45 PM	Seminar Report by Dr. Antiarbum Ranglong , Assistant Professor, MBB University
03.45 PM to 03.55 PM	Invited Speech by Sri Dilip Kumar Das , Head Librarian and Head of Office, Bir Chandra State Central Library, Agartala
03.55 PM to 04.05 PM	Feedback Session
04.05 PM to 04.20 PM	Presidential Address by Prof. Satyadeo Poddar , Hon'ble Vice Chancellor, MBB University
04.20 PM to 4.25 PM	Vote of Thanks by Dr. R. K. Mahapatra , Associate Professor, Tripura University & Convener
4.25 PM to 4.30 PM	National Anthem

**Foreign Delegates are requested to intimate the organizer regarding their suitability of time, if they have any problem.*

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त्रिपुरा विश्वविद्यालय TRIPURA UNIVERSITY

(केन्द्रीय विश्वविद्यालय / A Central University)

सूर्यमणिनगर, अगरतला / Suryamaninagar, Agartala

त्रिपुरा(प.) / Tripura (W), पिन/PIN – 799022, भारत/ INDIA



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वेबसाइट / Website : www.tripurauniv.in

No. TU/REG/G-Admin/04/2015(Vol-IV)

Date: ..19../11/2019

NOTIFICATION

This is to notify for information of all concerned that for the smooth organizing of the “2nd International Conference on Information Systems and Management Science (ISMS 2019)” during 6th to 7th December, 2019 the following Committee(s) has been constituted :

Organizing Committee for ISMS 2019

Chief Patron:

1. Hon'ble Vice Chancellor, Tripura University

Honorary Chairs:

1. Prof. S. Banik, Dean of Faculty of Science, Tripura University
2. Prof. Chandrika Basu Majumder, Dean of Faculty of Arts and Commerce, Tripura University.

General chairs:

1. Prof. Paramartha Dutta, Dept of CSE, Visva-Bharati, Santiniketan

Organizing Chair:

1. Dr. Alak Roy, Dept of IT, Tripura University
2. Dr. Nirmalya Debnath, Dept. of Business Management, Tripura University
3. Mr. Jayanta Pal, Dept of IT, Tripura University

Program Chairs:

1. Dr. Debarshi Mukherjee, Assoc Prof., Dept. of Business Management, Tripura University
2. Dr. Rabindra Kumar Mahapatra, Dept. of Library and Information Science, Tripura University
3. Dr. P K P Rupa, Dept. of Material Science & Engineering, Tripura University
4. Dr. Swanirbhar Majumder, Assoc Prof., Dept. of IT, Tripura University

Session Management Chair:

1. Dr. Mrinal Kanti Bhowmik, Dept. of CSE, Tripura University
2. Dr. Bishanka Brata Bhowmik, Dept. of ECE, Tripura University
3. Ms. Mahasweta Das (Saha), Dept. of Business Management, Tripura University

Publicity Chair:

1. Dr. B. Sanjay, HoD, Dept. of Library and Information Science, Tripura University
2. Dr. Abhishek Majumder, Dept. of CSE, Tripura University
3. Ms. Anjana Kalai, Dept. of Business Management, Tripura University
4. Mr. Surendra Kumar Pal, Assistant Librarian, Tripura University
5. Sri Ashish Choudhury, Information Scientist, Central Library, Tripura University

Finance Chair:

1. Mr. Swarup Nandi, Dept. of IT, Tripura University
2. Mr. Manish Das, Dept. of Business Management, Tripura University

Transport Chair:

1. Mr. Chameshwar Mishra, Deputy Librarian, Tripura University
2. Mr. Sumanta Saha, Dept. of IT, Tripura University
3. Mr. Augustine Zimik, Dept. of Library and Information Science, Tripura University
4. Mr. Tamal Chaudhuri, Dept. of Business Management, Tripura University

Hospitality Chair:

1. Dr. Rabindra Kumar Mahapatra, Dept. of Library and Information Science, Tripura University
2. Harjeet Nath, Dept. of Chemical and Polymer Engineering, TU

Publication Chair:

1. Dr. Alak Roy, Dept of IT, Tripura University
2. Mr. Jayanta Pal, Dept of IT, Tripura University
3. Dr. Swanirbhar Majumder, HoD, Dept. of IT, Tripura University

Venue Management:

1. Dr. Champa Nandi, Dept. of EE, Tripura University
2. Dr. Anirban Karmakar, Dept. of ECE, Tripura University
3. Sri Sakti Debbarma, I/C Computer Center, Tripura University
4. Mr. Bhaskar Biswas, Dept of IT, Tripura University

Registration:

1. Mrs. Sangita Das Biswas, Dept. of EE, Tripura University
2. Mrs. Gagari Deb, Dept. of EE, Tripura University
3. Tandra Sarkar, Dept of IT, Tripura University

Technical Program Committee (Information Systems):

1. Prof. Sukumar Nandi, Dept of CSE, IIT Guwahati
2. Prof. Sudip Mishra, Dept of CSE, IIT Kharagpur
3. Prof. S K Sarkar, Dept of ETCE, Jadavpur University
4. Prof. Sushanta Karmaker, Dept of CSE, IIT Guwahati
5. Prof. M Mitra, Dept of Applied Physics, University of Calcutta
6. Prof. Sudipta Roy, Dept of CSE, Assam University
7. Prof. S. Karmaker, Dept of CSE, IIT Guwahati
8. Prof. D. K. Bhattacharya, Dept of CSE, Tezpur University
9. Prof. Ratnadeep Bhattacharjee, Dept of ECE, IIT Guwahati
10. Prof. Nityananda Sharma, Dept of CSE, Tezpur University
11. Prof. M A Hussain, Dept. of ECE, NERIST, A. Pradesh
12. Prof. Amlan Chakraborty, School of IT, University of Calcutta
13. Prof. T Tuithung, Dept of CSE, NIT Nagaland
14. Prof. D Bhattacharjee, Dept of CSE, Jadavpur University
15. Prof. Goutam Saha, Dept of IT, NEHU, Shillong
16. Prof. Utpal Bhattacharjee, Rajiv Gandhi University

17. Prof. R Gupta, Dept of Applied Physics, University of Calcutta
18. Prof. Bhogeswar Borah, Dept of CSE, Tezpur University
19. Prof. L J Singh, Dept of ECE, NEHU, Shillong
20. Prof. L L K Singh, Dept of ECE, Mizoram University
21. Prof. Saibal Chatterjee, Dept of EEE, NIT Mizoram
22. Prof. S. K Arya, Dept of ECE, NEHU, Shillong
23. Prof. S Ranbir Singh, Dept of ECE, IIT Guwahati


24. Prof. R Subedar, Dept of ECE, NEHU, Shillong
25. Prof. S Pal, Dept of Applied Physics, University of Calcutta
26. Dr. Ningrinla Marchang, NERIST
27. Dr. Jhunu Debbarma, Dept of CSE, TIT Agartala
28. Dr. Sujay Deb, Dept of ECE, IIIT Delhi
29. Dr. B K Upadhaya, Dept of ECE, TIT Agartala
30. Dr. Swarup Roy, Dept of CSE, Sikkim University
31. Dr. N Kishorjit Singh, Dept of CSE, IIIT Manipur
32. Dr. Mrinal Deb Barma, Dept of CSE, NIT Agartala
33. Mr. Shibendu Debbarma, Director STPI, Agartala
34. Dr. A. D. Singh, Dept of ECE, NERIST, Arunachal Pradesh
35. Dr. C. N. Gupta, IIT Guwahati.
36. Dr. Swapan Debbarma, NIT Agartala
37. Dr. Abhijit Biswas, Assam University, Silchar
38. Dr. Ashim Saha, CSE Dept., NIT Agartala
39. Dr. Syed Arshad Hussain, Dept of Physics, Tripura University
40. Dr. Gobinda Gopal Khan, Material Science & Engineering, TU
41. Mr. M. Mishra, NERIST, Arunachal Pradesh
42. Mr. Nirmalya Kar, Dept of CSE, NIT Agartala
43. Mr. Sudipta Mazumder, Dibrugarh University
44. Mr. Suman Deb, Dept of CSE, NIT Agartala
45. Mr. A. K. Patra, NERIST, Arunachal Pradesh.
46. Dr. Ratan Das, Dept. of Physics, TU
47. Mr. Kunal Chakma, Dept of CSE, NIT Agartala
48. Mr. Vaskar Deka, Gauhati University
49. Dr. Prashant K Rout, Material Science & Engineering, TU
50. Mr. Anupam Jamatia, Dept of CSE, NIT Agartala
51. Dr. Sachin Baladhara, Chemical & Polymer Engineering, TU
52. Mr. Amitabha Nath, Dept of IT, NEHU
53. Mr. Arnab Paul, Dept of CSE, Assam University
54. Mr. Lalhmingliana, Mizoram University

Technical Program Committee (Management Science):

1. Chandana Goswami, Professor, Tezpur University
2. Mrinmoy K Sarma, Professor, Tezpur University
3. Debabrata Das, Professor, Tezpur University
4. Papor Baruah, Professor, Tezpur University
5. Subhrangshu Sekhar Sarkar, Professor, Tezpur University
6. Chandan Goswami, Professor, Tezpur University
7. Anjan Bhuyan, Associate Professor, Tezpur University
8. Tridib R Sarma, Associate Professor, Tezpur University

9. Arup Roy, Associate Professor Tezpur University
10. Heera Barpujary, Assistant Professor, Tezpur University
11. Runumi Das, Assistant Professor, Tezpur University
12. Mridul Dutta, Assistant Professor, Tezpur University
13. Kakali Mahanta, Assistant Professor, Tezpur University
14. Dr. Apurbananda Mazumdar, Professor, Assam University
15. Dr. Amrit Lal Ghosh, Associate Professor, Assam University
16. Dr. Arup Barman, Associate Professor, Assam University
17. Dr. D. Ghose, Associate Professor, Assam University
18. Ashok Kumar Sar, Professor, KIIT Deemed to be University
19. Ashutosh Kar, Associate Professor, KIIT Deemed to be University
20. Kaushik Sahu, Professor, KIIT Deemed to be University
21. Sumita Mishra, Associate Professor, KIIT Deemed to be University
22. Kumar Mohanty, Associate Professor, KIIT Deemed to be University
23. Jyotiranjana Hota, Associate Professor, KIIT Deemed to be University
24. Brajaballav Kar, Associate Professor, KIIT Deemed to be University
25. Jitendra Mohanty, Professor, KIIT Deemed to be University
26. Ipseeta Satpathy, Professor, KIIT Deemed to be University
27. Sasmita Mishra, Associate Professor, KIIT Deemed to be University
28. B.C.M.Patnaik, Associate Professor, KIIT Deemed to be University
29. Biswajit Das, Professor, KIIT Deemed to be University
30. Rabi N. Subudhi, Professor, KIIT Deemed to be University
31. Srikant Charan Das, Associate Professor, KIIT Deemed to be University
32. Abhishek Kumar, Associate Professor, KIIT Deemed to be University
33. Dr. Y V Krishnaiya, Associate Professor, Tripura University
34. Dr. Samrat Goswami, Assistant Professor, Tripura University
35. Dr. Arabinda Mahato, Assistant Professor, Tripura University
36. Dr. Jayanta Chowdhury, Assistant Professor, Tripura University

This is issued with the approval of the Hon'ble Vice-Chancellor, Tripura University.


19/11/19
Registrar (I/c)

To
All concerned members

.....

Copy to:

1. The Dean, Faculty of Science, TU
2. The Finance Officer, TU
3. The Head, Dept. of IT, TU
4. The Head/Head(i/c), Dept. of.....
5. PS to the Hon'ble Vice-Chancellor, TU



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070
Website: www.aicte-india.org



AICTE TRAINING AND LEARNING (ATAL) ACADEMY

F.No. 01/AICTE /ATAL-HQ/2019-20

Date - 20 August, 2019

To

The Coordinator,
(ATAL Academy Programme)
Tripura University
Tripura
Name of the Co-ordinator : Alak Roy
Mobile No. : 9436243766
Email ID : alakroy@tripurauniv.in

Sub: Release of a sum of Rs. 1,62,000/- for AICTE Training and Learning (ATAL) Academy programme- reg.

Sir/Madam,

This is to convey the sanction of the Council for payment of **Rs. 1,62,000/- (Rupees One Lakh Sixty-Two Thousand Only)** for conduct of AICTE Training And Learning (ATAL) Academy programme **Data Sciences** to **Tripura University** under AICTE Training And Learning (ATAL) Academy.

This fund is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

- The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- The cost for conducting per programme will be Rs.1,62,000/- as per detail given as under:

1.	Honorarium for Director/Vice-chancellor/Head of Institution	Rs. 10,000/-
2.	Honorarium to Coordinator Rs.2000/- per day × 5 days	Rs. 10,000/-
3.	Honorarium for experts (Rs.3000 per session for total 14 session)	Rs. 42,000/-
4.	Refreshment & Lunch (Rs. 300 per head for 50 trainees for 5 days)	Rs. 75,000/-
5.	Institutional charges	Rs. 15,000/-
6.	Miscellaneous charges	Rs. 10,000/-
	TOTAL	Rs. 1,62,000/-

- The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted by the University/College/Institution.

II. Disbursement of funds to institutions

The full amount of the grant sanctioned will be released as an advance to the University/Institute through electronic transfer on the account of the University/Institute after submission of mandate form

III. Conduct of test and issuance of certificate

- A test shall be conducted by coordinator at the end of the program.
- The certificates shall be issued to those participants who have attended the program without any absenteeism and scored minimum 60% marks in the test.

IV. Submission of documents by university/institution

- a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program: -
 - (i) List of candidates who have successfully completed the program on the basis of the test conducted by Program Coordinator.
 - (ii) A program completion report along with photographs, videos, media report is to send after the completion of workshop along with the list of participants and Utilization Certificate, Expenditure Statement and feedback form etc. within one month of conduct of **AICTE Training And Learning (ATAL) Academy programme**.
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall be adjusted.

V. General Instructions

- a. **Participants have to be faculty of AICTE approved institutions/ Host Institution/ Research Scholar/PG Scholar.**
- b. **If programme is not conducted in the year 19-20, the released amount, along with interest accrued thereon, has to be returned back to AICTE.**
- c. **Any extra money required to complete the programme must be borne by the institute from their own resources but the quality of the activities should not be compromised.**
- d. **Any unavoidable circumstantial change in the Program with respect to name of Project Coordinator, Venue and date for organizing AICTE Training and Learning (ATAL) Programme would mandatorily require prior approval of the Council. All such requests should be addressed to ATAL Academy, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council.**
- e. **This Sanction Order may be treated as Offer Letter for all purposes.**

Yours Sincerely,



(I/C ATAL Academy, Guwahati)

Copy forwarded for information and necessary action to: -

1. **Coordinator ATAL Programme**
2. **ATAL Academy Cell AICTE HQ**
3. **Guard File**



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

Website: www.aicte-india.org



AICTE TRAINING AND LEARNING (ATAL) ACADEMY

F.No. 01/AICTE /ATAL-HQ/2019-20

Date – 20 August, 2019

To

**The Coordinator,
(ATAL Academy Programme)**

Tripura University

Tripura

Name of the Co-ordinator :Swanirbhar Majumder

Mobile No. : 9436229406

Email ID : swanirbhar:majumder@tripurauniv.in

Sub: Release of a sum of Rs. 1,62,000/- for AICTE Training and Learning (ATAL) Academy programme- reg.

Sir/Madam,

This is to convey the sanction of the Council for payment of **Rs. 1,62,000/- (Rupees One Lakh Sixty-Two Thousand Only)** for conduct of AICTE Training And Learning (ATAL) Academy programme **Artificial Intelligence** to **Tripura University** under AICTE Training And Learning (ATAL) Academy.

This fund is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

- The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- The cost for conducting per programme will be Rs.1,62,000/- as per detail given as under:

1.	Honorarium for Director/Vice-chancellor/Head of Institution	Rs. 10,000/-
2.	Honorarium to Coordinator Rs.2000/- per day × 5 days	Rs. 10,000/-
3.	Honorarium for experts (Rs.3000 per session for total 14 session)	Rs. 42,000/-
4.	Refreshment & Lunch (Rs. 300 per head for 50 trainees for 5 days)	Rs. 75,000/-
5.	Institutional charges	Rs. 15,000/-
6.	Miscellaneous charges	Rs. 10,000/-
	TOTAL	Rs. 1,62,000/-

- The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted by the University/College/Institution.

II. Disbursement of funds to institutions

The full amount of the grant sanctioned will be released as an advance to the University/Institute through electronic transfer on the account of the University/Institute after submission of mandate form

III. Conduct of test and issuance of certificate

- A test shall be conducted by coordinator at the end of the program.
- The certificates shall be issued to those participants who have attended the program without any absenteeism and scored minimum 60% marks in the test.

IV. Submission of documents by university/institution

- a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program: -
 - (i) List of candidates who have successfully completed the program on the basis of the test conducted by Program Coordinator.
 - (ii) A program completion report along with photographs, videos, media report is to send after the completion of workshop along with the list of participants and Utilization Certificate, Expenditure Statement and feedback form etc. within one month of conduct of **AICTE Training And Learning (ATAL) Academy programme**.
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall be adjusted.

V. General Instructions

- a. **Participants have to be faculty of AICTE approved institutions/ Host Institution/ Research Scholar/PG Scholar.**
- b. **If programme is not conducted in the year 19-20, the released amount, along with interest accrued thereon, has to be returned back to AICTE.**
- c. **Any extra money required to complete the programme must be borne by the institute from their own resources but the quality of the activities should not be compromised.**
- d. **Any unavoidable circumstantial change in the Program with respect to name of Project Coordinator, Venue and date for organizing AICTE Training and Learning (ATAL) Programme would mandatorily require prior approval of the Council. All such requests should be addressed to ATAL Academy, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council.**
- e. **This Sanction Order may be treated as Offer Letter for all purposes.**

Yours Sincerely,



(I/C ATAL Academy, Guwahati)

Copy forwarded for information and necessary action to: -

1. **Coordinator ATAL Programme**
2. **ATAL Academy Cell AICTE HQ**
3. **Guard File**

Invitation



Kutham Kothoma

The three folk tales

THE RELEASE

THE SCREENING

THE FELICITATION

Chief Patron :

Prof. M.K Singh, Vice Chancellor (Acting), Tripura University

Chief Guest :

Shri. Jishnu Dev Varman, Deputy Chief Minister, Govt. of Tripura

Guest of Honour :

Mr. Mevar Kumar Jamatia, Minister of Tribal welfare, Govt. of Tripura

Special Guests :

Prof. Chandrika Basu Majumdar, Dean of Arts & Commerce, Tripura University

Prof. Sukanta Banik, Dean of Science, Tripura University

Mr. Sanjib Dey, Film Director

Prof. A Gupta, Film Maker

Prof. Sukhendu Debbarma, Head Department of Kokborok, Tripura University

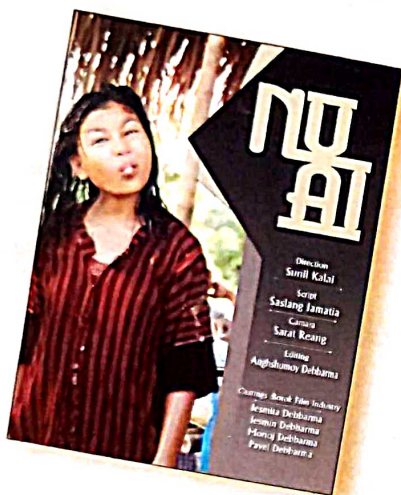
Mr. Sunil Debbarma, Director, Kokborok and Minority Languages, Govt. of Tripura.

Mr. Dhannanjay Debbarma, Director, Tribal Research and Cultural Institute, Govt. of Tripura

THURSDAY
13TH FEBRUARY
2020



Time : 12:30 Noon
Hall-2, Academic Building 11



Director : Sunil Kalai.

Planning & Management : Dr. Jayanta Choudhury

Cinematographer : Sarat Reang , Sunil Kalai and
Angshumoy Debbarma,

Edit : Angshumoy Debbarma and Sarat Reang,

VFX : Angshumoy, Sarat & Romeo Debbarma,

Script : Ruhi Debbarma and Saslang Jamatia,

Recording Studio : Salka Studio ,

Dubbing & Music : Milton Debbarma,

Production Manager : Roshani Rai, Gumati Kalai Singh,

Camera Asst. : Tarun Barua, Mwchang Debbarma,
Kamal Jamatia,

Sound : Karl Marx Daimari, Tarun Barua and Mwchang

Costume : Suma Kalai

Art Direction : Emang Debbarma

Light : Monoj Debbarma, Prasenjit Debnath

Make-up : Soma Debbarma, Payel Debbarma,

Singer : Anil Debbarma, Rita Debbarma, Parmita Reang,

Bipasha Reang.

Supported by : Tiyari Drama & Cultural Center along with
Borok Film Industry.



Kutham Kothoma

The three folk tales

THE RELEASE
THE SCREENING
THE FELICITATION

Time : 12:00 Noon onwards

THURSDAY

13TH FEBRUARY

2020



Our Guests

Chief Patron :

Prof. M.K Singh

Vice Chancellor (Acting), Tripura University

Chief Guest :

Shri. Ashu Dev Varman

Deputy Chief Minister, Govt. of Tripura

Guest of Honour :

Mr. Maver Kumar Jamatia

Minister of Tribal welfare, Govt. of Tripura

Special Guests :

Prof. Chandrika Basu Majumdar

Dean of Arts & Commerce, Tripura University

Prof. Sukanta Banik

Dean of Science, Tripura University

Mr. Sanjib Dey, Film Director

Prof. A Gupta, Film Maker

Prof. Sukhendu Debbarma

Head Department of Kokborok, Tripura University

Mr. Sunil Debbarma ,

Director, Kokborok and Minority Languages,
Govt of Tripura.

Mr. Dhannanjay Debbarma, Director,
Tribal Research and Cultural Institute
Govt. of Tripura



Program Schedule

- Preparation of the Dias
- Felicitation of the Guests
- Wellcome Song
- Introductory Speech
- Condolence Message
- Lighting of the Lamp
- Speech by Director, TRI
- Speech by Project Director
- Felicitation of Artists
- Speech by Special Guests
- Speech by Guests of Honour
- Speech by Chief Guest
- Release of the Film
- Screening of the Film
- Vote of thanks.

Organizing Committee

- Chairman :** Prof. Sukhendu Debbarma, Head Dept. of Kokborok, & History, Tripura University
- Member :** Mr. Dhannanjay Debbarma, Director, TR&CI, Govt. of Tripura
- Member :** Mr. Biman Debbarma, Liguistic Officer, TU
- Member :** Dr. Mousami Debbarma, Asst. Professor, Geography, Tripura University.
- Member :** Dr. Lincoln Reang, Asst. Professor, History, Tripura University.
- Member :** Dr. Bidhisa Dhar, Asst. Professor, History, Tripura University
- Member :** Dr. Roshani Rai, Asst. Professor, History, Tripura University
- Member :** Dr. Deepak Upadhyaya, Asst. Professor, JMC, Tripura University
- Member :** Dr. Biplab Debnath, Asst. Professor, Political Science, Tripura University
- Member :** Ms. Parama Chakma, Asst. Professor, Sociology, Tripura University
- Member :** Shri. Sibru Kr. Das, UDC, Registrar's Branch, Tripura University
- Member :** Shri. Subrata Nandi, Security Inspection, Tripura University
- Convener :** Mr. Sunil Kalai, Head(I/c), JMC, Tripura University

Volunteers :

Students from..

Department of Journalism and Mass Communication,

Department of Rural Studies, Tripura University

Department of Bengali, Tripura University

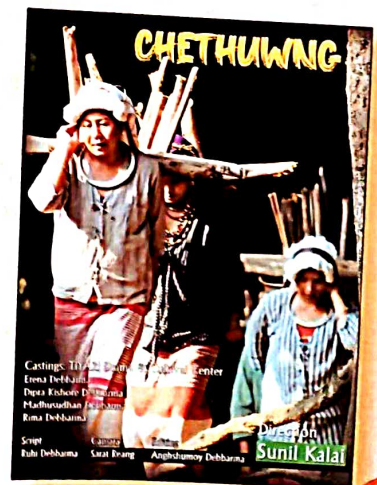
Department of English, Tripura University

Department of Kokborok, Tripura University

For emergencies call : 8787899814

Produced in Collaboration with

Tribal Research & Cultural Institute, Govt. of Tripura
and Department of Journalism and Mass Communication,
along with Rural Studies, Tripura University.





Registered under the West Bengal Societies' Registration Act 1961, No. S/2L/59922

Ref No.

Date:

To
Dr. Paramasree Dasgupta
Assistant Professor,
Department of Bengali,
Tripura University and
Convener,
Seminar Organizing Committee

Respected Madam,

Date : 16.11.2019

You are aware that a 2-Day's International Seminar titled "***Emerging Scenario of Rural India : Society, Education and Literature***", organized by Department of Bengali, Tripura University (A Central University) in collaboration with Byanjanbarna Foundation, Kolkata was held during 15th to 16th November, 2019 at Academic Building II, Tripura University.

I am delighted to inform you that the Seminar has been immensely successful with around 47 Faculty Members of different Colleges and Universities along with Research Scholars of India participating in the Seminar. The event was graced by the thought-provoking speeches of eminent Resource Persons from across India and abroad.

I would like to express my heartiest congratulation and warm gratitude to you for allowing us to unitedly organize the Seminar as a Collaborator and make it a huge success. We are eagerly looking forward to having such opportunities of working with you in the future.

Thanking you,

Yours truly,

Debabrata Biswas

(Dr. Debabrata Biswas)
Secretary
Byanjanbarna Foundation
Kolkata

PATRON

Prof. V. L. Dharurkar
Vice Chancellor
Tripura University
(A Central University)

INTERNATIONAL ADVISORY COMMITTEE

Prof. R.F.Patterson, USA
Prof. Ekrem Savas, Turkey
Prof. Suthep Suantai, Thailand
Prof. M.H.A Biswas, Bangladesh
Prof. D.B.Gurung, Nepal
Prof. Awad Bakry, Egypt
Prof. A. Mukherjee, India
Prof. Peeyush Chandra
Prof. S. Ponnuswamy, India
Prof D.B. Dhaigude, India

NATIONAL ADVISORY COMMITTEE

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Prof. P.D.Srivastava, IIT Villai
Prof. M. K. Chakraborty,(Retd.) Calcutta Univ.
Prof. S. Ponnuswamy, ISI, Chennai
Prof. M. D. Jahagirdar, B.A.Marathwada Univ
Prof D.B. Dhaigude, B.A.Marathwada Univ
Prof Sudip Acharya,(Retd.) Calcutta Univ.
Prof. Mahua Banerjee, IIT Kanpur
Prof. B. K. Sarma, IIT Guwahati
Prof. R. K. Deka, Gauhati Univ.

LOCAL ADVISORY COMMITTEE

Prof. R.N.Bhaumik
Prof. S.K Banik (Dean of Sci.)
Dr. D. Bhattacharya
Dr. Runu Dhar

CHAIRMAN

Prof. A. Mukherjee

ORGANIZING SECRETARY

Prof. B.C. Tripathy

CONVENER

Dr. S Bhattacharya(Halder)

JOINT ORGANIZING SECRETARY

Dr Shyamal Debnath

JOINT CONVENER

Dr. Harish D

FINANCE

Prof. B.C. Tripathy

Dr. Subrata Bhowmik

Dr. Shouvik Bhattacharjee, Treasurer

ORGANIZER: Department of Mathematics,
Tripura University, Suryamaninagar, Tripura, India

TOPICS TO COVER: These include but not limited
to the following:

• Mathematical Analysis • Fuzzy Set • Rough Set
• Number Theory • Geometry • Differential
Equations • Nonlinear Dynamics • Statistics •
Mathematical Biology • Mathematical Physics •
Computer Science etc.

VENUE: Department of Mathematics, Academic
Building-11, Tripura University.



INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN MATHEMATICS AND ITS APPLICATIONS

(ICRAMA-2019) July 16-18, 2019



CALL FOR PAPERS

OBJECTIVE: The Department of Mathematics, Tripura University in collaboration with Marathawada Mathematical Society and Fuzzy Rough Sets Association, Tripura has planned to organize this conference. The primal aim is to bring the researchers working in different fields of Mathematical Sciences from all over the world so that they can interact and exchange the new trends and advances in recent researches in other fields of Mathematical Sciences. Almost all scientific and technological fields are somehow connected. This conference will provide an essential environment of future collaborative works between different Scientific and Technological fields. Another major objective is to provide a platform to the young and vibrant researchers where they can present and discuss their works in front of renowned scientists and academicians working in various fields of Mathematical Sciences.

KEY DATES:

Abstract submission up to: 10th June, 2019

Acceptance Notification: 12th June, 2019

Full paper submission: 2nd July, 2019

ACCOMMODATION:

Limited number of accommodation on payment basis may be arranged in the Tripura University Guest House on first come first serve basis.

TRANSPORTATION:

Tripura is well connected with Silchar, Shillong and Guwahati by road. Agartala, the state capital of Tripura, is also directly connected with Guwahati, Kolkata, Delhi, Chennai by air. Railway communication is also available between Kolkata, Guwahati, Bangalore, New Delhi and Agartala. Tripura University is situated about 5 km away from the Agartala rail station and 16 km away from Agartala airport.

CALL FOR PARTICIPATION:

Participants interested for attending in the conference should send the registration fee in Bank Account (Name: ICRAMA-2019 OF TRIPURA UNIVERSITY, A/C No. 38380668278: State Bank of India, Tripura University Campus Branch: IFSC Code SBIN0010495) and requested to send the scanned copy of the filled in Registration form with fees receipt to icrapam2019@gmail.com as attachment file.

SUBMISSION OF FULL PAPERS:

The invited talks/submitted complete papers in PDF format are to be mailed to icrapam2019@gmail.com. Efforts will be made for publishing the proceedings by an international journal/as a book (INDEXED BY Scopus), following the review process of the said journal/publisher.

REGISTRATION FEES:

Before 16th June, 2019 After 16th June, 2019

For Indian Participants:

Rs 1500 Rs 2000
Rs 600 (for Student) Rs 700 (for Student)

For Foreign Participants:

USD 250 USD 300

ABOUT TRIPURA AND AGARTALA:

Tripura is one of the *Seven Sisters* states of North-East India. It is immortal through the novels of the great *Rabindranath Tagore*. Agartala is the capital of Tripura. Holy shrine Tripureswari temple is situated about 50 KM from Agartala. Other attractions of Agartala are: State Museum at Ujjayanta Palace, Sipahijala Wildlife Sanctuary (habitat of spectacled monkey *Trachypitecus phayrei*), Kasba Kali Temple, Nirmahal etc. Agartala is well connected by Air with Kolkata, New Delhi and Guwahati as well as by bus/train to Silchar, Shillong, Guwahati and Dhaka (capital of Bangladesh). For sightseeing visit: www.tripuratourism.com.

ABOUT TRIPURA UNIVERSITY:

The inception of Tripura University can be tracked back to the establishment of UGC recognition Post Graduate Centre of the University of Calcutta at Maharaja Bir Bikram College in the year 1976. In 1987, Tripura University formally came to being in a State University on October 2nd. In the year 2007 it was converted to Central University. The University is the only University by act of the Parliament in the State of Tripura.

ABOUT DEPARTMENT:

The Department of Mathematics has been functioning since the inception of the Calcutta University Post Graduate Centre (CUPG) in September 1976. At present the Department has 7 whole-time teachers. Analysis, Sequence spaces, Geometry, Fuzzy set theory, Rough set theory etc. are the areas of research.



REGISTRATION FORM

ICRAMA 16-18 JULY, 2019

Name.....

Designation.....

Name of Affiliation

Sex: (Male/Female)

Address for Correspondence

Mobile No.....

E-mail ID.....

Food: Veg / Non-veg

Will you deliver a talk/present a paper? Yes or No

If yes, Title of the talk /paper.....
.....

Date..... (Signature)

CALL FOR PAPERS



इन्दिरा गांधी राष्ट्रीय मानव संग्रहालय
संस्कृति मंत्रालय, भारत सरकार का एक स्वायत्तशासी संस्थान

TRIPURA UNIVERSITY
Department of English

PROPOSAL

for

A 2-day National Seminar titled:
CULTURAL HERITAGE OF TRIPURA

to be organized by the

Dept. of English, Tripura University

in collaboration with

Indira Gandhi Rashtriya Manav Sangrahalaya, Bhopal

Proposed dates: **18th & 19th of March, 2019**

Proposed Venue: Dept. of English, Tripura University Campus, Suryamaninagar, Tripura West.

Concept Note: The issue of Cultural Heritage has perplexed academia for a long time. As a combination of two mutually dependent words 'culture' and 'heritage', this term lends itself an aura that exudes a comprehensive and holistic approach towards everything that correlates to the fabric of social and cultural structure. An expression of the ways of living developed by a community and passed on from generation to generation, including customs, practices, places, objects, artistic expressions and values, 'Cultural Heritage' encompasses a plethora of tangible as well as intangible aspects of culture and human existence. UNESCO defines 'cultural heritage' as the entire corpus of material signs - either artistic or symbolic – carried over from the past to the posterity in each culture and, therefore, to the whole of humankind. This entails preservation and presentation of Cultural Heritage as a corner-stone of any cultural policy. At present the scope of the term has been broadened sufficiently to include tangible man made entities such as architectural complexes, archaeological sites and the natural environs as well as intangible aspects such as signs and symbols passed on by oral transmission, artistic and literary forms of expression, languages, ways of life, myths, beliefs and rituals, value systems, traditional knowledge and customary practices concerning nature and the universe as well as traditional craftsmanship. Transmitted from generation to generation and constantly recreated by communities and groups in response to their environment, 'Cultural Heritage' correlates to a dynamic paradigm that defies fossilization and mummification.

When applied to a state such as Tripura, the problematique of the paradigm increases manifold, since Tripura today is a confluence of several cultures, the ethnic and 'indigenous' tribal cultures of the state as well as the Bengali 'migrant' culture that is accused of 'influencing' and 'dominating' the former across years thus leading to a restructuring. This has also stimulated the former towards a cultural revival. And one cannot ignore other cultures such as those of 'Mainstream' India that today seem to make a dent in the cultural fabric of the state courtesy the political and electoral changes. The question is: how does Tripura negotiate these paradigms of 'Cultural Heritage'? What is the way out of these

bipolarities of 'Cultural Heritage' in a situation when the 'indigenous' and the 'migrant' cultural heritages are at crossroads with each other? Is 'Cultural Heritage' a monolithic and assimilative term that tends to bring all such traces under one 'umbrella'?

The seminar thus proposed would attempt at negotiating these issues at close academic quarters. The focus is not towards arriving at a simplistic solution, but to comprehend the dynamics of the problem that constitutes the 'Cultural Heritage' of Tripura.

Details of Organization:

1. Aiming at inter-disciplinarity in the true sense of the term, we encourage participants cutting across disciplines, who take a keen interest in Literature, Culture, Art, Craft, Traditions and Performances of Tripura.
2. Students and Research Scholars are encouraged to participate and share their views on the 'Cultural Heritage of Tripura' and all themes related to it such as:
 - a) The politics of Cultural Heritage- perspective Tripura.
 - b) Cultural Heritage and preservation-perspective Tripura.
 - c) Cultural Heritage and policy making-perspective Tripura.
 - d) Various manifestations of the Cultural Heritage of Tripura.
 - e) Cultural Heritage of Tripura in the age of digitization, animation and graphics.
 - f) Oral History, Performing and Visual art and Architectural tradition of Tripura.
 - g) Festivities, Rituals and Performances of Tripura.
 - h) Subsistence Pattern and Traditional Knowledge systems of Tripura.
 - i) Indigenous languages and their contribution to the Cultural Heritage of Tripura.
 - j) Role of the university in preserving, promoting and documenting the Cultural Heritage of Tripura.
 - j) Folklore and orature of the ethnic and the non-ethnic communities of Tripura.
 - k) Cultural heritage and pedagogy- perspective Tripura
 - l) Role of Museums in promotion/ revitalisation of Cultural Heritage of Tripura.

NB: The list is not exhaustive and would include every aspect of the Cultural heritage of Tripura.

Proposed Programs:

- 1. Plenary Speaking, Panel Discussions and Lecture -demonstrations.**
- 2. Seminar Business sessions.**
- 3. Cultural program and film screening.**

Submission and format (Abstract):

An Abstract specifying a broad area of not more than 300 words having 5 keywords must be created in MS word using Times New Roman font. The abstract may contain one or two figures if required.

Title of the Abstract: 14 pt., bold, centered.

Author, co-author: 12 pt.

Address: 12 pt., Text: 12 pt.

The Abstract may be sent as an e-mail attachment to parthasarathi@tripurauniv.in

The organisers intend to publish the papers in a edited compendium volume later.

Important Dates:

Last date for submission of abstracts	6th March, 2019
Date of intimation of acceptance	8th March, 2019

How to Reach:

Agartala has direct flights from Kolkata, Guwahati, and Imphal. Train services are also available from Delhi, Kolkata, Bangalore, Guwahati and Silchar. Bus and Sumo services also connect Agartala with Silchar, Guwahati, and Shillong. Tripura University is 5 km away from the Agartala Railway Station and 18 km from Agartala Airport.

Travel and Accommodation:

Due to paucity of funds, the organisers are not in a position to reimburse travel expenses of the participants/paper presenters (except Resource Persons). **However, participants can make arrangements for food (except for 2 seminar lunches) and accommodation at the Tripura University Guest House on a first come first served basis by directly contacting:**

Dr. R.K.Mahapatra
In-Charge, Tripura University Guest House,
Mail: rkmahapatra@tripurauniv.in
Mob: 6370478845/9861033680

Or,

Mr. Newin Mog
Assistant Manager, Tripura University Guest House,
Mail: newinmog@tripurauniv.in
Mob.8974857757.

and making necessary bookings and payments directly to the Tripura University Guest House as per TU Guest House rules and regulations.

On behalf of the organizers:

Dr. Partha Sarathi Gupta,
Assistant Professor,
Department of English,
Tripura University.
Joint Coordinator for the Seminar.

Prof Ashes Gupta
Department of English
Tripura University
Coordinator for the Seminar.



■ इन्दिरा गांधी राष्ट्रीय मानव संग्रहालय
INDIRA GANDHI RASHTRIYA MANAV SANGRAHALAYA
संस्कृति मंत्रालय, भारत सरकार का एक स्वायत्तशासी संस्थान ■ An Autonomous Organization of the Ministry of Culture, Government of India

No.F.6-7/2016-T.C.
Dated: 25th February, 2019

To,

Prof. Ashes Gupta
Asst. Professor & Coordinator
Department of English
Tripura University
Suryamani Nagar, Bikramnagar, Tripura 799022

Subject: Collaborative National Seminar on Cultural Heritage of
Tripura- regarding

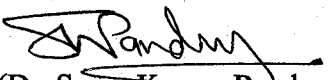
Sir,

Please refer to your letter no.nil, dt.18/2/2019 regarding tentative budget on the above mentioned seminar. In this regard I am directed to inform you that Director, Indira Gandhi Rashtriya Manav Sangrahalaya has sanctioned an amount of Rs.3,40,000/- (Rupees Three Lacs forty thousand only) for the collaborative organisation of the said seminar on 17th and 18th March, 2019. A logo of the IGRMS and Ministry of Culture is attached with this email for publicity purpose. Rest of the conditions will remain same as mentioned in our earlier letter of even no., dt.20th December, 2018 addressed to Vice-Chancellor, Tripura University.

An acceptance letter in this regard will be highly appreciated.

With regards,

Yours sincerely,


(Dr. Surya Kumar Pandey)
Officer-Incharge(TC)

Copy to:

The Vice-Chancellor
Tripura University
Suryamani Nagar, Bikramnagar, Tripura 799022

यह संग्रहालय काल और स्थल पर आधारित मानव जाति का दर्शाता है। ■ this museum depicts the story of humankind in time and space

पोस्ट बैग नं : 2, शामला हिल्स, भोपाल, म.प्र. । Post Bag#2, Shamla Hills, Bhopal-462013, M.P.

फोन/ Phone : Director: +91-755-2661458; Office: +91-755-2526536, 2526555; Exhibitions: +91-755-2661069, 2661670; Library: +91-755-2661290; PRO: +91-755-2661319;

ईमेल/ Emails: directorigrms@gmail.com; dirigrms-mp@nic.in; jdigrms@gmail.com; फैक्स/Fax : +91-755-2665500; http://igrms.gov.in

Department of Sociology , Tripura University
cordially invites you to
One Day Workshop
on
NVivo 12Plus Qualitative Data Analysis Software
An Approach to analyse and manage large and diverse volumes of Qualitative Data

By
Prof. Krishnamurthy Prabhakar,
Professor in Centre for Social Initiative & Management, Chennai
&
Nvivo Team

Venue: Conference Hall, 1st Floor, Library Building
Time: 10:00 a.m. to 5:00 p.m.
Date: 19th Feb., 2020

Organising Secretary-Parama Chakma

Convener- Dr. Rajeev Dubey







त्रिपुरा विश्वविद्यालय

TRIPURA UNIVERSITY

(केन्द्रीय विश्वविद्यालय / A Central University)

सूर्यमणिनगर, अमरतला / Suryamaninagar, Agartala

त्रिपुरा(प.) / Tripura (W), पिन/PIN – 799022, भारत/ INDIA

No. TU/REG/G-Admin/04/2015(Vol-III)



दूरभाष / Phone : (0381) 237 9003,
237 4803,

फैक्स / Fax : (0381) 237 4802/3

ई-मेल / E-Mail: registrar@tripurauniv.in

वेबसाइट / Website : www.tripurauniv.in

Date: 19th September, 2019

NOTIFICATION

It is notified for all concerned that there will be a 'Regional Vaidic Sammelen, 2019' from 20th-22nd September, 2019 organized by Department of Sanskrit, Tripura University.

The Hon'ble Vice-Chancellor of Tripura University will be inaugurating the programme at 11.00 a.m on 20.09.2019 in the Academic Building –XI, Hall-2 (Big).

All interested Faculty members, Officers, Research Scholars & Students are requested to participate in the programme.

(Prof. S.Banik)
Registrar(i/c)

Copy to:-

1. The Dean, Faculty of Science/Arts & Commerce, Tripura University
2. The Director, CDC, Tripura University
3. The Controller of Examinations, Tripura University
4. The Director, DDE, Tripura University.
5. The Head/Head (i/c), Dept. of.....
6. P.S. to the Vice-Chancellor, Tripura University.
7. Tripura University website/Notice Board.

सांस्कृतिक कार्यक्रम उपसमिति

डा. उत्पल विश्वास
डा. अजय कुमार
श्री पार्थ सारथी शील

वित्त उपसमिति

श्री बिवेक कुमार मिश्र
डा. शंकर नाम तिवारी

आवश्यक सूचनाएँ :

शोधपत्र प्राप्त होने की अन्तिम तिथि
15.09.2019
पंजीकरण निःशुल्क।

सम्पर्क सूत्र :

डा. शंकर नाथ तिवारी -
8787345469 / 9862754522
Tiwarishankar29@gmail.com
श्री पार्थ सारथी शील -
9013742031
parthasarathisil@tripurauniv.in



“क्षेत्रीय वैदिक सम्मेलन” 2019

दिनांक : 20, 21 एवं 22 सितम्बर 2019

(त्रि-दिवसीय सम्मेलन)

उद्घाटन : 11 बजे, दिनांक : 20.09.2019

संस्कृत विभाग, त्रिपुरा विश्वविद्यालय, सूर्यमणिनगर द्वारा आयोजित

आर्थिक सहयोग : महर्षि-सन्दीपनि-राष्ट्रिय-वेद-विद्या-प्रतिष्ठान, उज्जैन

प्राच्यविद्या संस्कृत प्रतिष्ठान, असम

आयोजन-स्थल - सभागार-02, भूतल,

अकादमिक भवन-11,

त्रिपुरा विश्वविद्यालय, सूर्यमणिनगर

प्रधान संरक्षक

प्रो. विजयकुमार लक्ष्मीकान्त राव धारुकर,

माननीय कुलपति

त्रिपुरा विश्वविद्यालय

सलाहकार समिति

कुलसचिव, त्रिपुरा विश्वविद्यालय

प्रो. चन्द्रिका बसु मजुमदार,

संकाय प्रमुख, कला एवं वाणिज्य

त्रिपुरा विश्वविद्यालय

प्रो. सत्यदेव पोद्दार,

परीक्षा नियन्त्रक

त्रिपुरा विश्वविद्यालय

डा. अलक भाट्टाचार्य,

सी. डी. सी

त्रिपुरा विश्वविद्यालय

प्रो. एम. के. सिंह,

रसायन विभाग, त्रिपुरा विश्वविद्यालय

संयोजक

डा. शंकर नाथ तिवारी,

सहायक प्राध्यापक

संस्कृत विभाग

त्रिपुरा विश्वविद्यालय



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070
Website: www.aicte-india.org



AICTE TRAINING AND LEARNING (ATAL) ACADEMY

F.No. 01/AICTE /ATAL-HQ/2019-20

Date - 20 August, 2019

To

**The Coordinator,
(ATAL Academy Programme)**
Tripura University
Tripura
Name of the Co-ordinator :Alak Roy
Mobile No. : 9436243766
Email ID : alakroy@tripurauniv.in

Sub: Release of a sum of Rs. 1,62,000/- for AICTE Training and Learning (ATAL) Academy programme- reg.

Sir/Madam,

This is to convey the sanction of the Council for payment of **Rs. 1,62,000/- (Rupees One Lakh Sixty-Two Thousand Only)** for conduct of AICTE Training And Learning (ATAL) Academy programme **Data Sciences** to **Tripura University** under AICTE Training And Learning (ATAL) Academy.

This fund is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

- The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- The cost for conducting per programme will be Rs.1,62,000/- as per detail given as under:

1.	Honorarium for Director/Vice-chancellor/Head of Institution	Rs. 10,000/-
2.	Honorarium to Coordinator Rs.2000/- per day × 5 days	Rs. 10,000/-
3.	Honorarium for experts (Rs.3000 per session for total 14 session)	Rs. 42,000/-
4.	Refreshment & Lunch (Rs. 300 per head for 50 trainees for 5 days)	Rs. 75,000/-
5.	Institutional charges	Rs. 15,000/-
6.	Miscellaneous charges	Rs. 10,000/-
	TOTAL	Rs. 1,62,000/-

- The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted by the University/College/Institution.

II. Disbursement of funds to institutions

The full amount of the grant sanctioned will be released as an advance to the University/Institute through electronic transfer on the account of the University/Institute after submission of mandate form

III. Conduct of test and issuance of certificate

- A test shall be conducted by coordinator at the end of the program.
- The certificates shall be issued to those participants who have attended the program without any absenteeism and scored minimum 60% marks in the test.

IV. Submission of documents by university/institution

- a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program: -
 - (i) List of candidates who have successfully completed the program on the basis of the test conducted by Program Coordinator.
 - (ii) A program completion report along with photographs, videos, media report is to send after the completion of workshop along with the list of participants and Utilization Certificate, Expenditure Statement and feedback form etc. within one month of conduct of **AICTE Training And Learning (ATAL) Academy programme**.
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall be adjusted.

V. General Instructions

- a. **Participants have to be faculty of AICTE approved institutions/ Host Institution/ Research Scholar/PG Scholar.**
- b. **If programme is not conducted in the year 19-20, the released amount, along with interest accrued thereon, has to be returned back to AICTE.**
- c. **Any extra money required to complete the programme must be borne by the institute from their own resources but the quality of the activities should not be compromised.**
- d. **Any unavoidable circumstantial change in the Program with respect to name of Project Coordinator, Venue and date for organizing AICTE Training and Learning (ATAL) Programme would mandatorily require prior approval of the Council. All such requests should be addressed to ATAL Academy, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council.**
- e. **This Sanction Order may be treated as Offer Letter for all purposes.**

Yours Sincerely,



(I/C ATAL Academy, Guwahati)

Copy forwarded for information and necessary action to: -

1. **Coordinator ATAL Programme**
2. **ATAL Academy Cell AICTE HQ**
3. **Guard File**



Certificate of Participation

SUNIL KALAI

has successfully participated in a
SPW & LIGHTING WORKSHOP


From : 26th November to 3rd December, 2019

Organised by

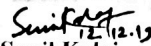
**Dept. of Journalism and Mass Communication
Tripura University**

Conducted by

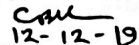
**Balakrishnan Diwakar
Rtd. Professor
AJK, MCRC
Jamia Millia Islamia, New Delhi**


12/12/19

**B. Diwakar
Rtd. Professor
AJK, MCRC
Jamia Millia Islamia, New Delhi**


12/12/19

**Sunil Kalai
HOD (I/C)
Department of JMC
Tripura University**


12-12-19

**Prof. Chandrika Basu Majumder
Dean
Faculty of Arts & Commerce
Tripura University**



INTERNATIONAL WEBINAR

On Drug Discovery & Drug Development

Organized By:

Department of Pharmacy, Tripura University (A Central University), Suryamaninagar, Tripura (W), India

Date & Time:

27th-28th August 2020

11:30 AM — 05:30 PM (IST)

Click For Registration:

<https://shorturl.at/fxDGR>

Streaming Platform:

Google Meet

Participation:

Free e-Certificates will be issued to registered participants.

(Limited to 200)

Closing Date for Registration is 25th August 2020

Speakers



Dr. Alexandra Paulo

*Professor Habilitation
iMed-ULisboa, Faculty of Pharmacy,
University of Lisbon, Portugal*



Dr. Daniel J. Canney

*Associate Professor, School of Pharmacy,
Temple University, Philadelphia, USA*



Prof. Ranju Bansal

*University Institute of Pharmaceutical Sciences,
Panjab University, Chandigarh, India*



Prof. Prashant S. Kharkar

*Institute of Chemical Technology (ICT),
Mumbai, India*



Dr. Richie R. Bhandare

*Assistant Professor, College of Pharmacy and
Health Sciences, Ajman University, UAE*



Dr. Afzal Basha Shaik

*Associate Professor, Vignan Pharmacy College,
Guntur, Andhra Pradesh, India*

Chief Patron

Prof. Ganga Prasad Prasain
Hon'ble Vice-Chancellor

Patron

Prof. S. Banik
Dean, Faculty of Science

Convenor and Organizing Secretary

Dr. Pratap Chandra Acharya
Assistant Professor, Department of Pharmacy

Members

Shri Rajat Ghosh
Dr. Kuntal Manna
Shri Harjeet Nath

Dr. Ashwini Chauhan
Dr. Bipin Sharma

Prof. Samir Sil
Dr. Utpal De
Dr. Surajit Bhattacharjee

**TWO DAY INTERNATIONAL WEBINAR
ON
DRUG DISCOVERY AND DRUG DEVELOPMENT**

Date: 27th-28th August 2020

Programme Schedule

Day 1		
Date: 27th August 2020		
Time	Speaker	Title of the talk
11:30AM-11:45AM	Inaugural Session	Inaugural speech by Prof. Ganga Prasad Prasain, Hon'ble Vice-Chancellor, Tripura University
12:00Noon-1:00PM	Prof. Ranju Bansal UIPS, Panjab University Chandigarh, India	Combinatorial chemistry: A novel approach in drug discovery
2:00PM-3:00PM	Prof. Prashant S. Kharkar Institute of Chemical Technology, Mumbai, India	Fascination in Computer Aided Molecular Design and Emergence of Machine Learning
4:30PM-5:30PM	Dr Daniel J. Canney Associate Professor, School of Pharmacy, Temple University, Philadelphia, USA	Lead modification approaches in the design of GPCR ligands in an academic drug discovery environment
Day 2		
Date: 28th August 2020		
12:00Noon-1:00PM	Dr Afzal Basha Shaik Associate Professor, Vignan Pharmacy College, Guntur, Andhra Pradesh, India	Exploring novel 1,5-benzothiazepine derivatives as prospective anticancer agents through EGFR tyrosine kinase inhibition
2:00PM-3:00PM	Dr Richie R. Bhandare Assistant Professor, College of Pharmacy and Health Sciences, Ajman University, Ajman, UAE	Identification of ligands for alpha-receptors: Journey from Muscarinic to Adrenergic
4:30PM-5:30PM	Dr Alexandra Paulo Professor Habilitation iMed.Ulissboa, Faculty of Pharmacy, University of Lisbon, Portugal	Targeting Quadruplex Nucleic Acids for Cancer Therapy



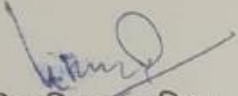
राष्ट्रीय संगोष्ठी
हिन्दी-विभाग, त्रिपुरा विश्वविद्यालय
एवं

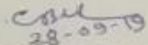


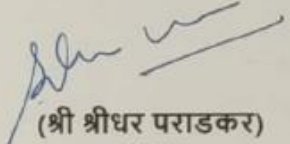
अखिल भारतीय साहित्य परिषद्, नई दिल्ली

“पूर्वोत्तर भारत का भक्ति-साहित्य” प्रमाण-पत्र

प्रमाणित किया जाता है कि डॉ. मिलन रानी जमातिया, सहायक प्राध्यापक, हिन्दी विभाग, त्रिपुरा विश्वविद्यालय ने “पूर्वोत्तर भारत का भक्ति-साहित्य” विषय पर दिनांक 27-28 सितंबर, 2019 को हिन्दी-विभाग, त्रिपुरा विश्वविद्यालय एवं अखिल भारतीय साहित्य परिषद्, नई दिल्ली के संयुक्त तत्वावधान में आयोजित दो-दिवसीय राष्ट्रीय संगोष्ठी के संयोजक (Convener) का दायित्व सफलतापूर्वक निर्वहन किया।


(श्री ऋषि कुमार मिश्र)
राष्ट्रीय महामंत्री
अखिल भारतीय साहित्य परिषद्, दिल्ली


(प्रो. चंद्रिका बसु मजूमदार)
अधिष्ठाता, कला एवं वाणिज्य संकाय
त्रिपुरा विश्वविद्यालय


(श्री श्रीधर पराडकर)
अध्यक्ष
अखिल भारतीय साहित्य परिषद्, दिल्ली

REGISTRATION DETAILS

Interested candidates are advised to fill the registration form and email scanned copy of the followings to sabyasachidasgupta@tripurauniv.in. Participants will receive an acknowledgement on acceptance of their application over mail. Registration will include Registration Kit, Certificate, Tea and lunch.

WHO CAN ATTEND

Interested Faculty members, Research Scholars who are pursuing research or willing to research and PG Students are the targeted audience of the workshop.

How to Reach Tripura University

Tripura is well connected with Gauhati, Silchar and Shillong by road. Agartala, the state capital is also directly connected with Gauhati, Kolkata, Delhi, Chennai by air. Railway communication is also available between Kolkata, Gauhati, Bangalore, New Delhi and Agartala. A daily bus service from Kolkata to Agartala is also available for which a transit visa is needed through Bangladesh. Tripura University is situated about 5km away from the Agartala rail station and 20 km away from Agartala airport.

ABOUT THE DEPARTMENT

The Department came into being in Sept., 2011 under the Faculty of Science to emerge as a Centre of Excellence in Forestry and Biodiversity Conservation and Management. It strives to deal with solution based forestry research in tune with the emerging issues in the sector. The Department also assists in the transfer of technology to the users viz, farmers/orchardists, state forest departments and different voluntary organizations.

ORGANISING COMMITTEE

Patron
Prof. Sangram Sinha
Hon'ble Vice Chancellor
Tripura University

Convener
Dr. Sabyasachi Dasgupta
Dept. of Forestry and Biodiversity

Advisory committee
Dr. D. K. Sharma, IFS, Addl. PCCF, Govt. of Tripura
Prof. Sukanta Banik, Dept. of Zoology, TU
Prof. R. K. Sinha, Dept. of Botany, TU
Prof. A. K. Saha, Dept. of Botany, TU
Prof. B. K. Dutta, Dept. of Botany, TU
Dr. Debashis Sen, College of Agril., Govt. of Tripura

Members of Organising Committee
Dr. Bimal Debnath, Dept. of Forestry and Biodiversity
Dr. Sourabh Deb, Dept. of Forestry and Biodiversity
Dr. Thiru Selvan, Dept. of Forestry and Biodiversity
Dr. Samrat Goswami, Dept. of Rural Studies



Workshop on
"Economic valuation
of Bio-resource"
30th Sept. & 1st Oct. 2019



ORGANISED BY
DEPARTMENT OF
FORESTRY AND BIODIVERSITY
TRIPURA UNIVERSITY
Suryamaninagar, Tripura



SPONSORED BY
TRIPURA BIODIVERSITY BOARD
Government of Tripura

REGISTRATION FORM

Workshop on Economic Valuation of Bio-resource (30th Sept & 1st Oct. 2019)

- Name.....
Designation.....
- Name of Affiliation
- Sex: (Male/Female)
- Address for Correspondence.....
.....
- Mobile No.....
- E-mail ID.....

Food: Veg / Non-veg

Will you deliver a talk/present a paper?
(Yes or No)
If yes, Title of the talk /paper.....
.....
Accommodation required (YES/NO).....

Date..... (Signature)

Accommodation

Accommodation can be arranged for external participants with prior information at Tripura University Guest House on Payment basis (Subject to availability).
Separate TA/DA will not be provided to any participants.



ABOUT TRIPURA UNIVERSITY

Taking into consideration the long cherished demands of the students community, 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 the first University in the state came into being on 2nd October 1987. The dreams of thousands of people were at last fulfilled. Later, Tripura University has been converted to a central university on 2nd July 2007 under the Tripura University Act 2006 as enacted by the parliament. A total number of 42 courses are run under the University, which includes certificate courses, Under Graduate, Post Graduate Diploma and Post Graduate Studies. In addition to this, PhD programmes are also offered in 33 subjects. The number of affiliated colleges at present is 46 among which there are 23 Degree Colleges, 17 Professional Colleges, 4 Paramedical and Nursing College and 2 Medical College.



BIORESOURCES

Biodiversity has a fundamental value to humans because we are so dependent on it for our cultural, economic and environmental well-being. Biodiversity forms the backbone of viable ecosystems on which we depend on for basic necessities, security and health. Biodiversity has proven to hold enormous value when adapted for use in health, agricultural or industrial applications. Biodiversity has significant economic value that is both implicit and explicit. Most of these values are often not captured by the market. Hence, the goods and services derived from biodiversity experience market failure. The economic value of biodiversity also has its place in the policy-making process.

One of the key issues that will emerge as a critical challenge for countries intending to operationalize the Nagoya Protocol on ABS at national level would be to assess the economic and related potential of resources before arriving at an appropriate mechanism of benefit sharing. In the absence of knowledge on the economic potential of resources, it is possible that the negotiations on benefit sharing between the provider and user could be skewed and biased. In this circumstances this workshop will be fruitful in strategizing the appropriate valuation techniques of bioresources.



औषध विभाग
Department of
Pharmaceuticals



Outreach Programme

Venue : Department of Forestry and Biodiversity
Tripura University

Date: 13th March 2020

Organized by

**Bio-NEST, National Institute of Pharmaceutical Education and Research
NIPER- Guwahati, Changsari, Assam**

&

**Department of Forestry and Biodiversity, Tripura University, Agartala,
Tripura 799022**

Supported by

**Biotechnology Industry Research Assistance Council (BIRAC),
Department of Biotechnology (DBT),
Government of India (GOI)**

Outreach program
At Tripura University, Agartala, Tripura
Organised by
Bio-NEST, NIPER-Guwahati Incubation Center
&
Department of Forestry & Biodiversity

**Local Organizer: Dr. Bimal Debnath, Department of Forestry & Biodiversity,
Tripura University, Agartala, Tripura**

Venue: Auditorium-1 academic building 11

Date: 13th March 2020

Programme Schedule

Time	Event	Presenter
11:00 – 11:30	Registration	Team: NIPER-Guwahati
11:30 – 11:40	Welcome Address	Dr. Bimal Debnath Department of Forestry & Biodiversity Tripura University,
11:40 – 11:50	Inaugural speech	Dr. Sabyasachi Dasgupta Head, Department of Forestry & Biodiversity, Tripura University
11:50 – 12:20	Introduction to the Program and its future goal	Dr. Sonali Roy Incubation Manager Bio-NEST, NIPER-Guwahati Incubation Center
12.20 – 12.30	Interaction with the participants	
12.30 – 12.45	Awareness campaign on uses of herbal medicine	Shri Datta Maroti Pawde Research Scholar (JRF) NIPER-Guwahati
12.45 – 1.00	Group Photograph, Collection of feedback form and Refreshment	
1:00 – 1:15	Distribution of Certificates and Vote of Thanks	

An outreach program of Bio-NEST NIPER-Guwahati in collaboration With the Department of Forestry and Biodiversity, Tripura University, Agartala, Tripura

1. Brief write up about the Outreach program

Outreach program in the different state of North East India conducted by Bio-NEST NIPER-Guwahati Incubation Center to create the awareness and encouragement among the students, researchers, traditional healers, and other potential candidates to come up as an entrepreneur. The main objective is to develop an entrepreneurship ecosystem in NER which is also a goal of BIRAC-DBT, so that the huge bio-resource of NER can be utilized in a sustainable manner and subsequently develop the economy of the region. It is well known that there is no dearth of ideas among the fellow Indians, but the main problems are Mindset, Mentoring, Money and the Market Access. Through this program, we are trying to change the mindset and come up as an incubatee, so that, we can mentor them, help them to get a grant from different funding agencies to develop the product, and connect them with proper stakeholder to access the market.

2. What is the utility

The biotech/ healthcare sector startups need incubation support of a different kind. They need a place for developing the prototype of their products by having access to high-end laboratory equipment, and also mentorship and support on technical, regulatory, and financial aspects. Bio-NEST NIPER Guwahati with its state of the art instrument facility and the pool of mentors from the different field is providing that support to the incubatee in their project. Through this outreach program, we are trying to create the attitude of the participants to come forward and transform their dream in reality. They can contact Bio-NEST, NIPER-Guwahati at any moment for support.

3. How Local people will be beneficial

The students, researchers, traditional healers and budding entrepreneurs of Tripura can incubate their innovative ideas/products at the center and can develop their venture/ company. The experts from Tripura may join as mentors/advisers so that incubatees become more confident to come up as innovators. These incubatees will come up as a successful entrepreneur and will become an employer instead of job seekers and contribute to the economic development of the region. The center is also open for students from other parts of North Eastern organization, startup companies, and qualified citizens with Bio/ Pharma/ health care related subjects to incubate there project.

4. Any recent scope of work?

At present several schemes are available for the startups and incubate from different agencies. Some of them are

- i) Startup Grant from Indian Institute of Entrepreneurship, Guwahati Assam (ii) NABARD (iii) MSME(iv) Startup grant from the different state government

5. Since sanctioning of this program, outreach arranged so far?

Till date, NIPER, Guwahati arranged this program at

- i) **Majuli, Assam on December 6th 2019.** Folk Medicine Healers Association of Assam was the local organizer. More than 95 traditional healers from different districts of Assam and Arunachal Pradesh participated in the program.
- ii) **Imphal, Manipur on 15th February 2020** in association with All Manipur Women Entrepreneur association, and Agri-Business Incubator (ABI) of Manipur. About 47 young entrepreneurs joined the program and exhibit their innovative product and show their keen interest to become as incubate at Bio-NEST, NIPER-G.
- iii) **Shillong, Meghalaya on 24th February 2020** in collaboration with North-Eastern Hill University, Shillong, Meghalaya. All together 50 students, traditional healers, and entrepreneurs joined the program and show their keen interest to become as incubatee at Bio-NEST, NIPER-G. Registrar NEHU and S&T Director NEC also grace the program.
- iv) **Itanagar, Arunachal Pradesh on 2nd March 2020** in association with CSIR-North East Institute of Science and Technology, Itaanagar Branch. 73 local students and faculties including tribal entrepreneurs joined the program and interact with the organizers. Senior SP, Capital City Itanagar and Director, APRB-RSETI grace the program.

NIPER, Guwahati is also going to organize the program at

- i) Gangtok, Sikkim on 19th March 2020 in association with State Forest Management Board, Sikkim
- ii) Dimapur, Nagaland on 27th of March, 2020 in association with Community Health Initiative, Dimapur

IIC TRIPURA UNIVERSITY



Hands on workshop on Techniques of Molecular Biology & Cell Culture

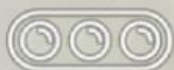
31st January – 3rd February, 2020

Key note speaker in the inaugural program: **Prof. Anirban Chakraborty**, Deputy Director,
NITTE University Centre for Science Education and Research, Karnataka.

Title: Digital PCR: Redefining the concept of DNA-based approaches in cancer research.

Date: 31.01.2020 Venue: Library Seminar Hall Time: 11:00 am

Workshop organised by: **Prof. Samir Kumar Sil**



Samsung Triple Camera

Shot with my

Galaxy Note10 Lite

Extension and outreach programs conducted

2015-16



Report submission for NAAC



“ ”



DEVELOPMENT GRANT

011



Department of Sociology, TRIPURA UNIVERSITY

(A Central University)

Suryamaninagar - 799022, Tripura (W), INDIA

No. FTU/ SO ET/2/2016

Date: 27.04.2016

To

The Finance Officer
Tripura University
Suryamaninagar - 799022
Tripura, India

Sub: Bill Adjustment of advance for organizing Educational Tour, to participate and study the tribal religious festival on 20.04.2016

Dear Sir,

With respect to the subject cited as above, I would like to submit the Adjustment of (Rs.5000/- Five Thousand only) against advance received for Educational Tour to Bagma Village in Udaipur, South Tripura, to participate and study the tribal religious festival on 20.04.2016, as part of the M.A. Syllabus, 4th Semester Dissertation Project. The detail expenditure regarding felicitation, refreshment and other necessary expenses is enclosed in Annexure-A along with original receipt for your kind perusal.

Thanking you for the immediate grant to organize the program which was a great success. Also, I would request you to reimburse the extra amount of Rs. 590.50/- (four hundred and ninety rupees and fifty paise) which I paid for the purpose.

Enclosed: As Stated

Sincerely yours,

Shri Oct 27/04/16
Dr. Sharmila Chhotaray
Head In-charge
Assistant Professor
Department of Sociology



Education tour to Bagma Village, Udaipur, Tripura. This visit was done as a part of M.A. syllabus under 4th Semester Dissertation Project. A total of 60 students participated in the tour.





Inaugural Ceremony of Digital India Programme

Digital India Workshop-2016

Under the sponsorship of National e-Governance Division (NeGD), Department of Electronics and Information Technology, Ministry of Communications and Information Technology, Government of India, NSS Unit, Tripura University organised Digital India programme under the sponsorship of National e-Governance Division (NeGD), Department of Electronics and Information Technology, Ministry of Communications and Information Technology, Government of India for the NSS Volunteers of University, selected Colleges and Institutes on 3rd March, 2016 at 10:30 am in the Maharaja Birbikram Stabarshiki Auditorium, Tripura University. The objective of these workshop was to generate/enhance awareness about Digital India, to train volunteers on Digital India and related schemes/services, to engage students in Digital India activities and spread messages among academia and citizens and to create a pool of Digital India Volunteers to engage them with DI related activities which can be utilized by various government departments/ministries. Mr. Suhas Ranjan, Consultant, NeGD, GoI, was the resource person of this programme.

240 participants from different colleges of Tripura (200 NSS Volunteers, 20 NSS Program Officers, 20 Others which includes speakers, university representatives etc) including organizing members participated in this programme. These participants will act as Master Trainer and, a certificate was provided to them upon successful completion/participation in the workshops.

8-Days Special Camp-2016 of NSS (6th to 13th May, 2016):



The NSS Unit, Tripura University conducted 8-Days NSS Camp from 6th to 13th May, 2016. The various activities were covered under the this programme like Health Camp, Digital India Camp, Blood Donation, Swayacha Bharat Aviyan, Sticker Pasting, Road Awareness Camp, Vanomohatsav, Tree Plantation, Village visit and Scientific Magic on Science Awareness. Prof. Anjan Kr. Ghosh, Hon^{ble} Vice-Chancellor, Tripura University inaugurated the NSS Camp on 6th May, 2016, in presence of Dean Students Welfare(i/c), senior professors, faculties, students and volunteers of NSS Unit, TU. 100 students were a part of the Camp.

Blood Donation Camp- 2016



Volunteers of NSS Unit, Tripura University have successfully completed the Blood Donation Camp, held on 8th May, 2016 at MBBSBB (Auditorium), Tripura University.

Success Rate: 74% of target achieved out of 100 donors. The Volunteers of NSS Unit, Tripura University have arranged the entire programme and all credit goes to them. The Volunteers have taken the responsibilities to make it splendid success. The Volunteers have taken help of NSS national portal, Internet, IEC method, Department visit, oral communication to reach to the all students, teachers and non-teachers of the University and the Registrar, Tripura University sent notification of this programme to the all departments.

The benevolent donors have received the followings:

1. Tiffin (one glass Glucon-D mixed water, one glass hot milk, one sweets, one boiled egg and one Banana)
2. One PEN as token of love

Highest number of students from Commerce Department donated blood where the teachers mainly Dr. Chinmoy Roy helped a lot to motivate the students.

This is my humble submission to you that a proposal came from the Volunteers of NSS Unit, Tripura University to acknowledge the contribution of blood donors of the first three departments by awarding with a Memento in the Annual Cultural Programme of Tripura University.

Health Camp



NSS volunteers conducted health camp for all students, teachers of the University. Blood group of the participants was identified at free of cost and BMR also checked. Total of 150 students participated in the health camp.

Health Education



Prof. A. R. Banerjee, Professor of Anthropology, Calcutta University Dr. Diptendu Chatterjee, Asst. Professor, Dept. of Anthropology, Calcutta University, have delivered lectures on 11th May, 2016 as a resource person in the NSS Camp on “Health Related Issues”, organized by the NSS Unit, Tripura University, funded by the Ministry of Youth Affairs, Government of Tripura, at Tripura University from 6th to 13th May, 2016. 85 students were a part of the program.

Scientific Magic on Science Awareness



NSS volunteers conducted one awareness programme on science magic for the volunteers. 95 participants were a part of the programme.

Vanomohatsav Programme



Organized by NSS Cell TU. Various tree plantation drives were carried out by a team of 20 students.

Yoga Day



NSS Unit, Tripura University has conducted International Day of Yoga in collaboration with Department of Physical Education, Triapura University on 21st June, 2016. 125 students participated in the program

**Extension and outreach programs conducted
2016-17**



Report submission for NAAC



Local industry tour organized in Association with Pran Beverages Limited. This tour was organized in the year 2017 as a part of M.B.A. curricula and 59 students were a part of the visit.



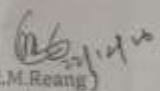
Date:- 22.12.2016

DEPUTATION ORDER

The under mentioned Faculty members and Staff are hereby deputed with the 3rd Semester students of MBA of Department of Business Management for Industrial Visit.

Sl. No.	Name & Designation	Deputation Period	Venue
01.	Dr. Debarshi Mukherjee, Associate Professor, Deptt. of Management	03.01.17 to 13.01.17	Delhi, NCR
02.	Nirmalya Debnath, Assistant Professor, Deptt. of Management	03.01.17 to 13.01.17	Delhi, NCR
03.	Smt. Rina Ghosh, UDC, Controller of Examinations	03.01.17 to 13.01.17	Delhi, NCR

This is issued with the approval of the Vice-Chancellor, Tripura University.


(M.M. Reang)
Joint Registrar

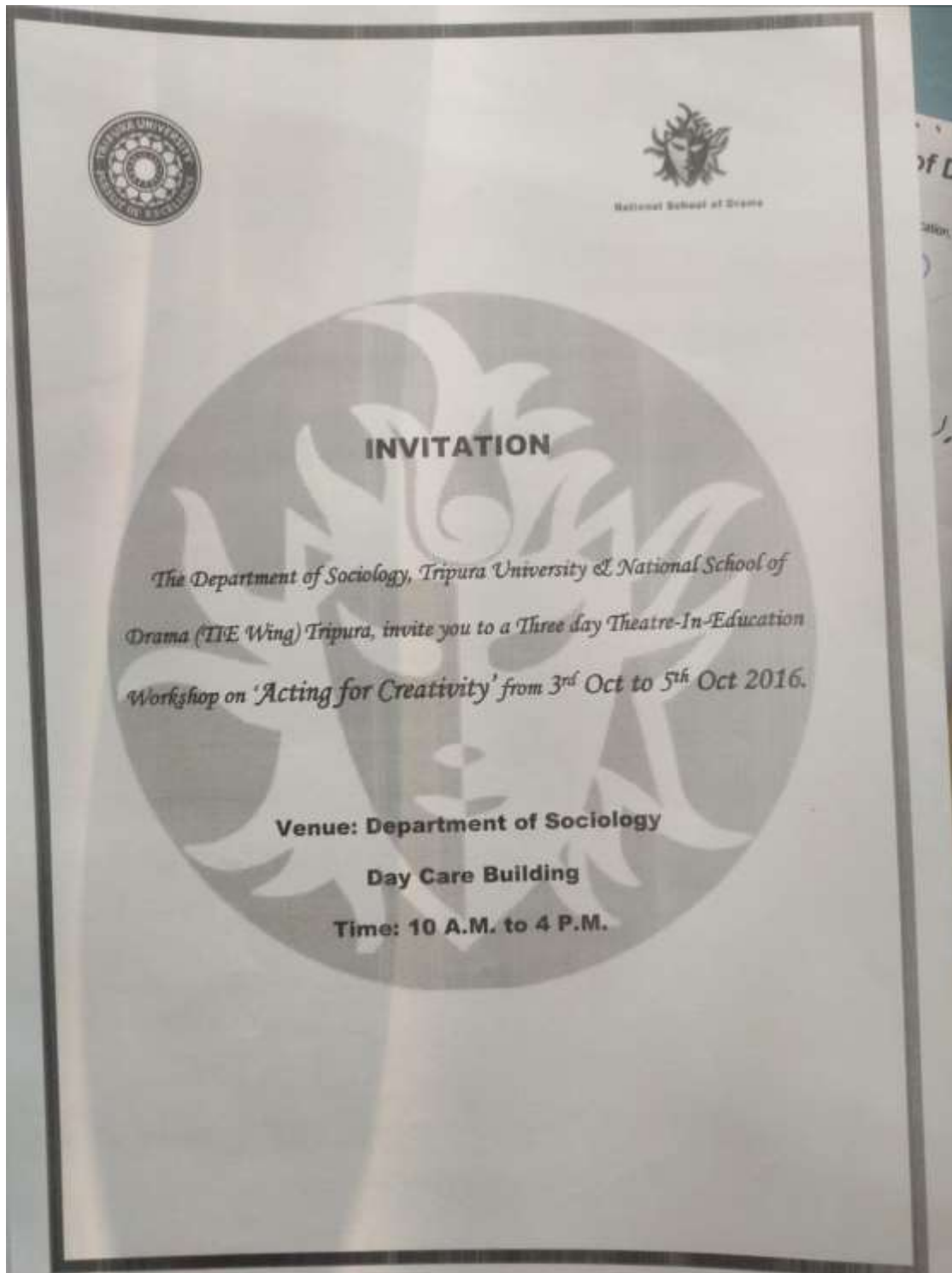
To

1. Dr. Debarshi Mukherjee, Associate Professor, Deptt. of Management, T.U.
2. Sri Nirmalya Debnath, Assistant Professor, Deptt. of Management, T.U.
3. Smt. Rina Ghosh, UDC, Controller of Examinations, T.U.

Copy to :-

1. The Dean of Arts & Commerce, Tripura University.
2. The Dean of Science, Tripura University.
3. The Finance Officer, Tripura University.
4. P.S. to the Vice-Chancellor, Tripura University.

10 days Outbound Industry tour at NCR 2017. The team visited Expo mart, Anmol, Uflex (photographic), Graziand, ABP News studio, C&S Cefasec, Wipe India, Afflatus Gravures Pvt. Ltd., A total of 60 students were a part of the tour



TU in collaboration with NSD TPE Wing Tripura organized 3 days Theatre in Education workshop on the theme “Acting for Creativity” during the year 2016.

This workshop was attended by 50 participants.

NSS Unit in Tripura University has been involved in several activities throughout the year (2016-2017)

The National Council of Rural Institutes (NCRI) in the Higher Education Department of the Ministry of Human Resource Development aims at Human Resource Development and Capacity Building of formal Institutes and universities in the country to address the issues concerning Engagement of Higher Education in Rural India. The

above mentioned programme was one of the main objectives Unnat Bharat Abhiyayaan of MHRD considering the recommendation of NAAC (National Assessment and Accreditation Council) regarding community

engagement of students and universities and need to evince keen interest in Rural Community Engagement.

To fulfil the above objective, NSS Coordinator has participated two day intensive workshop on 6-7th March, 2017 at NCRI, Hyderabad for preparing 1. A road map for our future collaboration in this regards 2. Preparation of draft project proposal for UGC's Centre for Fostering Social Responsibility and Community Engagement in University.

Supporting Link: Tripura University Annual Report 2016-2017
(https://www.tripurauniv.ac.in/UploadFile/AdminPanel/AnnualReport_AnnualAccount/10f9a59f-cd8d-4490-8961-035d6a8aae51.pdf)

Othe NSS Activities:

The NSS volunteers are engaged in daily activities as per the mandate of Youth Affairs, Govt. of India and Govt. of Tripura. The volunteers were engaged in their daily activities like road repairing (NH-44), panchayat visit, work with the villagers in swacha bharat aviyan, awareness programme in the villages on digital India programme, participation in awareness programme on women conducted by the PRI and these all have been completed during their even semester.

- 10.1. The volunteers had undertaken an impressive work where the volunteers were engaged consecutive five days (6th to 10th April, 2017) and repaired NH-44 in front of Tripura University which was in miserable condition for the vehicles and could have been dangerous to the students.
- 10.2. The volunteers was also participated in a awareness programme on 'Girl Child' organised by the local NGO in collaboration with Suryamaninagar GP, Dukli Block, Tripura, on 27th Apr., 2017.
- 10.3. The volunteers of NSS Unit, Tripura University have visited all adopted villages of Tripura University for generating awareness among the villagers on swacha bharat aviyan (1st to 15th Sept., 2016) where the teachers of different department of Tripura University have helped a lot as guide. The volunteers were categorised in different groups and every day (6th Sept., to 11th Sept., 2016) the volunteers' group was assigned work alongwith two to three teachers to visit separate villages for conducting the programme.
- 10.4. The volunteers of NSS Unit, Tripura University had executed the awareness cum survey programme on VISAKA, MHRD, Govt. of India from 14th January, 2017 onwards in the various rural development blocks of Tripura. The volunteers have filled in 787 forms prescribed by the concerned authority. One training programme was also organised for the above said programme to sensitise the volunteers of NSS Unit, Tripura University on 3rd January, 2017.

Road Repairing:



Working with the Panchâyat:



Swacha Bharat Avivan:



Visaka Training Programme:



Visaka Campaign:



Visaka Home Visit used prescribed format for awareness:



Vanomohatsav & World Environment Day:



Blood Donation Camp- 2017

Volunteers of NSS Unit, Tripura University have successfully completed the Blood Donation Camp, held on 8th June, 2017 at Auditorium-1, Building No.-11, Tripura University.

This year blood donation camp was organised in the summer vacation on request from state blood bank centre. The volunteers had given their best effort to conduct the programme and eventually they convinced 60 donors among themselves to donate blood. The Blood Bank, Govt. of Tripura gave their special thanks to the NSS Volunteers of Tripura University and specially the administrators of Tripura University for extending helping hand at the time of acute blood crisis in the state by conducting blood donation camp in the Tripura University.

The Volunteers of NSS Unit, Tripura University have arranged the entire programme and all credit goes to them. The Volunteers have taken the responsibilities to make it splendid success. The Volunteers have taken help of NSS national portal, Internet, IEC method, Department visit, oral communication to reach out to the all students, teachers and non-teaching staff of the University.



Health Camp

NSS volunteers conducted health camp for all students, teachers of the University. Blood group of the participants was identified free of cost and BMR also checked.

Health Education:

Dr. A. Banerjee, Professor, Dept. of Anthropology Calcutta University and Dr. Diptendu Chatterjee, Asst. Professor, Dept. of Anthropology, Calcutta University, have delivered lectures on HIV/AIDS held on 27th march, 2017 at Conference Hall, Library Building, Tripura University.

Prof. S. Sil, Professor of Human Physiology, Tripura University on 9th June, 2017 as resource persons in the NSS Camp on “Cardiac Problem and Health Related Issues”, organized by the NSS Unit, Tripura University, funded by the Ministry of Youth Affairs, Government of Tripura, at Tripura University.



Digital India Programme:

The volunteers of NSS Unit, Tripura University participated in the digital India programme held on 7th June, 2017 in the Academic Building-11, Tripura University. Sri Shakti Debbarma, Sr. System Analyst, Tripura University and Prof. S. Sanjay, Librarian, Tripura University delivered lecture on digital India related to courses of IT, use of internet, PoS, debit card, credit card, aadhar card, digi- locker etc. and how to use internet for searching e-books, available e-books of Tripura University.



Sticker Pasting:



**Extension and outreach programs conducted
2017-18**



Tripura University

Report submission for NAAC



Excursion activity in South Tripura: Commit Sociology and Nature Experience, Department of Sociology during the Acad year 2017-2018. 43 Students were a part of it.



Orphanage visit and Donation- 2018 at Nabaprantik Orphanage, Agartala. 60 Students were a part of it.

***Brief Report on MBA 1st Semester Local Industry Visit
Department of Business Management, Tripura University.***

Department of Business Management, Tripura University (A Central University) organized one local industrial visit for the MBA 1st semester students on 11/11/2017 (Saturday) with financial aid from the university. The objective of the visit was to acquaint students with various aspects of industrial working. This visit is a compulsory one having certain weight associated which will reflect in exam performance based on presentation and report submission. Students visited three industries from MSME sector operative in Tripura: Mutha Industries limited, Annada Spices Private Limited and Pran Beverages India private limited.

Mutha Industries in Tripura produce furniture, wood, tiles and other home interior items from bamboo, a rich natural resource of the state. Students visited the production facility of Mutha, spanning across 5 acres (approx.) of land located in Bamboo Park, Bodhjang Nagar Industrial Estate, Tripura. Some glimpses of the visit are as follows:



After Mutha Industries, students went to Annada spices private limited, one of the new establishment in the area of spices packaging and marketing in Tripura. The students are briefed about various aspects of packaging, labeling, production, and marketing strategies adopted by Annada spices as well as future plan of the group by the representatives of the firm. Some of the captured moments of the visit are as follows:

Sebanu Singh
20/11/2017
Sr. Lectr / Head
Department of Business Management
Tripura University



The next destination was Pran Beverages India Private Limited, a foreign arm of Pran Industries Bangladesh. This industry deals with some well known FMCG products and brands such as for. Noxle, Frodo, Pran Lichi Drink, Confectionary, Pran Rusk, Pran Bread and other bakery items. Students are exposed to various production lines and the production process. Students are also briefed about the quality policy and research and development initiatives of Pran along with their future business growth plan.

During the visit, students were enthusiastic and eager to learn various aspects of actual production and management that they were exposed to through secondary knowledge sources.

Signature
 20/06/2017
 अध्यक्ष / Head
 व्यवसायिक प्रबंधन विभाग
 Department of Business Management
 पंजाब विश्वविद्यालय
 Punjab University.

Local industrial tour organized by Dept. of MBA, TU. 3 Industries were a part of the tour with a total cumulative student number of 180.

त्रिपुरा विश्वविद्यालय

TRIPURA UNIVERSITY

(केन्द्रीय विश्वविद्यालय / A Central University)

सूर्यमणिनगर, अगरतला / Suryamaninagar, Agartala

त्रिपुरा (W), विन/PIN - 799022, भारत/ INDIA

No. F.TU/REG/DPTN/01/08 (Vol-II)



दूरभाष / Phone : (0381) 237 9003

237 4803

फैक्स / Fax : (0381) 237 4802/3

ई-मेल / E-Mail: registrar@tripurauniv.in

वेबसाइट / Website : www.tripurauniv.in

Date: - 20.12.2017

DEPUTATION ORDER

The under mentioned faculty members of this University are hereby deputed to Delhi for Industrial Trip along with 46 nos. MBA 3rd Semester students. The details of deputation are as follows:

Sl. No.	Name & Designation	Period of Deputation	Venue
01.	Dr. Debarshi Mukherjee, HOD & Associate Profesor, Deptt. of Management, TU	03.01.2018 to 12.01.2018	Delhi
02.	Mr. Nirmalya Debntah, Assistant Professor, Deptt. of Management, TU	03.01.2018 to 12.01.2018	Delhi
03.	Ms. Mahasweta Das Saha Assistant Professor, Deptt. of Management, TU	03.01.2018 to 12.01.2018	Delhi

TA/DA will be borne by the University as per Rules.

This is issued with the approval of the Vice-Chancellor, Tripura University.

(M.M.Reang)
Joint Registrar

To,

1. Dr. Debarshi Mukherjee, HOD & Associate Profesor,
Deptt. of Management, T.U
- ✓ 2. Mr. Nirmalya Debntah, Assistant Professor,
Deptt. of Management, T.U .
3. Ms. Mahasweta Das Saha, Assistant Professor,
Deptt. of Management, T.U

Copy to:-

1. The Finance Officer, Tripura University.
2. The DDO, Tripura University.
3. P.S. to the Hon'ble Vice-Chancellor, Tripura University.

10 days Outbound Industry tour at NCR 2018 to ABP News Studio, Exposition (photographic), Wipe India Automotive, Graziano Oerlikon, Cefasec C&S, New Holland Tractors, Anmol and Network 18 with a cumulative student number of 384.

Report on Swachha Bharat Summer Internship Programme (SBSIP) (15th June to 14th July, 2018).

In the earlier report it has been mentioned that the data on SBSIP was furnished upto 30th June, 2018 as per the annual report date. This year the NSS Camp was dedicated in the name of SBSIP. The volunteers emphasized more focus on the Tribal villages.

Different types of work performed by the NSS Volunteers of Tripura University as per the mandate of SBSIP of Government of India.

Team / Individual	Works Performed during the SBSIP					
	No. of walls painted	No. of households visited for Door-to-door meetings	No. of Drawing competition on swachh bharat and tree plantation	No. of Street Cleaning- Drain Cleaning- Cleaning of back alleys	Helping in construction of toilets	Support in Toilet Construction
Total 31 Teams (comprising 308 members) Performed the following works	28	2869	25	108	462	155
4 individuals performed the following works (including one individual worked out of the state i.e. in Bihar)	-	245	2	5	02	01

The team and individuals worked in the 36 villages in Tripura and one village in Bihar on Swachha Bharat Summer Internship Programme where 15 villages were tribal dominated area.









A report from the Field during execution of Swachha Bharat Summer Internship Programme (SBSIP):

Information-Education-Communication activities

Challenges Faced : Some houses were not welcoming and not co-operating. The villagers were surprised since they did not know about the Swachh Bharat and some villagers thought us to be child lifters. It was challenging and a great experience all together.

Field Learning : In this project, we came to learn how people are still living without proper education and housing. We learned how humble they are in spite of their backwardness. We also learned how to be kind, humble and helpful to others.

Solid Waste Management related activities

Challenges Faced : Streets were too dirty so we took a time longer than it was required. Vehicle passing by the road side disturbed our work and since there was not much people to help us, so we were tired.

Field Learning : Through this work we learn that we should keep our surrounding neat and clean.

Support in Toilet Construction

Challenges Faced : Construction of toilet was itself a challenge. During the construction, digging the pit was the most difficult task and we spent most of our time in digging. It is also difficult to get bamboos as some of the villagers did not want to contribute.

Field Learning : During this project, we have learned several things like how toilet has been an important part of our day to day life. We learn that toilet must be used to be effective in keeping our environment clean and preventing the spread of diseases.

Door-to-door meetings (sanitation/ hygiene/toilet usage/ hand wash)

Brief Description : We took five days to complete our survey and in those houses we spent 30 minutes and in some houses more than that. Some people had questions regarding our survey and in some houses there was no proper sanitation system.

Methodology : Firstly, we introduced ourselves to them and told them about our project. Secondly, we listed their names and how many family members are there. Thirdly, we counselled them regarding cleanliness. Fourthly, we asked what problems were they facing.

Helping in construction of toilets

Brief Description : The school gave us a place to build toilet. we collected some of the leftover tins and toilet plate from the school and constructed toilet. Some students help us in constructing. We used choppers for cutting bamboos. The school also provide us water to drink and they cooperate with us a lot.

Methodology : Firstly, we collected all the materials that are required for the construction of toilet. Secondly, we dig the pit by using spade. Thirdly, for pillars we used bamboos. Fourthly, we used tins for making roof, walls and doors. Fifthly, we also used nails and hammer for construction.

Street Cleaning- Drain Cleaning- Cleaning of back alleys

Brief Description : We spent 25 hours for cleaning street, school compound and burnt the non-biodegradable waste of street. We also clean the bushes near the street to widen the road.

Methodology : Firstly, we used hard brooms to sweep the road. Secondly, we used choppers to cut the bushes nearby the street. Thirdly, dustbin to collect wastes. Fourthly, match box for burning wastes.

Apart from the above mentioned programme under Swachha Bharat summer Internship Programme, the volunteers of Sem-II, Sem-IV, and IMD of Various Departments have extensively worked in the University and outside the University.

NSS Collaboration with Swaniti Initiative (Delhi based NGO) on Voice Positive Programmes

Facebook in partnership with Ank Aha Ltd. (Swaniti Initiative) and NSS Unit, Tripura University has organised a programme named as Voice Positive Programme in Tripura University. In these Workshops, the participants were exposed to discussions and engagements with policy makers, Civil Society Organizations (CSOs) and the Facebook team. Post these discussions, the participants have been encouraged to form their own campaigns based on their own understanding of how to counter extremism. The sessions of the workshop are listed below:



Sri Jishnu Deb Barman, Hon'ble Deputy Chief Minister, Tripura graced the occasion of Voice Positive Programme

Ek Bharat Srestha Programme (EBSB)

An organizing committee for EBSB in Tripura University was formed vide Notification F.No./DSW/FCM/01/2017, dated 28th August, 2017, comprising with teaching and non-teaching staff of the University and subsequently decided to coordinate with the Universities of Bihar and Mizoram.

The committee along with the NSS Volunteers and students of Tripura University conducted the following programmes (1st Oct. 2017 to 31st March. 2019).

Details of the Event/s of EBSB

1. Photography / slide show competition with commentary by students on major tourist attractions with paired states (Bihar and Mizoram), Painting and Essay competition (Theme: Tourism & Livelihood/Jeevika aur Paryatan)
2. Quiz Competition on Tourism/ Cultural matters of paired states (Bihar and Mizoram) Award Distributed to Winners
3. Literary Event/ Book Exhibition on Mizoram and Bihar
4. Observed Bihar Day
5. Observed Mizoram
6. Photo Exhibition on Mizoram and Bihar as part of Republic Day

- 7.Bhasa Diwas (Lectures on the languages of Bihar and Mizoram)
- 8.Fashion Parade as part of Hostel Week (Focus on Mizoram and Bihar)
- 9.Visited by representatives of Universities of South Bihar;
- 10.Bhojpuri Film show organised by TU Film Club
- 11.Orientation for New Students on EBSB
- 12.Visited to University of South Bihar

1. Blood Donation Programme

The NSS Unit, Tripura University has conducted Blood Donation Programme on 10th March, 2018 in the Seminar Hall-2 in collaboration with Department of Management Department, Tripura University.



Photo Exhibition on Bihar and Mizoram

Photo Exhibition of Ek Bharat Srestha Bharat (EBSB) programme on Bihar and Mizoram was held as part of Republic Day. It is one of the objectives of Ek Bharat Srestha Bharat (EBSB) programme to share art, music, and literature of various states of India. The programme was exhibited in the ground floor of Administrative Building, Tripura University at 09:00 am on 26th January, 2018. Photo exhibition programme has been categorised on three aspects like Natural Landscape (Environmental and Ecological), Manmade Events (Historical), Social Life (socio-economic and cultural). NSS Volunteers participated in this event.



Yoga Performance by the NSS Volunteer in a Youth Day Programme at Gautam Buddha University, Gautam Budh nagar, Greater Noida



Mr. Prince Kumar Upadhyay, Department of Physical Education, Tripura University, Tripura (West), 799022, bears Roll No.1706250019 of Sem-I, is a NSS Volunteer of the NSS Unit, participated and performed Yoga in a Festival, organised by Ministry of Youth Affairs & Sports, Govt. of India in collaboration with State Govt. of Uttar Pradesh at Gautam Buddha University, Gautam Budh nagar, Greater Noida from 12th to 16th January, 2018.

Swachh Bharat Summer Internship

Following the Prime Minister's clarion call on 2nd October 2014 for each individual to devote at least 100 hours to Swachhata through the year, the Ministry of Drinking Water and Sanitation in association with the Ministry of Human Resource Development and Ministry of Youth Affairs and Sports has launched the 'Swachh Bharat Summer Internship – 100 Hours of Swachhata'. The program aims to engage youth across the country, develop their skill and orientation for sanitation related work and make Swachh Bharat Mission a jan andolan.

Components of the internship The 100 hour experiential internship program would require the candidate to visit one or more villages and conduct activities of their choice to contribute to the cause of rural sanitation in India.

The Volunteers of NSS Unit, Tripura University successfully completed the following activities and also given some innovative ideas for recycling the waste materials, bamboo made dustbin and commercial use of bio-gas etc.

1. 321-volunteers applied through an online application form made available on the website <https://sbsi.mygov.in>.
2. Completed 100 hours in the period of 1st May to 31st July 2018

3. Volunteers worked in home state covering all adopted villages of Tripura University and also other villages of entire Tripura. Volunteer has also taken challenge to implement this programme outside the state like Bihar.

4. Candidates participated individually and in teams. Team size was 10 and total 31 teams registered their name in the SBSI portal where 4-Individuals registered in the same.

5. The work of the candidates were monitored by the Coordinator, NSS Unit, Tripura University.

Activities Undertaken by the Volunteers of NSS Unit, Tripura University

5. Training: An orientation video for youth towards sanitation activities in the rural context has been made known in the primary and secondary schools.

6. All IEC material of Swachh Bharat Mission (Gramin) distributed among the villagers.

Information-Education-Communication activities: IEC activities are oriented towards increasing the awareness of people about sanitation related issues and trigger a change in sanitation related behaviour. IEC activities undertaken by the interns targeted behaviour around open defecation, hygiene practices; solid/ liquid waste management among other behaviours. Under this, the interns did:

☐ Organized awareness campaigns around better sanitation practices like using a toilet, handwashing, health and hygiene awareness, etc.

☐ Performed Nukkad Nataks /street plays, song and dance performances around swachhata Organised Swachhata Melas

☐ Conducted Door-to-door meetings to drive behaviour change with respect to sanitation behaviours

☐ Conducted Village or School-level Rallies to generate awareness about sanitation

☐ Made wall paintings in public places (more specially panchayat offices) on the theme of swachhata Organised

☐ Swachhata-related movie screenings in public places.

7. Solid Waste Management related activities: SWM activities target generation of awareness around waste collection, segregation, disposal and waste-free environment:

☐ Organized Waste collection drives in households and common or shared spaces solid waste into non-biodegradable and biodegradable waste panchayat to build compost pits, where organic matter decomposes to form manure up plans for installation of biogas plants and extracted an idea for commercialised it drains and back alleys through awareness drives

☐ Volunteered for segregation of
☐ Mobilized community and
☐ Helped Panchayats draw
☐ Organized cleaning of streets,

8. Support in toilet construction ☐ Helping in pit digging for toilet construction

9. Reporting: An Internship Report needs to be submitted by the candidate on the online portal in the prescribed format through the Nodal Officer (Educational Institutes: appointed by the institutes; NYKS: District Youth Coordinator) within 15 days of completion of fieldwork. The Volunteers did this successfully before last date of submission.

10. Rewards and Recognition: ┐ All participants will be given a Swachh Bharat Internship Certificate on completion of their internship and its approval by the parent institution (Nodal officer) ┐ The Best interns will be recognized at college, university, state and national levels with Cash Awards .



The NSS Volunteers marked those all trees which were planted by the Vice-Chancellors, University officials, distinguished persons, Campus in-charge under different NSS programmes and activities long ago.

Images of Swachha Bharat Summer Internship Programme from from 1st July, to 14th July, 2018.





Volunteers helped villagers to make Toilet and to renovate it.

Innovation Under Swachha Bharat Summer Internship-2018:

1. Flower Vase and Pen Stand (Marketable Product)



The volunteers made the above flower vase and pen stand by using waste materials like plastic straw, plastic etc.

2. Bamboo Made Dustbin:

The NSS Volunteers made dustbins using bamboo taking help of training from Department of Bamboo Cultivation and Resource Utilisation where Dr. Kaushik Majumdar, Guest Faculty, BCRU helped a lot.



3. BIOGAS (Marketable Product)



BIOGAS typically refers to a mixture of different gases produced by the breakdown of organic wastes in the absence of oxygen. Biogas can be produced from raw materials such as agricultural wastes, manure, municipal wastes, plant material, sewage, green waste or food waste. Biogas renewable energy resources. BIOGAS is primarily a mixture of gases like : methane, carbondioxide and may have small amount of hydrogen sulphide, moistures and siloxanes. Methane, hydrogen, carbon monoxide can be combusted or oxidised with Oxygen. This energy release allows biogas to be used as a fuel. It can be used for any heating purpose such as cooking. It can also be used in a gas engine to convert the energy in the gas into electricity and heat.

BY: Team DIRT BUSTERS, Department of Molecular Biology and Bioinformatics, Tripura University.

'Swachhata Pakhwada'



Data Bank on adopted Villages:



The NSS volunteers collected data from the six adopted villages of Tripura University taking 100 each samples for making a first-hand report. Anyone can use this data for fostering extension activities in these villages.

Literary Event/ Book Exhibition on Mizoram and Bihar (as part of Annual Library Week) was held from 15th to 21st Nov., 2017 in the Library Building, TU where NSS Volunteers participated actively to make the programme a grand success.



Bhasa Diwas: NSS Volunteers also participated in the "Bhasa Diwas" programme of the University held on 21st

February, 2018 in the Auditorium-II of Academic Building-11, TU.



Training Programme on Life Skills, Leadership and Personality Development for NSS Volunteers-2018 held at SIAPRD, AD Nagar, Tripura, Organised by Government of India, Ministry of Youth Affair in collaboration with Tripura State NSS Cell from 20th to 24th March, 2018. The volunteers were trained by the Entrepreneurship Development Institute of India, Guwahati and Rajiv Gandhi National Institute of Youth Development, Sriperumpudur.



Participation in Ananda Sobha Yatra Rally:

NSS volunteers participated in Ananda Sova Yatra rally organised by NSS Cell, Tripura at Rabindrasatabarshiki Bhawan, Agartala, held on 25th November, 2017, from 10am.



Vigilance Day:

The NSS Volunteers participated and took sworn in the day of Vigilance which was held on 9th December, 2017 in the ground floor of Administrative Building, TU.



Extension and outreach programs conducted
2018-19



Tripura University

Report submission for NAAC



Orientation programme for New Students on EBSB was organised on 6th September, 2018 in the Tripura University premises. Students of all departments along with NSS volunteers, teachers and non-teaching staff participated in this programme. Our Hon'ble Vice-Chancellor Prof. Vijaykumar Laxmikantrao Dharurkar was the Chief Guest of the programme and Prof. C. B. Mazumder, Dean, Arts and Commerce, Tripura University was the Special Guest of this programme.



Orientation programme



CUSB team reached at Agartala



CUSB Team at TU



Cultural Programme at TU by the CUSB Team

A seminar was organised on "Digital India" for the NSS Volunteers. The hon'ble Vice-Chancellor, Tripura University delivered a lecture about this issue, on 13th August, 2018 in the NSS class room. This was an interactive session and he mentioned the nitty-gritty of Digital India. This was an collaborative initiative with Computer Centre, Tripura University.



The NSS Volunteers are the supplier of flower bouquet to the all programmes of the university at low cost. It is an innovative initiative of the NSS volunteers inspired by the hon'ble Vice-Chancellor, Tripura University to save university fund and this amount is donated to the hostel to help the BPL students.



Hon'ble Vice-Chancellor, TU entered first time into his office with the tree plantation programme by the NSS volunteers.

The volunteers attended the following programmes of the University:

- i. Outreach programme for fullbright Nehru fellowship programme
- ii. Re-skilling of Indian Youth
- iii. Swachata Pakhwada in the Adopted villages
- iv. International Yoga Day
- v. Awareness Programme organised by the NSS Volunteers in the Schools of adopted villages on "Prevention of Misuse of Social Media"
- vi. 150th Birth Centenary celebration of Mahatma Gandhi
- vii. Run for Unity and Rastriya Ekta Diwas
- viii. IAS training programme



Social Media Programme



Social Media Programme

1. **Daily Activities:**

2.1 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.

Camp Activities (in-house and outside the four walls):

2. The NSS volunteers participated and performed in the following programmes under 'Swachhata Pakhwada' programme of the University.

1. Visit to Adopted Villages to explain the concepts of Cleanliness, Wall Writing on Cleanliness and Health
2. Visit to 'Babul Chowmuhani' to study the system of cleanliness
3. Visit to Tripura Medical College, Hapania, Amtali Market to Study the hygiene and systems for disposal of garbage and waste material and
4. Visit to 'Prantik' Orphanage, Amtali

1. National Level Participation

Mr. Prince Kumar Upadhyay, Department of Physical Education, Tripura University, Tripura (West), 799022, bears Roll No.1706250019 of Sem-I, is a NSS Volunteer of the NSS Unit, participated in a Festival, organised by Ministry of Youth Affairs & Sports, Govt. of India in collaboration with State Govt. of Uttar Pradesh at Gautam Buddha University, Gautam Budh nagar, Greater Noida from 12th to 16th January, 2018. The objective of organizing NYF is to provide a platform to bring the youth of the country together in an attempt to provide them opportunity to showcase their talents in various activities. National Youth Festival (NYF) is the biggest Youth Festival of its kind in the Country. This is the 22nd National Youth Festival.

The Theme of the Festival is 'Sankalp Se Siddhi', to capitalize on the demographic dividend of young India, to capture the vibrancy and fresh perspective of youth and to pledge to accomplish the Goal of New India.

The Festival also provided an arena, by creating a Mini-India, where youth interact in formal and informal settings and exchange their social and cultural uniqueness. This blend of diverse socio-cultural milieu creates 'Ek Bharat Shrestha Bharat'.

The entire programme was designed to enhance the awareness about government initiatives and exhorting the youth to express their perceptions and concepts of how to make their initiatives more effective. Around 5000 volunteers of National Service Scheme and Nehru Yuva Kendra Sangathan from all parts of the country along with local accredited youth participated in the 5-day Festival.

The Festival commenced on the occasion of birth anniversary of Swami Vivekananda, the youth icon of India. Prime Minister Shri Narendra Modi inaugurated the events of the National Youth Festival (NYF) on 12 January 2018. (The entire report was submitted by the participants of TU along with image).

Run for The Unity:

NSS Unit, Tripura University organised Run for the Unity rally programme on 31st October, 2018, to celebrate the birth day of Sardar Vallabhbhai Patel, Iron Man of India.



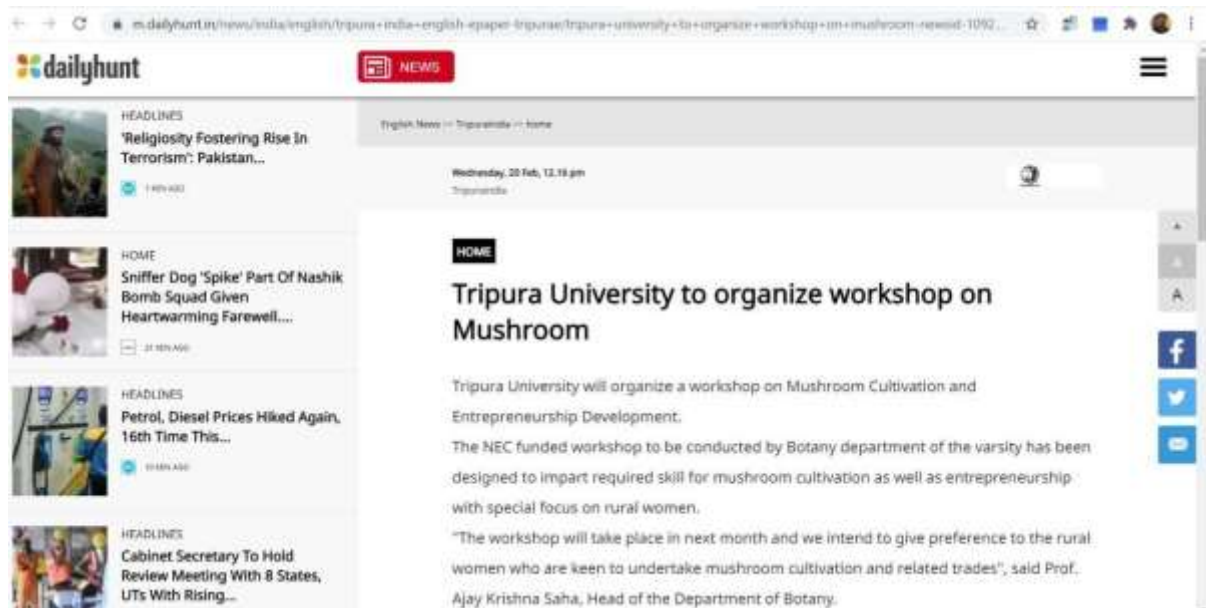
Health Awareness Programme:



Distinguished faculties from department of anthropology, Calcutta University delivered two lectures on health and health related issues to generate awareness among the NSS Volunteers on “Save Organ” and “Protect Yourself from Communicable Diseases” by Prof. A. R. Banerjee and Dr. D. Mukherjee.



One day student activity on mushroom cultivation techniques



A two days hand on training of mushroom cultivation.

Food festival celebrated in TU

■ NEC Report

Agartala, Feb 28 : The students of Department of Business Management have embarked upon a journey to organize their annual management fest and alumni meet with great fervour and enthusiasm on 3rd March 2019. The preparation commenced today with a beautifully conceptualized a food festival at Tripura University campus. Over 15 stalls were setup to showcase the diversity of local and Indian cuisine from different departments of Tripura University. The noble objective of this food festival was to raise fund for the orphanage children and develop a sense of entrepreneurial acumen among the students. The food outlets with a variety of mouthwatering home-

made delicious dishes tempted and attracted each and everyone alike. Dishes of the festival included like Momo, Paw bhajii, Bangui, dahi chicken, bhapa biriyani cooked in earthen pot,

oping their skills and talent. Also, such festivals help student to learn team work, leadership planning, with overall management skills. The students applied excellent strategy o



chicken pakoda, chicken and pork bharta. The food fest was organized with motivate the budding management students which will help them in devel-

pricing in which they offered home cooked food with very nominal rate and could generate revenue of Rs. 25000/- in four hours.

Orphanage visit and Donation- 2019 (Donation was generated by students by the Organizing Food fest in the University campus)



Blood Donation camp 2019



DEPARTMENT OF BUSINESS MANAGEMENT
TRIPURA UNIVERSITY

16th November 2018

NOTICE

Sub: Local Industry Visit of MBA I semester students on 17th November 2018 at 09.00 a.m.

As a part of the MBA (2017-19) academic curriculum (BMG 709 C), the Department of Business Management, Tripura University will conduct one industrial visit for the ongoing MBA 1st semester students to the Bodhiang Nagar industrial area in two reputed companies on 17/11/2018 (Saturday). All the first semester students of the department are required to remain present tomorrow in the department latest by 9 a.m. The students are strictly advised follow the departmental dress code and carry respective university identity cards.

Dr. Debarshi Mukherjee
Associate Professor & Head

Copy to:

1. PS to VC for favour of information
2. PS to Dean (Arts & Commerce)
3. PS to Registrar
4. PS to Finance Office
5. Notice Board

Local Industry Tour 2019 at Pran beverages India Ltd., Mutha Industries Pvt.

त्रिपुरा विश्वविद्यालय

TRIPURA UNIVERSITY

(केन्द्रीय विश्वविद्यालय / A Central University)

सूर्यमनिनगर, अगरतला / Suryamaninagar, Agartala

त्रिपुरा(ब.) / Tripura (W), पिन/PIN - 799022, भारत/ INDIA



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वेबसाइट / Website : www.tripurauniv.in

No. F.TU/REG/DPTN/01/08 (Vol-II)

Date: - 20.11.2018

DEPUTATION ORDER

The under mentioned faculty members of this University are hereby deputed to Delhi-NCR for Industrial Trip along with 48 nos. MBA 3rd Semester students. The details of deputation are as follows:

Sl. No.	Name & Designation	Period of Deputation	Venue
01.	Dr. Debarshi Mukherjee, HOD & Associate Profesor, Deptt. of Management, TU	03.01.2019 to 12.01.2019	Delhi-NCR
02.	Mr. Nirmalya Debntah, Assistant Professor, Deptt. of Management, TU	03.01.2019 to 12.01.2019	Delhi-NCR
03.	Ms. Monalisa Chanda, Guest Faculty, Deptt. of Management, TU	03.01.2019 to 12.01.2019	Delhi-NCR

TA/DA will be borne by the University as per Rules.

This is issued with the approval of the Vice-Chancellor, Tripura University.

(S.C.Das)

Assistant Registrar

To,

1. Dr. Debarshi Mukherjee, HOD & Associate Profesor,
Deptt. of Management, T.U.
2. Mr. Nirmalya Debntah, Assistant Professor,
Deptt. of Management T.U.
3. Ms. Monalisa Chanda, Guest Faculty,
Deptt. of Management T.U.

Copy to:-

1. The Finance Officer, Tripura University.
2. The DDO, Tripura University.
3. P.S. to the Hon'ble Vice-Chancellor, Tripura University.

10 days Outbound Industry tour at NCR 2019 at Anmol Biscuits, Wipe India, CS electric, Global Autotech, Graziano, CNH, Subros, Shivam Polymer, ABP News,, GIP Mall. A cumulative of 405 students were a part of the several visits (45 students each industry).

**Extension and outreach programs conducted
2019-20**



Tripura University

**Report submission for
NAAC**



Today on 25a November 2019, a visit ozs organized to the adopted village of Tripina University imder the guidance of Mr. Harjeet Nath (Asst. 9rof. Chem & Polymer Engg.) and Dr. Rajesh Chatterjee (Asst. 9rof., CSSIEP) along students of Chemical and Polymer Engineering, Microbiology, Pharmacy Botany etc. to interact with children's and their parents of Bnllbpur JB school which is just near the university back premises. They were asked to share their problems, what they are facing in their everyday Me. They shared their problems and the team tried to give some solifions to their problems. Amass programs on water stomge, writer purification, women empowerment were cnxried out in addition to demonstration of a potable water punfier designed by Mr. Harjeet Nath.

List of the problems which came up during the discussion process were mainly

1. Water problems during summer seasons
2. No proper drainage system in then village for proper water passes
3. No dustbin
4. Mosquito issues
5. Skin diseases etc.







Mr. A visit to adopted village

25/11/2021

S.No	Name	Department	Description	Email ID	Contact No	Signature
1.	Prof. M. S. S. S.	Microbiology	Researcher	m.s.s.s.s@gmail.com	989963964	[Signature]
2.	Shobana K. S.	Chemistry	Researcher	shobana.s.s@gmail.com	989963964	[Signature]
3.	Sankar R. S.	CPE	Researcher	paulsankar@gmail.com	989963964	[Signature]
4.	Tamil R. S.	CPE	Researcher	santhoshan.s.s@gmail.com	989963964	[Signature]
5.	Prasanth S. S.	CPE	Researcher	prasanth.s.s@gmail.com	989963964	[Signature]
6.	Rahul S. S.	Botany	Researcher	rahul.s.s@gmail.com	989963964	[Signature]
7.	Subhakar Majumdar	Human Physiology	Researcher	subhakar.majumdar@gmail.com	989963964	[Signature]
8.	Bharath P. S.	Dept. of Pharmacy	Researcher	bharath.p.s@gmail.com	989963964	[Signature]
9.	Nasham S. S.	Pharmacy	Ph.D.	nasham.s.s@gmail.com	989963964	[Signature]
10.						
11.	Honey S. S.	Chem. & Phys. S. S.	Researcher	honey.s.s@gmail.com	989963964	[Signature]
12.	Mandana S. S.	Microbiology	Researcher	mandana.s.s@gmail.com	989963964	[Signature]
13.	Nikita S. S.	Microbiology	Researcher	nikita.s.s@gmail.com	989963964	[Signature]
14.	Pranav S. S.	Cellular Bio. S. S.	T.I.C.	pranav.s.s@gmail.com	989963964	[Signature]
15.	Pranav S. S.	"	U.E.T.	pranav.s.s@gmail.com	989963964	[Signature]
16.	Sanjay S. S.	"	G.S.T.	sanjay.s.s@gmail.com	989963964	[Signature]

Scanned by TapScanner

মাশরুম চাষ পদ্ধতি



ত্রিপুরা বিশ্ববিদ্যালয়ের উদ্ভিদবিদ্যা বিভাগের
(ছত্রাক বিদ্যা ও উদ্ভিদ রোগবিদ্যা গবেষণাগার)
দ্বারা সংকলিত







Hands on training on mushroom cultivation and entrepreneurship development.
Villagers of Kalkolia Gram Panchayat. 25 people have been trained.



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वेबसाइट / Website : www.tripurauniv.in

बिजुप (W) / Tripura (W), पिन/PIN - 799022, भारत/ INDIA

Its.F7U/REG/DPTN/g1/OB (Vol-II)

Date: - 19.12.2019

DEPUTATION ORDBB

The under mentioned faculty members and Research Scholar of the University of Tripura have been deputed to Delhi-NCR for a period of 07 months for the purpose of attending the 18th meeting of the Delhi-NCR. The details of deputation are as follows:

Sl. No.	Name & Designation	Period of Deputation	Venue
01.	Dr. Debarshi Mukherjee, HOD & Associate Professor, Dept. of Management, TU	07.01.2020 to 16.01.2020	Delhi-NCR
02.	Dr. Nirmalya Debnath, Assistant Professor, Dept. of Business Management, TU	07.01.2020 to 16.01.2020	Delhi-NCR
03.	Ms. Mautushi Chaudhury, Research Scholar, Dept. of Business Management, TU	07.01.2020 to 16.01.2020	Delhi-NCR

TA/DA will be borne by the University as per Rules.

This is issued with the approval of the Vice-Chancellor, Tripura University.

(Signature)
(1/C)

1. Dr. Debarshi Mukherjee, Associate Professor & Head, Deptt. of Business Management, T.U.
2. Dr. Nirmalya Debnath, Assistant Professor, Deptt. of Business Management T.U.
3. Ms. Mautushi Chaudhury, Research Scholar, Deptt. of Business Management T.U.

Copy to:-

1. The Dean, Faculty of Arts & Commerce, T.U.
2. The Finance Officer, Tripura University.
4. The DDO, Tripura University.
5. P.S. to the Hon'ble Vice-Chancellor, Tripura University.



10 days Outbound Industry tour at NCR 2020. CNH (New Hollands), RSPL Group (Ghari Detergent), GIP Mall, Anmol bakers, Global Autotech, Mirza International Ltd.(Red Tape), Shivam Polymers, Expo mart, Graziano Dana, Anmol Biscuits, Wipe India, CS electric, Graziano, CNH, Subros, ABP News. For the 15 visits a total of 705 cumulative students were a part of the tour.

NSS Activities:

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-2019-20 was organised by the Tripura University where the NSS Volunteers from different department participated to make it a grand success. As per directives of MHRD, GoI, the students have planted 10 saplings of different fruits. The entire plantation programme was taken place in front of Kokborok department who will look after these all saplings. Participated in the poster making competition on Water conservation.





3. 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.



4. NSS Volunteers participated in the all events of Ek Bharat Srestha Bharat programme. Volunteers of NSS Unit, TU are members of Ek Bharat Srestha Bharat Club. Participated in a special talk on "Bihar: Oitihaik and Sanskritik Parichay"



5. 'one student one tree' - Saplings Plantation Programme

As per the directives of MHRD, GoI, and in order to facilitate the new campaign of 'one student one tree' undertaken by the Dr. Ramesh Pokhriyal, hon'ble minister, MHRD, a target was set up in front of NSS Volunteers to plant 1000 saplings within the university premises and outside the university

boundary. The NSS volunteers have collected these all saplings from the forest department, Govt. of Tripura and also by their own way. The NSS volunteers have successfully planted more than 2500 saplings and these activities have been recognised by the Government of India by awarding **Third Prize** in a programme at New Delhi.



Few Glimpses of the ‘One student one Tree’ Programme

Rashtriya Poshan Maah-2019

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 organised on 2nd October, 2019 in the day of Mahatma Gandhi Birth centenary and this day is also observed as the foundation day of the Tripura University. A rally was organised within the university premises by the NSS Unit and one cultural programme was also staged in front of Administrative Building, TU. Gandhi's statue at City centre, Tripura University was garlanded.



Swachha Bharat Summer Internship Award:

Volunteers of NSS Unit, Tripura University were awarded first, second and third prize for their best performance in the Swachha Bharat Summer Internship Programme held from 15 June, 2018 to 14th July, 2018 in the different villages of Tripura and Bihar. First and third prize were secured by the groups of English department, Tripura University and second prize was given to an individual volunteer of Tripura University who worked outside the state. The programme was conducted on 31st January, 2020 in the seminar Hall of Tripura University in presence of Dean of Science and Dean of Arts and Commerce, Tripura University. The team and individuals worked in the 36 villages of Tripura and one village in Bihar on Swachha Bharat Summer Internship Programme where 15 villages were tribal dominated area.

(https://www.youtube.com/watch?v=dZyFQqut8_A/ /

)



Two-Day State Level Workshop

Two days state level workshop was organised by the DSY, GoT on 7-8th February, 2020 for the Programme Officer, NSS Unit, Tripura. The programme officer participated in this programme and completed successfully.

Inter Institutions Camp on Personality and Leadership Development:



The volunteers of NSS Unit, Tripura University participated in the inter institutions camp on personality and leadership development programme organised by Dept. of Youth and Sports Affairs, GoT, held from 16th to 20th February, 2020 at Saheed Bhagat Sing. The students of NSS Unit, Tripura University was awarded the **Best Volunteer** of that programme. Volunteers also donated blood

Book Fair at Hapania, Agartala

More than 300 volunteers participated in the state level book fair at Hapania Industrial ground, Agartala, held on 26th February, 2020. Students were assembled in the inaugural programme where honourable CHIEF MINISTER AND Deputy Chief Minister were present in that programme as the chief guest. This is one type of effort by the University to bring interest and aware the students about the new books of different national and international authors. The NSS Programme Officer hastaken this initiative to motivate students about book fair and purchase of new Books.



International Yoga Day

NSS Unit, Tripura University has organised Yoga Day on 21st June through a Webinar. All the volunteers participated in this programme where Dr. Sabyasachi Dasgupta, Dean, Students' Welfare, Tripura University was the Chief Guest of that Programme. The entire programme was coordinated by the P.O., NSS Unit, Tripura University (<https://www.youtube.com/watch?v=6fmiuHwcZAk>).

Food Items Distribution by the NSS:



During lock down period of Covid-19, the NSS volunteers donated food items to the BPL families of the adopted villages of Tripura University. Food items were contained with 5 kgs rice and one kilo *daal*. This initiative was taken purely by the NSS volunteers. This work of food items distribution among the poorest of the poor is appreciable.

Activities of the NSS Volunteers during Lockdown period to resist Covid-19:



Few glimpses of the activities



Activities performed and completed by the Volunteers of NSS Unit, Tripura University

- a. Mask Making
- b. Mask Distribution among the vulnerable section like children, women and aged persons
- c. Sanitizer distribution
- d. Food items distributions
- e. Awareness generation about Covid-19 among the villagers

Integrity a Way of Life (Vigilance Awareness Week):

Students have participated in the programme on Integrity a Way of Life held on 28th October to 2nd November, 2019. For this purpose a rally “Vigilance Awareness Week” organised and participated by the NSS Unit Tripura University to generate awareness among rural students, rural people and common people. Near about five hundred students from rural schools participated in this rally.

To generate more awareness on “Vigilance Awareness Week” among the students and rural people, a programme was organised with UCO Bank to generate awareness among the students volunteers and another programme was also organised in collaboration with ONGC-Agartala in the adopted village named as Suryamaninagar GP to make aware the rural masses. Hundred twenty five rural people participated in this programme.



Digital India Campaign:

The Volunteers of NSS Unit, Tripura University is actively engaged to aware the rural students of the Adopted villages about the Digital India Programme of GoI. To implement the digital India Campaign in the all villages, the volunteers presented the entire matter with a small presentation using projector. Basically it is taught that how to open a bank account through online, how to collect any information with the help of internet and how an individual can prevent herself or himself from any fraud and fake news fake photos.



Constitution day:

Volunteers of NSS Unit, Tripura University have participated in the constitution day programme held on 26th November, 2019, at Maharaja Birbikram Satabarsiki Bhawan



Celebration of Gandhi's 150th Birth Anniversary:

Volunteers of NSS Unit, Tripura University has participated in the 150th Birth Centenary celebration of Mahatma Gandhi held on 1st November, 2019 at the Maharaja Birbikram Satabarshiki Bhawan, Tripura University.

NAPDDR Programme (Drug Reduction):

The volunteers of NSS Unit participated in the National Action Plan for Drug Demand Reduction (NAPDDR) organised by the National Institute of Social Defence, Ministry of Social Justice and Empowerment, Government of India in collaboration with Tripura Prisons Directorate and Tripura University on 26th February, 2020 at the Seminar Hall No.2, Tripura University.

Volunteers' Service for the Cleanliness and Gardening of Tripura University (Few Glimpses):



Sramadan of the Volunteers on the followings activities:

- a. Pineapple garden
- b. Papaya garden
- c. Sweet Lemon Garden
- d. Plantation of trees under MHRD, Gol programmes
- e. Amfi theatre cleaning

28-09-2020

To
Prof. Syed Arshad Hussain
Department of Physics
Tripura University
Suryamaninagar - 799 022
Tripura, India



To whom it may concern

I am very happy to mention that we have active collaboration with your research group at Department of Physics, Tripura University and my research group at Department of Chemistry, Yamaguchi University, Japan since 2013. As a result of collaborative research we have several peer reviewed joint publications in our credit. Also researchers from your group and my group have made two successful exchange visit. I hope in near future our collaborative research will results some more fruitful outcome.

Thank you very much.

Sincerely

Prof. Jun Kawamata
Department of Chemistry
Yamaguchi University
Yamaguchi 753-8512, Japan
Tel & Fax +81-83-933-5729
j_kawa@yamaguchi-u.ac.jp



Adsorption behavior of DNA onto a cationic surfactant monolayer at the air–water interface

Chaitali Hansda^a, Syed Arshad Hussain^b, Debajyoti Bhattacharjee^b, Pabitra Kr. Paul^{a,*}

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^b Department of Physics, Tripura University, Suryamaninagar 799022, Tripura West, India

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DNA

Octadecylamine

Atomic force microscopy

ATR–FTIR spectroscopy

ABSTRACT

This communication reports the adsorption of DNA to the preformed Langmuir monolayer of cationic surfactant Octadecylamine (ODA) at the air–water interface and thereby formation of ODA/DNA complex monolayer at the interface. Effect of concentration of DNA in the subphase as well as subphase pH on the adsorption of DNA onto ODA monolayer assemblies have been studied by monitoring the change in surface pressure of ODA/DNA complex monolayer as a function of time. The complex monolayer was also transferred onto solid substrate to prepare ODA/DNA Langmuir–Blodgett films which were analyzed by UV–vis absorption, ATR–FTIR spectroscopic techniques. The most significant observations is that the extent of interactions between ODA and DNA at the air–water interface increases with increasing concentration of DNA in the subphase and also subphase pH. At higher pH, hydrophobic interaction dominates over electrostatic interaction between DNA and ODA in the aqueous subphase. DNA immobilized in the backbone of ODA lies almost flat or extended onto solid substrate at neutral pH whereas, they lie aggregated and compacted coil rather than flat when adsorbed from high pH namely, 11.5 of the subphase. This was confirmed by atomic force microscopy of these complex LB films onto solid substrate.

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1. Introduction

Deoxyribonucleic acid (DNA) is well-known as a source of biological information depending on its base sequences. DNA is also interesting as a material that exists as double helical rodlike molecules consisting of base-pair (bp) stacking. Rod-like polymers such as polyglutamate [1–3] polysiloxane [4], alkylated cellulose, [5] and discotic crystals [6] have been reported to form Langmuir–Blodgett (LB) films in which rod-like molecules aligned in one direction during the compression process on the subphase [7,8] or the deposition process of monolayers [9]. DNA is a good candidate to form an oriented Langmuir monolayer when adsorbed from an aqueous subphase to the oppositely charged surfactant monolayer at the air–water interface.

Monolayers of charged surfactant molecules at the air–water interface (Langmuir monolayers) have long been acknowledged to be the excellent media for the organization of large inorganic ions [10,11], colloidal nanoparticles [12], phospholipids [13] and biomacromolecules such as proteins/enzymes [14,15] and in the growth of oriented crystals [16]. The interaction of DNA with Langmuir monolayers has received considerable attention with a view to understand templated supramolecular organization as well as the transfer of DNA across biological bilayer membranes in gene therapy in cancer, VIH, Ebola or heart infarction [17–19]. Moreover, anchoring of DNA in a Langmuir–Blodgett film

has made possible in its immobilization [20–22] and construction of DNA chip [23]. Studies on DNA immobilization at the air–water interface have hitherto concentrated on electrostatic complexation between DNA molecules with cationic surfactant Langmuir monolayers and hydrogen bonding between alkylated monolayer-forming nucleobases and complementary water-soluble bases and oligonucleotides. This electrostatic complexation between DNA and cationic surfactant sometimes very much sensitive to the different microenvironment from which it is adsorbed. There are some previous reports on the immobilization of DNA onto Langmuir monolayers onto hydrophilic solid substrate [24,25]. However the effect of subphase pH on the complexation of DNA and cationic surfactant is still not extensively studied. It is already believed that DNA-surfactant complexation is a non-viral method of gene delivery into the cell [26]. DNA immobilized onto solid substrates may have profound implication with respects to its biological functionalities and protein or enzymatic recognition [27,28]. In this present paper, the interaction mechanism of DNA on to the preformed Langmuir monolayer of cationic Octadecylamine (ODA) at the air–water interface as a function of various parameters like concentrations, pH of the subphase etc. and the successful transfer of the resultant complex Langmuir monolayer onto solid support have been demonstrated. pH of the medium can play important role for different headgroup interactions of surfactant in an aqueous subphase and can cause compaction or condensation of nucleotides while complexation with surfactant [29]. Adsorption of DNA onto ODA monolayer has been studied by monitoring the surface pressure (in mN/m) of the

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E-mail addresses: pkpaul@phys.jdvu.ac.in, pabitra_tu@yahoo.co.in (P.K. Paul).

No. BT/Env/BC/01/2010
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (6-8th Floors)
CGO Complex, Lodhi Road,
New Delhi- 110 003
Date: 01.10.2015

RELEASE ORDER

In continuation of this Department's sanction order of even number dated 23.03.2012 sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rule, 1978, for the release of **Rs. 10.657 lakhs** (Rupees Ten lakhs sixty five thousand seven hundred Only) being the fourth year release for the project entitled **"Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools"** being implemented by:-

1. Prof. H. Lalramnghinglova, Professor, Departmental Environmental Sciences, Mizoram University, Tanhril post Box No.190, Aizawl, Mizoram - 796001.
2. Dr. Aparajita De, Assistant Professor, Department of Ecology & Environmental Sciences, Assam University, Silchar - 788 011, Assam, India.
3. Prof. B.K. Datta, Professor, Department of Botany, Tripura University, Suryamaninagar - 799022 Tripura

The detailed break-up is as given below:

Name of Institution	Manpower	Consumables	Travel	Contingencies	Overhead	Total Rs. In Lakhs
Mizoram University, Aizawl	1.78	1.00	1.00	0.40	0.00	4.18
Assam University, Silchar	1.59	0.32	0.40	0.255	0.00	2.565
Tripura University, Agartala	2.376	0.336	0.40	0.30	0.50	3.912
Total						10.657
Rs. 0.164 lakhs Interest earned by Tripura University is re-appropriated to consumables head. Accordingly, total amount in Consumables head is Rs. 0.50 lakhs (Rs. 0.164+0.336).						

2. The amount of **Rs. 10.657 lakhs** (Rupees Ten lakhs sixty five thousand seven hundred Only) will be drawn by the Drawing & Disbursing Officer, DBT, from the Pay & Accounts Officer, DBT, and disbursed through RTGS as per following details:

Rs. 4.18 Lakhs to Registrar, Mizoram University, Aizawl

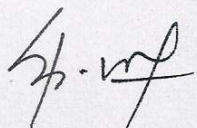
Bank Name : United Bank of India
Branch Name: Mizoram University Branch, Tanhril, Aizawl
A/c No. : 1548010004312
IFSC Code : UTBIOMZUH61
MICR Code : 796027003

Rs. 2.565 Lakhs to Registrar, Assam University, Silchar

Bank Name : Canara Bank
Branch Name: Silchar Branch, Rangirkhari, Silchar-5
A/c No. : 3050101000285
IFSC Code : CNRB0003050
MICR Code : 788015002

Rs. 3.912 Lakhs to Registrar, Tripura University, Tripura

Bank Name : State Bank of India (SBI)
Branch Name: Tripura University Branch
A/c No. : 30371209938
IFSC Code : SBIN0010495
MICR Code : 799002524



No. BT/Env/BC/01/2010
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (6-8th Floors)
CGO Complex, Lodhi Road,
New Delhi- 110 003
Date: 01.10.2015

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3. Prof. B.K. Datta, Professor, Department of Botany, Tripura University, Suryamaninagar - 799022 Tripura

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2. The amount of **Rs. 10.657 lakhs** (Rupees Ten lakhs sixty five thousand seven hundred Only) will be drawn by the Drawing & Disbursing Officer, DBT, from the Pay & Accounts Officer, DBT, and disbursed through RTGS as per following details:

Rs. 4.18 Lakhs to Registrar, Mizoram University, Aizawl

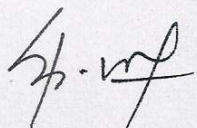
Bank Name : United Bank of India
Branch Name: Mizoram University Branch, Tanhril, Aizawl
A/c No. : 1548010004312
IFSC Code : UTBIOMZUH61
MICR Code : 796027003

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Bank Name : Canara Bank
Branch Name: Silchar Branch, Rangirkhari, Silchar-5
A/c No. : 3050101000285
IFSC Code : CNRB0003050
MICR Code : 788015002

Rs. 3.912 Lakhs to Registrar, Tripura University, Tripura

Bank Name : State Bank of India (SBI)
Branch Name: Tripura University Branch
A/c No. : 30371209938
IFSC Code : SBIN0010495
MICR Code : 799002524



File No.BT/247/NE/TBP/2011
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER DIVISION)

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi-110003
Dated: 01 / 05 / 2012

ORDER

Sanction of the President is here by accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the implementation of the project under 'DBT's Twinning programme for the NE' titled "Molecular epidemiology of HPV and cervical cancer in Tripura: genetic variations influencing HPV persistence and disease development" Dr. Samir Sil, Tripura University, Agartala, Tripura and Dr. Sharmila Sengupta, National Institute of Biomedical Genomics, Kalyani West Bengal at a total cost of ₹ 107.75 lakhs (Rupees One Crore Seven lakhs and Seventy five thousand only) for a period of three years, on the terms and conditions detailed as under:

2.0 The Project:

2.1 Project Title: Molecular epidemiology of HPV and cervical cancer in Tripura: genetic variations influencing HPV persistence and disease development.

2.2 Project Investigators

**2.2.1 Principal Investigator:
(Parent Institute)**

Dr. Samir Sil
Associate Professor
Molecular Genetics Laboratory,
Dept. of Human Physiology,
Tripura University,
Dimsagar,
Agartala, Tripura- 799001

**2.2.2 Principal Investigator:
(Collaborating Institute)**

Dr. Sharmila Sengupta
Professor
National Institute of Biomedical Genomics,
Netaji SubhasSanatorium, (T.B. Hospital),
2nd Floor, N.S.S., Kalyani,
West Bengal- 741251.



28-09-2020

To
Prof. Syed Arshad Hussain
Department of Physics
Tripura University
Suryamaninagar - 799 022
Tripura, India



To whom it may concern

I am very happy to mention that we have active collaboration with your research group at Department of Physics, Tripura University and my research group at Department of Chemistry, Yamaguchi University, Japan since 2013. As a result of collaborative research we have several peer reviewed joint publications in our credit. Also researchers from your group and my group have made two successful exchange visit. I hope in near future our collaborative research will results some more fruitful outcome.

Thank you very much.

Sincerely

Prof. Jun Kawamata
Department of Chemistry
Yamaguchi University
Yamaguchi 753-8512, Japan
Tel & Fax +81-83-933-5729
j_kawa@yamaguchi-u.ac.jp



4 October 2020

International Collaboration with Dr. Anirban Guha

I am writing this letter to describe the international collaboration between Dr. Anirban Guha and my team at Tel Aviv University in Israel. I have known Dr. Guha for about 7 years after meeting him at an international conference on Atmospheric Electricity. We were both presenting papers at the conference, and since we both work in similar fields, we had a lot to talk about. We have remained in close contact since, and today we are working closely together on topics related to lightning, thunderstorms, atmospheric electricity and climate change.

In recent years Dr. Guha and myself applied for a joint research grant to study the link between thunderstorms and upper tropospheric water vapor. This joint research has involved mutual visits in Israel and India, and our students have also started collaborating together. The main field of our interest is related to the Schumann resonances, and Dr. Guha has become one of the world experts in this field, with additional international collaborations with scientists in the US, Europe and Japan on this topic. He has visited many countries for work and research, and has attended many research workshops and international conference around the globe, including one in Israel that I organized a few years ago.

Due to Dr. Guha's pleasant manner, and readiness to always help and collaborate, he has earned himself additional international recognition, as shown by the co-authors on some of his recent papers. Dr. Guha is also promoting a South Asian Lightning Network of research dealing with lightning safety issues to help protect the public from lightning risks. I attended a workshop in Tripura on this topics, and was impressed with the international turnout from neighboring regions (Nepal, Bangladesh, Sri Lanka, Zambia, South Africa, Malaysia, Indonesia, etc.). Hence, Dr. Guha has significant international cooperation, which appears to be expanding all the time.

If you would like any additional information, please feel free to contact me.

Sincerely,

Prof. Colin Price
Head of the Environmental Studies Department
Porter School of the Environment and Earth Sciences
Tel Aviv University



Massachusetts Institute of Technology

October 5, 2020

Dr. Anirban Guha
Department of Physics
Tripura University
India

Dear Anirban

This letter summarizes the collaborative research in atmospheric electricity and global climate between Tripura University and MIT, initiated by your receipt of a Fulbright Fellowship (2012- 2013), with interest in the relationship between global lightning activity and temperature. Your important initiative here, with a followup visit in 2014, led to the organization of the long-term recording of the Earth's Schumann resonances at the MIT field station in West Greenwich, Rhode Island. We then drew together the records of ~30 ELF stations worldwide on the MIT SuperCloud site as inputs to geophysical inversion schemes for global lightning activity in absolute units. You remain the leading expert on one of these schemes called FULLGEAR, and much progress was made in this area as a result of your Raman Post-Doctoral Fellowship (2016-2017) that enabled you to return to MIT for an extended period. This work has also led to productive international collaboration with another group in Hungary engaged in inversion work. Your visiting scientist opportunity at MIT in 2019 was particularly helpful in moving toward validation of the Schumann resonance inversion results on individual days.

Your group investigated earlier the behavior of LIS/OTD-observed lightning activity in the transition between phases of ENSO events (Guha et al., 2017). More recently a larger international group of Schumann resonance experts has been involved with a study on the impact of two Super El Nino events on global lightning activity that has raised important questions about the physical nature of ENSO transitions.

The new access to global ELF records has stimulated additional work by your group on the global time-of-arrival location of Q-burst lightning transients, and in the interest in documenting so-called lightning megaflashes that predominate in parts of Africa, and North and South America. The impact of large transients on the background Schumann resonances has been the interesting subject of one of your recent publications (Guha et al., JASTP, 2017). You and your students have investigated the so-called End of Storm Oscillation (EOSO) in thunderstorms in India and have recently generously shared with us your extensive findings toward identifying a possible polarity asymmetry between Type I (normal) and Type II (inverted) EOSO events.

On the incentive of a recent action of the World Meteorological Organization to make lightning a climate variable, you and your students took productive action in organizing a global dataset on thunder day observations that will serve as a valuable metric for regional and global climate change.

Regarding recent trends in global warming, you and I together have been investigating the remarkable increases in lightning activity at high latitudes, and especially in Alaska (Williams and Guha, 2019). I was pleased to participate (remotely) in the Lightning Symposium you successfully organized at Tripura University a year ago on this topic. In collaborative work with MIT post-doc Yakun Liu from China, the effects of aerosol on lightning behavior in global shipping lanes (Liu et al., GRL, 2020) and in the recent wildfire outbreak in Australia's "black summer" have been explored.

Your interest and enthusiasm have played an important role in the direction of international research activity, and we are indebted to you for your continued collaboration.

Sincerely

Earle R. Williams

Earle R. Williams

Parsons Laboratory
Building 48-211

77 Massachusetts Avenue
Cambridge, Massachusetts
02139-4307

Phone 781-981-3744
Fax 781-981-0632
Email earlerw@mit.edu
<http://cee.mit.edu/ewilliams>

28-09-2020

To
Prof. Syed Arshad Hussain
Department of Physics
Tripura University
Suryamaninagar - 799 022
Tripura, India



To whom it may concern

I am very happy to mention that we have active collaboration with your research group at Department of Physics, Tripura University and my research group at Department of Chemistry, Yamaguchi University, Japan since 2013. As a result of collaborative research we have several peer reviewed joint publications in our credit. Also researchers from your group and my group have made two successful exchange visit. I hope in near future our collaborative research will results some more fruitful outcome.

Thank you very much.

Sincerely

A handwritten signature in black ink, reading 'Jun Kawamata', is positioned above the printed name and affiliation.

Prof. Jun Kawamata
Department of Chemistry
Yamaguchi University
Yamaguchi 753-8512, Japan
Tel & Fax +81-83-933-5729
j_kawa@yamaguchi-u.ac.jp

File No. BT/468/NE/TBP/2013
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER DIVISION)

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi-110003

Dated: 13/3 /2014

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the implementation of the project under 'DBT's Twinning programme for the NE' titled "Molecular and cellular studies on normal and diabetic wound healing activities of *Parkia javanica*, a medicinal plants of Tripura, northeast India" by Dr. Samir K. Sil, Tripura University, Agartala, Tripura and Prof. Parimal Karmakar, Jadavpur University, Kolkata, West Bengal at a total cost of ₹ 63.36 lakhs (Rupees Sixty Three lakhs and Thirty Six thousand only) for a period of three years, on the terms and conditions detailed as under:

2.0 The Project:

2.1 Project Title: Molecular and cellular studies on normal and diabetic wound healing activities of *Parkia javanica*, a medicinal plants of Tripura, northeast India.

2.2 Project Investigators

2.2.1 Principal Investigator: Dr. Samir K. Sil
(Parent Institute) Associate Professor
Dept. of Molecular Genetics Laboratory, Human Physiology
Tripura University, Dimsagar
Agartala- 799001, Tripura

2.2.2 Co- Investigator I: Dr. Surajit Bhattacharya
(Parent Institute) Assistant Professor
Dept. of Molecular Biology & Bio Informatics
Tripura University,
Suryamaninagar- 799022, Tripura

2.2.3 Co- Investigator II: Dr. Swapan Majumder
(Parent Institute) Reader
Dept. of Chemistry
Tripura University,
Suryamaninagar- 799022, Tripura

2.2.4 Co- Investigator III: Dr. Biplab Ghosh
(Parent Institute) Assistant Professor
Dept. of Chemistry
Netaji Subhash Mahavidhyalaya,
Udaypur- 799022, Tripura



BIOTECH CONSORTIUM INDIA LIMITED

5th Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhyaya Marg, New Delhi-110002

Tel : 2321 9064 - 67 Fax : 011- 2321 9063

Email : info.bcil@nic.in, bcildelhi@vsnl.com Website : http://www.bcil.nic.in

BCIL/NER-BPMC/2014

March 18, 2014

The Registrar
Tripura University
Suryamaninagar,
Agartala-799022
Tripura

Dear Sir/Madam,

Sub.: Release of grant to the implementing agency of the project entitled "Studies on anticancer activities of extracts (Bromelain and Peroxidase) of different pineapple (Ananas cosmosus) cultivars of Tripura" under DBT's Twinning Programme for the NE

As you may be kindly aware, the Department of Biotechnology (DBT), Government of India, has setup a North Eastern Region-Biotechnology Programme Management Cell (NER-BPMC) for promotion of Biotechnology in the North Eastern Region of India through Biotech Consortium India Limited (BCIL), a company promoted by the Department of Biotechnology.

We are happy to inform you that the above proposal submitted by your organization has been sanctioned by DBT. Please find enclosed herewith a copy of the Sanction Order No. BT/472/NE/TBP/2013 dated March 13, 2014 of the DBT along with terms and conditions of the grant, format of UC/SE, format of asset acquired, format of memorandum of agreement, etc.

Please also find enclosed herewith a cheque no. 846134 dated 18.03.2014 for an amount of Rs. 9.93 lakhs as first year release towards implementation of the above project at your organization.

We request you to please send the signed Memorandum of Agreement (MOA) which has to be executed on Rs.100/- non-judicial stamp paper as per the format enclosed. You are also requested to send a signed copy of the terms and conditions of the grant. These signed documents may please be sent to **Dr. T. Madhan Mohan, Adviser, Department of Biotechnology (DBT), Block No. 2, 7th Floor, CGO Complex, Lodhi Road, New Delhi-110003** with in a month's time from the date of release of funds to your organization, latest by April 18, 2014.

Kindly acknowledge the receipt.

Thanking you,

Yours faithfully

(Vinod Kumar)
Deputy Manager

CC for kind information to :

1. The Vice Chancellor, Tripura University, Suryamaninagar, Agartala-799022, Tripura
2. Dr. Debassish Maitit, Associate Professor, Dept. of Human Physiology, Tripura University, Suryamaninagar, Agartala-799022, Tripura

Encl.: a/a

Administrative
(Application No: MAP/2013/241)

File No. BT/472/NE/TBP/2013
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER DIVISION)

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi-110003
Dated: 13 / 3 / 2014

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the implementation of the project under 'DBT's Twinning programme for the NE' titled "Studies on anticancer activities of extracts (Bromelain and Peroxidase) of different pineapple (Ananas comosus) cultivars of Tripura" by Dr. Debasish Maiti, Tripura University, Suryamaninagar, Tripura and Dr. Krishna Das Saha, Indian Institute of Chemical Biology, Kolkata at a total cost of ₹ 42.25 lakhs (Rupees Forty Two lakhs and Twenty Five thousand only) for a period of three years, on the terms and conditions detailed as under:

2.0 The Project:

2.1 Project Title: Studies on anticancer activities of extracts (Bromelain and Peroxidase) of different pineapple (Ananas comosus) cultivars of Tripura.

2.2 Project Investigators

- | | |
|--|---|
| 2.2.1 Principal Investigator:
(Parent Institute) | Dr. Debasish Maiti
Associate Professor
Dept. of Human Physiology
Tripura University, Suryamaninagar,
Tripura-799022 |
| 2.2.2 Co- Investigator I:
(Parent Institute) | Dr. Durgadas Ghosh
Professor
Dept. of Zoology
Tripura University, Suryamaninagar,
Tripura-799022 |
| 2.2.3 Principal Investigator:
(Collaboration Institute) | Dr. Krishna Das Saha
Principal Technical Officer
Dept. of Cancer Biology & Inflammatory Disorder,
Indian Institute of Chemical Biology,
4, Raja S.C. Mullick Road, Kolkata- 700032 |

2.3 Objectives:

1. To characterize the different enzymatic fractions of pine apple fruit.
2. To find out the cytotoxic effect of Bromelain alone and Bromelain, peroxidase in combination (extract of two cultivars of pineapple of Tripura) on different cancer cell lines mentioned above.
3. To find out the apoptotic effect of Bromelain alone and Bromelain, peroxidase in combination (extract of two cultivars of pineapple of Tripura) in the cancer cell line(s) where bromelain or the pineapple extracts are more potent.

2.4 Time Schedule:

The duration of the project is **three years** from the date of issue of sanction order.

2.5 Equipment Details:

2.5.1 Tripura University, Suryamaninagar, Tripura

(₹ in lakhs)

Sl. No.	Description of equipment	Grant Recommended (Rupees in lakhs)
1.	Water bath with shaker (digital)	0.39
2.	Protein gel electrophoresis and blotter with power pack	1.68
3.	Centrifuge	0.72
4.	Stirrer hot plate	0.18
Total		2.97

2.5.2 Indian Institute of Chemical Biology, Kolkata

Nil

2.6 Manpower:

Fellowship Conditions:

JRF emoluments shall be ₹ 16,000/- + HRA for the 1st two years and ₹ 18,000/- + HRA for the 3rd year for SRF and applicable, only if JRF/SRF is NET/GATE/BET/BINC SLET/Professional course qualified, otherwise it shall be ₹ 12,000/- + HRA for the 1st two years for JRF and ₹ 14,000/- + HRA for the 3rd year for SRF.

2.6.1 Tripura University, Suryamaninagar, Tripura

(₹ in lakhs)

S. No.	Position (No.)	Emolument	1 st Year	2 nd Year	3 rd Year	Total
1.	JRF (1)	JRF @ ₹ 16,000/- + 10 % HRA for the 1st & 2nd yr SRF @ ₹ 18,000/- + 10 % HRA for 3rd yr	2.11	2.11	2.38	6.60
Total			2.11	2.11	2.38	6.60

2.6.2 Indian Institute of Chemical Biology, Kolkata

(₹ in lakhs)

S. No.	Position (No.)	Emolument	1 st Year	2 nd Year	3 rd Year	Total
1.	JRF (1)	JRF @ ₹ 16,000/- + 30 % HRA for the 1 st & 2 nd yr SRF @ ₹ 18,000/- + 30 % HRA for 3 rd yr	2.50	2.50	2.80	7.80
Total			2.50	2.50	2.80	7.80

2.7 Budget Estimate:

The total cost of the project is ₹ 42.25 lakhs (Rupees Forty Two lakhs and Twenty Five thousand only) as per budget summary given below:

2.7.1 Tripura University, Suryamaninagar, Tripura

(₹ in lakhs)

Heads	1 st Year	2 nd Year	3 rd Year	Total
I. Non-Recurring (Equipment's and accessories)	2.97	0.00	0.00	2.97
Sub Total- I	2.97	0.00	0.00	2.97
II. Recurring				
1. Manpower	2.11	2.11	2.38	6.60
2. Consumables	3.60	3.60	3.30	10.50
3. Travel	0.50	0.50	0.50	1.50
4. Contingency	0.25	0.25	0.25	0.75
5. Overhead charges	0.50	0.50	0.50	1.50
Sub Total- II (1-5)	6.96	6.96	6.93	20.85
GRAND TOTAL (I+II)	9.93	6.96	6.93	23.82

2.7.2 Indian Institute of Chemical Biology, Kolkata

(₹ in lakhs)

Heads	1 st Year	2 nd Year	3 rd Year	Total
I. Non-Recurring (Equipment's and accessories)	0.00	0.00	0.00	0.00
Sub Total- I	0.00	0.00	0.00	0.00
II. Recurring				
1. Manpower	2.50	2.50	2.80	7.80
2. Consumables	2.50	4.50	2.58	9.58
3. Travel	0.00	0.00	0.00	0.00
4. Contingency	0.00	0.00	0.00	0.00
5. Overhead charges	0.35	0.35	0.35	1.05
Sub Total- II (1-5)	5.35	7.35	5.73	18.43
GRAND TOTAL (I+II)	5.35	7.35	5.73	18.43

(i) Grand total for 3 years (23.82+ 18.43) = ₹ 42.25 lakhs

(ii) Total for 1st year release (9.93+ 5.35) = ₹ 15.28 lakhs

2.8 Other Terms & Conditions:

- 2.8.1** The other terms and conditions governing this sanction are attached at **Annexure-I**.
- 2.8.2** A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institute on a ₹ 100/- stamp paper in the format given at **Annexure II** and the subsequent releases will be made only after signing of MoA by the grantee institute and its acceptance by DBT. All pages need to be signed by the PI and the forwarding authority and the MoA returned to DBT within 30 days of issue of this letter.
- 2.8.3** The Non-recurring items must be procured and installed within 6 month period from the date of sanction.
- 2.8.4** In case the amount of grant-in-aid is refunded, the whole or a part amount of the grant, with an interest at 10% per annum there on shall be recovered.
- 2.8.5** No international travel will be undertaken from the sanctioned project grant unless specified otherwise.
- 2.8.6** The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilization Certificate and statement of Expenditure. The interest so earned will be treated as created to the institute / Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Account.

2.9 Additional Terms & Conditions, specific for Twinning R&D program for NER:

- 2.9.1** Both NER & Rest of India (RoI), Institutions scientists should work together for the objectives stated in the sanction of the project and any deviation from this would attract closure of the project at any point of time.
- 2.9.2** In the project review meetings, both the PI's from NER & RoI Institutions should participate & make presentation.
- 2.9.3** The outcomes of the project such as research papers, patents, copy rights etc. should be made jointly.
- 2.9.4** The NER Scientists are to be trained at the collaborating institute appropriately to empower the NER Scientists.
- 2.9.5** The project personal such as Research Associate, JRF/SRF, Research Assistant are also to be trained at least once in the collaborating national institute.
- 2.9.6** The collaborating institute scientist should visit NER institutions more frequently to guide NER scientists in design and conduct of experiments.
- 2.10** This issues under the powers delegated to this Department and with the concurrence of IFD, DBT vide their Dy No. 102/I.F.D/SAN/2628-2643/ 2013-14 Dated 02/09/2013.
328-389
- 2.10.1** This sanction order has been noted at **Serial No.....** in the Register of Grants.

2.10.2 The accounts of grantee institution shall be open to inspection by sanctioning auditory / audit.

3.0 M/S Biotech Consortium India Ltd (BCIL), Anuvrat Bhawan, 210, Deen Dayal Upadhyay Marg, New Delhi- 110002, is administrating the North Eastern Region Biotechnology Programme Management Cell (NER-BPMC) of the DBT.

Vaishali Panjabi

(Dr. Vaishali Panjabi)
Scientist 'C'

To,

The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi - 110003

Copy to:

1. The Principal Director of Audit (Scientific Department), AGCR Building, New Delhi - 110 002.
2. Cash Section, DBT (For information only).
3. Sanction Folder.
4. IFD, DBT.
5. The Registrar, Tripura University, Suryamaninagar, Tripura-799022.
6. The Vice-Chancellor, Tripura University, Suryamaninagar, Tripura-799022.
7. The Director, Indian Institute of Chemical Biology, 4, Raja S.C. Mullick Road, Kolkata-700032.
8. Dr. Debasish Maiti, Associate Professor, Dept. of Human Physiology, Tripura University, Suryamaninagar, Tripura-799022.
9. Dr. Krishna Das Saha, Principal Technical Professor, Dept. of Cancer Biology & Inflammatory Disorder, Indian Institute of Chemical Biology, 4, Raja S.C. Mullick Road, Kolkata- 700032.
10. Concern file.
11. The Managing Director, Biotech Consortium India Limited, (NER-BPMC), 5th Floor, Anuvart Bhawan, 210, Deen Dayal Upadhyay Marg, New Delhi- 110002.

Vaishali Panjabi

(Dr. Vaishali Panjabi)
Scientist 'C'

File No. BT/472/NE/TBP/2013
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER DIVISION)

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi-110003
Dated: 13 / 3 / 2014

ORDER

In continuation of this department's sanction order of even number dated 13 / 3 / 2014, sanction of the President of India is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the release of first year grant of ₹ 9.93 lakhs (Rupees Nine lakhs and Ninety Three thousand only) to The Registrar, Tripura University, Suryamaninagar, Tripura implementation of the project under 'DBT's Twinning Program for the NE' titled "Studies on anticancer activities of extracts (Bromelain and Peroxidase) of different pineapple (*Ananas comosus*) cultivars of Tripura" Dr. Debasish Maiti, Tripura University, Suryamaninagar, Tripura and Dr. Krishna Das Saha, Indian Institute of Chemical Biology, Kolkata, as per the details given below:

(₹ in lakhs)	
Heads	1 st Year
I. Non-Recurring (Equipment's and accessories)	2.97
Sub Total- I	2.97
II. Recurring	
1. Manpower	2.11
2. Consumables	3.60
3. Travel	0.50
4. Contingency	0.25
5. Overhead charges	0.50
Sub Total- II (1-5)	6.96
GRAND TOTAL (I+II)	9.93

(Rupees Nine lakhs and Ninety Three thousand only)

2. The other terms and conditions governing the financial sanction will remain unaltered.
3. The Non-recurring items must be procured and installed within 6 month period from the date of sanction.
4. The account of the guarantee institution shall be open to inspection by the sanctioning authority/audit.

5. M/s Biotech Consortium India Ltd., Anuvrat Bhawan, 210, Deen Dayal Upadhyay Marg, New Delhi-110 002, who is administrating the North Eastern Region Biotechnology Program Management Cell (NER-BPMC) of the department, is hereby authorized to disburse the amount of ₹ 9.93 lakhs (Rupees Nine lakhs and Ninety Three thousand only), as referred in Para 1 above, in favor of "The Registrar, Tripura University, Suryamaninagar, Tripura-799022" by an account payee cheque/demand draft under scheme North Eastern Region Biotechnology Program.
6. This issues under the powers delegated to this Department and with the concurrence of IFD, DBT vide their Dy No. 102/I.F.D/SAN/2628-2643/ 2013-14 Dated 02/09/2013.
7. This sanction order has been noted at Serial No. ³⁸⁸..... in the Register of Grants.
8. Being the first release of the project, Utilization Certificate is not applicable.
9. In case the amount of grant-in-aid is refunded, the whole or a part amount of the grant, with an interest at 10% per annum there on shall be recovered.
10. No international travel will be undertaken from the sanctioned project grant unless specified otherwise.
11. **Additional Terms & Conditions for Twining R&D program for NER:**
 - a. Both NER & Rest of India (RoI), Institutions scientists should work together for the objectives stated in the sanction of the project and any deviation from this would attract closure of the project at any point of time.
 - b. In the project review meetings, both the PI's from NER & RoI Institutions should participate & make presentation.
 - c. The outcomes of the project such as research papers, patents, copy rights etc. should be made jointly.
 - d. The NER Scientists are to be trained at the collaborating institute appropriately to empower the NER Scientists.
 - e. The project personal such as Research Associate, JRF/SRF, Research Assistant are also to be trained at least once in the collaborating national institute.
 - f. The collaborating institute scientist should visit NER institutions more frequently to guide NER scientists in design and conduct of experiments.

Vaishali Panjabi
(Dr. Vaishali Panjabi)
Scientist 'C'

To,

The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi- 110 003.

Copy to:

1. The Principal Director of Audit (Scientific Department), AGCR Building, New Delhi - 110 002.
2. Cash Section, DBT (For information only).
3. Sanction Folder.
4. IFD, DBT.
5. The Registrar, Tripura University, Suryamaninagar, Tripura-799022.
6. The Vice-Chancellor, Tripura University, Suryamaninagar, Tripura-799022.
7. Dr. Debasish Maiti, Associate Professor, Dept. of Human Physiology, Tripura University, Suryamaninagar, Tripura-799022.
8. Concern File.
9. The Managing Director, Biotech Consortium India Limited, (NER-BPMC), 5th Floor, Anuvart Bhawan, 210, Deen Dayal Upadhyay Marg, New Delhi- 110002.

Vaishali Panjabi

(Dr. Vaishali Panjabi)
Scientist 'C'



BIOTECH CONSORTIUM INDIA LIMITED

5th Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhyaya Marg, New Delhi-110002

CIN: U73100DL1990PLC041486 Tel: 2321 9064 - 67 Fax: 011- 2321 9063

Email: info.bcil@nic.in, bcildelhi@vsnl.com Website: http://www.bcil.nic.in

BCIL/NER-BPMC/2015/

October 15, 2015

The Registrar,
Tripura University,
Suryamaninagar, Agartala-799022,
Tripura

Dear Sir/Madam,

Sub.: DBT's Sanction Order No. BT/526/NE/TBP/2013 dated October 14, 2015 for implementation of the project "Overcoming EGFR resistant Oral Squamous Cell Carcinomas with traditional healers of Tripura - A preclinical study" at your organization: Release of 2nd year grant

As you may be kindly aware, the Department of Biotechnology (DBT), Government of India, has setup a North Eastern Region-Biotechnology Programme Management Cell (NER-BPMC) for promotion of Biotechnology in the North Eastern Region of India through Biotech Consortium India Limited (BCIL), a company promoted by the Department of Biotechnology.

We are pleased to inform you that DBT has sanctioned 2nd year grant towards implementation of the above project at your organization. Please find enclosed herewith a copy of the Release Order No. BT/526/NE/TBP/2013 dated October 14, 2015.

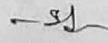
Our Accounts Division has transferred an amount of Rs. 6.04 Lakhs as Second year release towards implementation of the above project at your organization as per the following bank details:

Fund Receiving Authority: Registrar, Tripura University
Account Holder Name: TU-EARMARKED FUND
Name of the Bank: State Bank of India, Tripura University Campus
Bank Account Number: 30371209938
IFSC Code: SBIN0010495

Kindly acknowledge the receipt.

Thanking you,

Yours faithfully


(Vinod Kumar)
Deputy Manager

CC for kind information to:

Dr. Utpal Chandra De
Assistant Professor,
Dept. of Chemistry,
Tripura University,
Suryamaninagar, Agartala-799022,
Tripura



DST/IS-STAC/CO₂-SR-230/14(G)-AICP-AFOLU-VII
Government of India/Bharat Sarkar
Ministry of Science and Technology
Department of Science and Technology

Technology Bhavan
New Mehrauli Road
New Delhi-110016
Date: 11.09.2015

Sub: Financial assistance for the project entitled ***“Assessment of Carbon Stock and Carbon Sequestration Potential in Major Land Use Sectors of Tripura”*** to be implemented by Department of Forestry & Biodiversity, Tripura University (PI- Dr. Sourabh Deb) – Approval of the proposal and release of grants for the first year

Sanction of the President is hereby accorded to the above mentioned project at a **total cost of ₹45,10,258/- (Rupees forty five lakhs ten thousand two hundred fifty eight)** only with a break-up of **₹6,13,838/- under capital head and ₹38,96,420/- under General head for a duration of three years**. The items of expenditure for total allocation of **₹45,10,258/-** has been approved for a period of three years, are given below:

Head	I Yr	II Yr	III Yr	Total
	₹	₹	₹	₹
A. Recurring				
Manpower 2 JRF @₹25000/month, 28000/month (3 rd year) + HRA @10%, 1 FA @ 8000/month	7,56,000	7,56,000	8,35,200	23,47,200
Travel	1,25,000	1,50,000	1,20,000	3,95,000
Contingencies	1,00,000	1,00,000	1,00,000	3,00,000
Consumables	2,00,000	2,00,000	1,00,000	5,00,000
Subtotal:	11,81,000	12,06,000	11,55,200	35,42,200
B. Non- Recurring		--		
Computer(at 29/c)	50,000			50,000
Muffle Furnace (at 31/c)	86,000			86,000
Hot Air Oven (at 32/c)	79,000			79,000
Nitrogen Estimation System (at 33-38/c)	3,98,838			3,98,838
Subtotal:	6,13,838	---	----	6,13,838
OH charges @ 10 %	1,18,100	1,20,600	1,15,520	3,54,220
Grand Total:	19,12,938	13,26,600	12,70,720	45,10,258

Total Project Cost: ₹ 45,10,258/-

- Overhead expense is meant for the host institute towards the cost for providing infrastructural facilities and benefits to the staff employed in the project.
- Sanction of the President is also accorded for the payment of **₹6,13,838/- under ‘Grants for creation of capital assets’** and **₹12,99,100/- only under ‘Grants-in-aid General to Registrar, Tripura University, Suryamaninagar – 799022, Agartala, Tripura** being the first installment of the grant for the year 2015-16 for implementation of the said research project.
- This grant is subjected to the terms and conditions as detailed in Annexure-I (enclosed) and also can be downloaded from the website www.serc-dst.org.
- The amount of **₹12,99,100/- (Rupees twelve lakhs ninety nine thousand one hundred)** only under **‘Grants-in-aid General’** will be drawn by the Drawing & Disbursing Officer (DDO), DST and will be disbursed to the Registrar, Tripura University by means of RTGS as per bank details given below:



बिभूरा त्रिपुरा TRIPURA

00AA 529122

3/11/14
Registrar,
Tripura University
Suryamaninagar-799022

MEMORANDUM OF UNDERSTANDING

This MEMORANDUM OF UNDERSTANDING is made on the **Third** day of **November, 2014** at Agartala

between

TRIPURA UNIVERSITY (a Central University) having office address at- P.O. Suryamaninagar, PIN-799022, P.S.- Amtali, District- West Tripura, State- Tripura; established under the Tripura University Act, 2006 being authorised and represented presently by it's Joint Registrar (Registrar In-Charge) **Dr. Kalyan Bijoy Jamatia**, an Indian Citizen.

....hereinafter referred to as 'Tripura University' or 'the University', which expression, unless repugnant to the context or meaning thereof includes its successors in business and permitted assignees) as party of the FIRST PART.

2

Tripura
Suryan

Society for Applied Microwave Electronics Engineering and Research, an autonomous society under the Ministry of Communication and Information Technology, Government of India, and having its office address at: I.I.T. Campus, Hill Side, Powai, Post Box No: 8448 Mumbai, Maharashtra, India Pincode – 400076; represented through it's Head, Industrial & Meteorological Systems Division, **Mr. Anil A. Kulkarni**, (Scientist-F), as authorised signatory for and on behalf of **“Society for Applied Microwave Electronics Engineering and Research”**;

.....(herein referred to as the SAMEER) which expression shall unless repugnant to the context or meaning thereof, be deemed to mean and include its representatives, administrators, successors, permitted assignees, and executors of the SECOND PART.

Whereas the Department of Physics of Tripura University and SAMEER propose to work together on ***“Installation of indigenously developed Lightning Detection Network in North-East India & development of Lightning Location Algorithm”***, hereinafter referred to as **collaborative work**, funded by **Department of Electronics and Information Technology Government of India, under the North East Initiative.**

AND WHEREAS Tripura University is interested in developing and using ***Lightning Detection Network system*** for research purpose and SAMEER having the expertise in the development of Atmospheric Instrumentation would primarily develop the ***Lightning Detection Nodes.***

AND WHEREAS, the Memorandum of Understanding (MOU) defines the role and responsibilities of the participating institutes, monitoring and other matters related to the collaborative work.

The parties herein agree to the following:-

1.0 ROLE OF SAMEER

SAMEER, Mumbai Shall:

1. Design and develop Lightning Detection Network for research purpose.
2. To carry out the developmental work in close collaboration with Tripura University.



Dated: 25th January 2021

Collaborative Research works


On the basis of joint agreement, with Professor R. K. Nath, Department of Chemistry, Tripura University, collaborative research works are being conducted since 2015.

The research fields of common interest like conductive polymer, their synthesis, functionalization and application as electronic material and in water treatment have been considered for collaborative work.

Joint Ph.D. guidance has also been a part of this collaboration and one Ph.D. candidate has been awarded his doctorate degree in 2020.

A number of research articles in International SCI journals have been published under this collaborative work as on date.

Based on the success and meaningful research outcome under this collaboration, I would like to continue this collaboration in future.


(Dr. Biswajit Saha)
Assistant Professor
Department of Physics

Dr. Biswajit Saha
Asst. Professor in Physics
National Institute of Technology
Agartala Govt. of India

Comparative analysis of photocaged RGDS peptides for cell patterning

Catherine A. Goubko,¹ Ajoy Basak,² Swapan Majumdar,² Harold Jarrell,³
Nam Huan Khieu,³ Xudong Cao^{1,4}

¹Department of Chemical and Biological Engineering, University of Ottawa, Ottawa, Ontario K1N 6N5, Canada

²Ottawa Hospital Research Institute, Chronic Disease Program, The Ottawa Hospital, University of Ottawa, Ottawa, Ontario K1Y 4Y9, Canada

³Institute for Biological Sciences, National Research Council Canada, Ottawa, Ontario K1A 0R6, Canada

⁴Ottawa-Carleton Institute for Biomedical Engineering, University of Ottawa, Ottawa, Ontario K1N 6N5, Canada

Received 3 May 2012; accepted 18 June 2012

Published online 8 September 2012 in Wiley Online Library (wileyonlinelibrary.com). DOI: 10.1002/jbm.a.34381

Abstract: Photocaged RGDS is a cell nonadhesive tetrapeptide that can be activated with light to become cell-adhesive. Such molecules can find useful applications in controlling cell adhesion for biological study, drug development, and in forming dynamic, adhesion-controlled biomaterials. Herein, we prepared RGDS peptide photocaged either on the Arg-Gly backbone amide nitrogen atom (R[–]GDS) or Asp side chain carboxyl (RG[D]S). A critical comparison of the peptides' chemical and physiological properties relevant for biological applications was carried out. It was observed that RG[D]S was synthesized more readily via automated solid-phase synthesis, underwent uncaging with a rate constant 3-fold higher than R[–]GDS, and was more stable in aqueous solution. Automated docking studies were performed to examine the

interactions of various caged RGDS peptides with cell surface integrin receptor to identify suitable locations for the photo-sensitive 2-nitrobenzyl (NB) group for biological applications. A competitive binding ELISA method compared the ability of various peptides to bind to $\alpha_v\beta_3$ cell integrin receptors and the data were found to be consistent with the modeling predictions. Finally, the application of our caged RGDS peptides in controlling cell adhesion to form cell patterns on a hydrogel material was presented. © 2012 Wiley Periodicals, Inc. *J Biomed Mater Res Part A* 101A: 787–796, 2013.

Key Words: RGDS peptide, 2-nitrobenzyl photocage, photochemistry, docking, cell patterning

How to cite this article: Goubko CA, Basak A, Majumdar S, Jarrell H, Khieu NH, Cao X. 2013. Comparative analysis of photocaged RGDS peptides for cell patterning. *J Biomed Mater Res Part A* 2013;101A:787–796.

INTRODUCTION

Photocaged peptides incorporated into biocompatible materials create an exciting design opportunity toward the formation of photoresponsive biomaterials. Caging allows for the regulation of peptide bioactivity and associated cell signaling pathways with light.¹ It involves attaching a photoactive protecting group onto a key amino acid residue essential for bioactivity to essentially deactivate the peptide. Reactivation occurs upon irradiation with light which breaks the bond between the photosensitive group and the original peptide.² By merely shining light onto the peptide of interest, one can potentially switch it from an inactive to an active state. In this way, light can be used to control the activity of biomolecules temporally and spatially within a material to create a dynamic microenvironment for biological applications.

Despite showing great promise, this technique faces several challenges. One of which is finding an effective location

for the photocaging group which must be predicted prior to synthesis.³ Finding a location which effectively disrupts the interaction between biomolecule and target can prove challenging.⁴ In fact, it is often necessary to prepare a variety of peptides caged on different locations within the peptide chain and compare the efficacy of each which can be time consuming and costly.^{5,6} In the present work, synthesis was combined with automated molecular docking studies which were found to be useful to identify effective caging locations.

We are particularly interested in caging the RGD peptide sequence which binds with the cell surface integrin receptor. Since the identification of RGD in 1980s and its role in enhancing cell adhesion, this small peptide sequence has played an enormous role in the development of new biomaterials.⁷ The ability to cage RGD peptides to render them physiologically inactive until exposure with near-UV light leads to a number of exciting applications. Others have

Additional Supporting Information may be found in the online version of this article.

No benefit of any kind will be received either directly or indirectly by the author(s)

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Contract grant sponsors: NSERC Discovery Grant, Heart & Stroke Foundation, and CIHR-HOPE fellowship grant

Identification of potent histone deacetylase 8 inhibitors using pharmacophore-based virtual screening, three-dimensional quantitative structure–activity relationship, and docking study

Tanusree Debnath¹Swapna Majumdar²Kalle M Arunasree³Vema Aparna⁴Sudhan Debnath¹¹Department of Chemistry,
MBB College, Agartala, Tripura,²Department of Chemistry, Tripura
University, Suryamanninagar, Agartala,
Tripura, ³University of Hyderabad
Gachibowli, Hyderabad, ⁴Sree
Chaitanya Institute of Pharmaceutical
Sciences, Karimnagar, India

→ Video abstract



Point your SmartPhone at the code above. If you have a
QR code reader the video abstract will appear. Or use:
http://youtu.be/NSRS_5gKcQ

Correspondence: Sudhan Debnath
Department of Chemistry, MBB College,
Agartala, Tripura (W), India 799004
Tel +91 94 3651 8210
Email bcsdebnath@gmail.com

Abstract: In recent years, histone deacetylases (HDACs) have been considered one of the promising targets for cancer chemotherapy. In the present study, a six-featured pharmacophore model with two hydrogen bond acceptors (AA), two hydrogen bond donors (DD), and two aromatic rings (RR) was developed. A predictive three-dimensional quantitative structure–activity relationship model was generated using the pharmacophore models obtained. The model has an excellent correlation coefficient and good predictive ability, as shown by the significant statistical parameters for both the training set ($R^2=0.9565$, standard deviation = 0.1171, $F=99$, and number of ligands in training set = 21) and test set ($Q^2=0.8468$, Pearson's $R=0.9363$, number of ligands in test set = 9) molecules. The pharmacophore model was employed for the virtual screening of molecules with HDAC8 activity. The screening resulted in 366 hits with predicted activity as HDAC8 inhibitors. The hits obtained from the virtual screening were subjected to a molecular docking study to identify the potent inhibitors that binds to the active site with high affinity. The molecular docking study of known inhibitors and their analysis showed that the crucial interacting amino acid residues of HDAC8 are TYR-306, HIS-142, PHE-152, TYR-100, HIE-180, PHE-207, and Zn-388. On the basis of fitness score, predicted activities, XP Glide score, ADME results, and interacting amino acid residues, ten structurally diverse hits were reported in this paper as HDAC8 inhibitors.

Keywords: pharmacophore, atom-based 3D QSAR, virtual screening, docking, ADME, HDAC8 inhibitors

Introduction

Histone deacetylases (HDACs) play an important role in the regulation of histone and nonhistone proteins; hence, they are considered to be crucial in many biological processes, such as the regulation of gene expression, the regulation of transcription,¹ cell cycle progression, and cell survival.^{2,3} Deacetylation of histones is connected with transcriptional repression, together with a reduction in the expression of tumor suppressor genes.⁴ Due to their role in various biological functions, HDAC inhibition has become a promising epigenetic target for the treatment of cancer.⁵ HDAC inhibitors (HDACis) are structurally diverse and are classified into various groups as hydroximates,^{6–8} cyclic tetrapeptides,⁹ benzamides,^{10,11} electrophilic ketones,¹² and carboxylic acids.¹³ Two HDACis (vorinostat and romidepsin) have been approved by the United States Food and Drug Administration for the treatment of cutaneous T-cell lymphoma.¹⁴ However, treatment with HDACis has demonstrated narrow clinical benefit for patients with



COMMUNICATION


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DOI: 10.1039/c4ra13419b

www.rsc.org/advances

A protic ionic liquid catalyzed strategy for selective hydrolytic cleavage of *tert*-butyloxycarbonyl amine (*N*-Boc)[†]

 Swapan Majumdar,^{*a} Jhinuk De,^a Ankita Chakraborty,^a Dipanwita Roy^b
and Dilip K. Maiti^b

A simple, mild and efficient strategy for selective hydrolytic cleavage of the *N*-*tert*-butyloxycarbonyl (Boc) group is devised using a protic ionic liquid as an efficient catalyst. The deprotection reaction proceeded well for *N*-Boc protected aromatic, heteroaromatic, aliphatic compounds, and chiral amino acid esters and peptides. A wide range of labile protecting groups such as *tert*-butyl ester, *tert*-butyl ether, benzyloxycarbonyl (Cbz), TBDMS, *O*-Boc and *S*-Boc remained unaffected under the reaction conditions.

Due to environmental and economic issues as well as legislation, chemistry is driven to reduce waste, and reuse and recycle materials in order to meet the principles of green chemistry.¹ Thus the development of an environmentally benign, efficient and simple methodology for a fundamental organic transformation is in great demand. The protection and deprotection of functional groups is a common feature to synthesize multifunctionalized molecules in target oriented syntheses.² The choice of a suitable protecting group is often crucial in the context of simplifying the procedure, achieving the highest yield of the desired product, easy workup and separation. The protection of amines plays pivotal role in the synthetic organic chemistry. For instance, the *N*-Boc group is extensively used as a protecting group of amines in organic synthesis and amino acids in peptide and nucleoside chemistry. Consequently, a number of methods were developed for cleavage of the *N*-Boc group using strong acids,³ Lewis acids⁴ and microwave assisted neutral conditions⁵ to liberate the parent amine. In some cases, basic conditions⁶ such as aq. Na₂CO₃, Cs₂CO₃–imidazole and NaO^tBu have been employed. The heterogeneous catalysis promoted *N*-Boc deprotection using sulfonic acid resin,^{7a} montmorillonite K10,^{7b} silica,^{7c} heteropolyacids,^{7d} HY-zeolite^{7e}

are also reported. However, most of the reported strategies suffer from serious drawbacks such as (i) longer reaction time, (ii) high temperature, (iii) low yield of products and (iv) exploiting expensive catalysts. Moreover, preparations of some of the catalysts are very tedious. Thus, organic synthesis professionals of industries and academia seek simple, efficient and milder methods for deprotection of this most frequently used protecting group, which should be selective enough for preserving the other functionalities in the molecule. G. Wang *et al.* (2009) reported⁸ a special and efficient “green”, catalyst-free, *N*-Boc deprotection in supercritical water under pressure. In their methodology, both aromatic and aliphatic *N*-Boc amines can be converted into the corresponding amines in high yields within 2–16 h, using distilled and deionized water (20 mL mmol^{−1}) at 150 °C. J. Wang and his colleagues (2009) described⁹ a selective *N*-Boc deprotection method using boiling water as a reaction medium. In spite of the potentiality of these green methods, their major limitation is the use of sophisticated and costly technology, incompatibility of the deprotection reaction with ester functionality and longer reaction time. As an inexpensive and readily available reagent, imidazolium based protic ionic liquid has attracted considerable interest due to its less hazardous nature and efficiency in various organic transformations.¹⁰ We have reported earlier an efficient method^{11a} for the *tert*-butyloxycarbonylation of amines, amino acids/esters, alcohols and a green strategy for the selective hydrolytic cleavage of acetals and ketals^{11b} using protic ionic liquid as an effective catalyst. In this communication, we disclose the efficacy of a protic ionic liquid as a catalyst for the selective deprotection of *N*-Boc group of a wide range of achiral and chiral compounds.

In our initial experiments we choose readily available *N*-Boc aniline as a model substrate and, the results for development and optimization of the deprotection studies is displayed in Table 1. On treatment of the *N*-Boc aniline (1 mmol) with 1 mmol of Bronsted acid ionic liquid (**I** or **II**) in water–dioxane (1 : 1) at 30 °C, the deprotection did not take place (Table 1, entry 1). However on rising the temperature to 70–72 °C

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^bDepartment of Chemistry, University of Calcutta, 92, A. P. C. Road, Kolkata 700 009, India

[†] Electronic supplementary information (ESI) available. See DOI: 10.1039/c4ra13419b

RESEARCH ARTICLE

10.1002/2016JD025043

Key Points:

- The electricity parameters have discrepancy with the expected global diurnal pattern
- There are three dominant diurnal patterns during the fair-weather days
- The katabatic winds influence the of fair-weather electrical parameters

Correspondence to:

K. Jeeva,
jeeva@iigs.iigm.res.in

Citation:

Jeeva, K., S. Gurubaran, E. R. Williams, A. K. Kamra, A. K. Sinha, A. Guha, C. Selvaraj, K. U. Nair, and A. Dhar (2016), Anomalous diurnal variation of atmospheric potential gradient and air-Earth current density observed at Maitri, Antarctica, *J. Geophys. Res. Atmos.*, 121, 12,593–12,611, doi:10.1002/2016JD025043.

Received 5 MAR 2016

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Published online 5 NOV 2016

Anomalous diurnal variation of atmospheric potential gradient and air-Earth current density observed at Maitri, Antarctica

K. Jeeva¹, S. Gurubaran², E. R. Williams³, A. K. Kamra⁴, A. K. Sinha², A. Guha⁵, C. Selvaraj¹, K. U. Nair¹, and Ajay Dhar²

¹Equatorial Geophysical Research Laboratory, Indian Institute of Geomagnetism, Tirunelveli, India, ²Indian Institute of Geomagnetism, New Panvel, India, ³Department of Civil and Environmental Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA, ⁴Indian Institute of Tropical Meteorology, Pune, India, ⁵Department of Physics, Tripura University, Agartala, India

Abstract The scope of this paper is to explore the mechanisms operating over Maitri (70.76°S, 11.74°E, 117 m above mean sea level), a coastal Antarctic station, that produce an anomalous fair-weather diurnal pattern of the atmospheric electric potential gradient (PG) and air-Earth current density (AEC). The anomaly in the diurnal variations of AEC and the PG is displaying an ostensible minimum at ~10 UT and a diminished response to the thunderstorm over the African continent in the 14–16 UT time frame. The data sets (2005–2014, except 2012) of the PG, and to some extent, AEC, from Maitri, are used to explore this anomaly. It follows that the fair-weather electrical phenomena over Maitri can be ascribed to global electrified convection on the one hand and to regional phenomena like convection due to the replacement of warm air by katabatic winds on the other hand. The katabatic winds originate on the polar plateau and blow from ~130° at Maitri which are likely to transport various elements from the mountain slopes, and space charge from the polar plateau is expected to produce various disturbances in the PG and AEC monitored over the coastal Antarctica. This mechanism may be responsible for peaks in the early UT hours and also for the anomalous behavior of atmospheric electrical parameters observed at Maitri. Maitri data are compared with that of Carnegie cruise and Vostok to explain the source of anomaly.

1. Introduction

Monitoring of the global atmospheric electric circuit parameters is emerging as a useful tool in the study of climate changes because of its direct connection with lightning activity. They are directly related to the global electrified convection and therefore act as proxy variables for the mean global surface temperature [Markson, 1986; Markson and Price, 1999; Williams, 1992, 2005; Price, 1993]. It is also considered to be an important study to understand the relationship changes in the global circuit and space weather [Rycroft et al., 2000, 2012]. The atmospheric electricity data, for such a study, should not be contaminated by any local anthropogenic and meteorological disturbances. Monitoring the atmospheric electricity parameters over the ocean, the data obtained during the 1915–1928 Carnegie Expedition [Whipple and Scrase, 1936] were found to be stable and systematic probably because there was no contamination from meteorological disturbances and radioactivity sources that were typical over the continental stations. Furthermore, aerosol concentrations over the oceans are markedly more dilute in comparison to the situation over land. In addition, it was believed that the fair-weather global signatures of the electrical parameters could be monitored from the remote continent, Antarctica, for the following reasons [Cobb, 1977]: (1) anthropogenic influences are nearly absent; (2) the surface of Antarctica is expected to be smoother than the typical continental surface, and as a result the air turbulence is negligible; and (3) the absence of radioactive soil. Deshpande and Kamra, [2001] cited three additional points. They are the following: (1) the weather remains clear for 70% of the time; (2) high surface winds which generally prevail over the continent generate mechanical turbulence by friction with the rough bare ground that is almost nonexistent or very much less intense; and (3) deep temperature inversions suppress the local atmospheric convection. Being an area of large-scale subsidence, the convective turbulence is very small.

Given these prevalent conditions over Antarctica, measurements from Amundsen and Scott (South Pole station) and Vostok (the interior continental stations over the Antarctic Plateau) proved to be suitable

Memorandum of Understanding

For

IRNSS Navigation Receiver Field Trial and Data Collection

Between

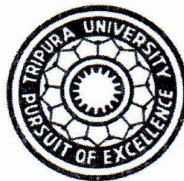
Space Applications Centre

Indian Space Research Organization

Department of Space, Government of India

Ahmedabad - 380015

And



Tripura University

(A Central University)

Suryamaninagar, Tripura West, Pin-799022



This MOU is entered into on 15th day of September, 2016

BETWEEN

Space Applications Centre, Jodhpur Tekra, Ambawadi Vistar P.O., Ahmedabad, 380015, a centre of Indian Space Research Organization, Department of Space, Government Of India (hereinafter called "SAC" which expression shall where the context so admits include its successors and permitted assignees) of the one part,

AND

Department of physics, Tripura University (a Central University) having address at-P.O. Suryamaninagar, PIN-799022, P. S Amtali, District: West Tripura, State - Tripura, Country - India; established under the Tripura University Act, 2006 being represented by its REGISTRAR or Registrar designated (being empowered to do so).

Hereinafter in short called as "TU-Physics" (which expression shall unless it be repugnant to the context or meaning thereof mean and include its legal representatives, successors, administrators and permitted assignees) of the Other Part.



DBT-NER/Agri/29/2015 (Group-6)
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER BPMC)

Recurring

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi - 110003
Dated: 14/03/2019

ORDER

In continuation of this department's sanction order of even number dated 19/10/2016, sanction of the President of India is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the release of third year grant of ₹ 29.11 lakhs (Rupees Twenty Nine lakhs and Eleven Thousand only) for the 'DBT's Program for the NE' titled "Microbial role in yield management of scented rice of North East India" by Dr. N. C. Talukdar, Institute of Advanced Study in Science and Technology, Guwahati, Assam; Dr. Debananda S. Ningthoujam, Manipur University, Imphal, Manipur; Dr. Piyush Pandey, Assam University, Silchar, Assam; Dr. B. N. Singh, National Botanical Research Institute, Lucknow; Dr. Ajay Krishna Saha, Tripura University, Agartala, Tripura and Prof. N. K. Dubey, Banaras Hindu University, Varanasi, Uttar Pradesh, as per the details given below:

a. The Registrar, Manipur University, Imphal, Manipur

		(₹ in lakhs)
Sl. No.	Items	3 rd Year
Recurring		
1.	Manpower	4.28
2.	Consumables	0.00
3.	Travel	0.00
4.	Contingency	0.00
5.	Overhead	0.32
SUB TOTAL		4.60

(Rupees Four lakhs and Sixty Thousand only)

*Interest earned of Rs. 0.11 lakhs is re-appropriated to Overhead.

**Excess Balance of Rs. 0.57 lakhs under consumables head is re-appropriated to overhead.

b. The Registrar, Tripura University, Tripura.

		(₹ in lakhs)
Sl. No.	Items	3 rd Year
Recurring		
1.	Manpower	4.10
2.	Consumables	3.00
3.	Travel	0.40
4.	Contingency	0.50
5.	Overhead	0.48
SUB TOTAL		8.48

(Rupees Eight lakhs and Forty Eight Thousand only)

M. D. Adhikari



BIOTECH CONSORTIUM INDIA LIMITED

5th Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhyaya Marg, New Delhi-110002
CIN: U73100DL1990PLC041486 Tel : 2321 9064 - 67 Fax : 011- 2321 9063
Email : info.bcil@nic.in Website : http://www.bcil.nic.in

BCIL/NER-BPMC/2016/

October 27, 2016

The Registrar,
Tripura University,
Suryamaninagar,
Tripura- 799022,
Agartala

Dear Sir/Madam,

Sub.: Release of grant to the implementing agency for the project entitled "Microbial roles in yield management of scented rice of north east India" under DBT's Twinning Program for the NE

As you may be kindly aware, the Department of Biotechnology (DBT), Government of India, has setup a North Eastern Region-Biotechnology Programme Management Cell (NER-BPMC) for promotion of Biotechnology in the North Eastern Region of India through Biotech Consortium India Limited (BCIL), a company promoted by the Department of Biotechnology.

We are happy to inform you that the above proposal submitted by your organization has been sanctioned by DBT. Please find enclosed herewith a copy of the Sanction Order No. DBT-NER/AGRI/29/2015 (Group-6) dated October 19, 2016 of the DBT along with terms and conditions of the grant, format of UC/SE, format of asset acquired, format of memorandum of agreement, etc.

Our Accounts Division has transferred an amount of Rs. 28.01 lakhs as first year release towards implementation of the above project at your organization as per the following bank details:

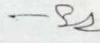
Account Holder's Name: Registrar, Tripura University
Bank and branch: State Bank of India, Tripura University Campus
Account No.: 30371209938
IFSC code: SBIN0010495

We request you to please send the signed Memorandum of Agreement (MOA) which has to be executed on Rs. 100/- non-judicial stamp paper as per the format enclosed. You are also requested to send a signed copy of the terms and conditions of the grant. These signed documents may please be sent to **Dr. T. Madhan Mohan, Adviser, Department of Biotechnology (DBT), Block No. 2, 7th Floor, CGO Complex, Lodi Road, New Delhi-110003** within a month's time from the date of release of funds to your organization, latest by November 26, 2016.

Kindly acknowledge the receipt.

Thanking you,

Yours faithfully


(Vinod Kumar)
Manager

CC for kind information to:

- 1) The Vice-Chancellor, Tripura University, Suryamaninagar, Tripura- 799022, Agartala.
- ✓ 2) Dr. Ajay Krishna Saha, Professor, Department of Botany, Tripura University, Suryamaninagar, Tripura- 799022, Agartala.
- 3) Dr. Shaon Ray Chaudhuri, Associate Professor, Department of Microbiology, Tripura University, Suryamaninagar, Tripura- 799022, Agartala.



1st
Doubt

Socio- Economic Impact Assessment of Bamboo Farming in West Tripura

A Case Study of Hezamara and Mohanpur Blocks

**A Study Report by Dr. Sharmila Chhotaray, Manusri Jamatia, Chayanika
Paul, Anasmita Ghosh, Lalnundika Darlong & Bibaljoy Reang**

**Department of Sociology, Tripura University
(A Central University)**

2016

1. MOA between DBT and Tripura University for the project “Microbial enzyme based natural fiber (Ramie) finishing: an eco-friendly approach”



त्रिपुरा TRIPURA

268754

MEMORANDUM OF AGREEMENT

This MEMORANDUM OF AGREEMENT is made on this 8th day of November, Two thousand and Sixteen BY AND BETWEEN President of India, acting through, The Advisor, Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi, hereinafter referred to as the 'DBT' (which expression unless excluded by or repugnant to the subject shall mean and include its successor-in-office and assigns) of the ONE PART;

AND

Tripura University (Tripura University Act 2006), having its registered office in at Tripura University, Permanent campus, Suryamaninagar-799022, Agartala, Tripura, West India- hereinafter referred to as Tripura University (which expression shall where the context so admits include its successors and permitted assigns) of the OTHER PART;

WHEREAS DBT being desirous of promoting research in Agricultural Science under the Twinning programme for the NE decided to support a project submitted by Tripura University for the attainment of the objectives, hereinafter described in the Annexure I annexed hereto;

Shree Ray Choudhury
8/11/16

8/11/16

This Memorandum of Agreement (MoA) defines the role and responsibilities of the participating agencies, monitoring and other matters related to the "Microbial enzyme based natural fiber (Ramie) finishing: an ecofriendly approach"

NOW THE PARTIES HERETO AGREE AS FOLLOWS:-

1.0. ROLE OF DEPARTMENT OF BIOTECHNOLOGY, NEW DELHI

To provide funds to the extent of '63.60 Lakhs over a period of three years from the date of sanction of the project, to Tripura University for undertaking activities as detailed in Annexure I. Details of the funds to be provided are given in Annexure II.

2.0. ROLE OF TRIPURA UNIVERSITY (Institute/NGO)

- 2.1. To provide their contribution of Nil for three years from date of sanction of the project as detailed in Annexure - II. (if a jointly supported project)
- 2.2. To provide existing facilities as mentioned in the project document.
- 2.3. To be responsible for accomplishing objectives identified and activities listed.
- 2.4. To allow the Scientists authorized by DBT to work with the Research & Development team of the center in all stages of process development and production.
- 2.5. To recruit all scientific and non-scientific staff as sanctioned by DBT.
- 2.6. To prepare and submit all periodical reports and other documents that would be required by DBT.
- 2.7. To maintain a separate audit head of account for the grants received from DBT for the project.
- 2.8. To submit an annual audited statement of expenditure incurred under the project.
- 2.9. To ensure effective utilization of the grant given by DBT for the purpose for which it was granted and to ensure timely progress of project work.
- 2.10. The manpower, both scientific and non-scientific, recruited shall be purely on contractual terms & conditions such that the contract for engagement of the manpower shall run concurrently with the said project period only.

3.0. DURATION OF PROJECT

- 3.1. Duration of project shall be three years from the date the Project has been sanctioned by DBT.

4.0. RIGHTS OF OWNERSHIP/TECHNOLOGY TRANSFER AND UTILIZATION

Saron Ray Choudhury

Bin
8/11/16



BIOTECH CONSORTIUM INDIA LIMITED

5th Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhyaya Marg, New Delhi-110002

CIN: U73100DL1990PLC041486 Tel : 2321 9064 - 67 Fax : 011- 2321 9063

Email : info.bcil@nic.in Website : http://www.bcil.nic.in

BCIL/NER-BPMC/2017/164

March 14, 2017

The Registrar,
Tripura University,
Suryamaninagar,
Tripura- 799022,
Agartala

Dear Sir/Madam,

Sub.: Release of grant to the implementing agency for the project entitled "Screening of the anti leukemic and anti oxidant potential of medicinal plants of Tripura: leading to chemical identification of the lead molecules" under DBT's Program for the NE

As you may be kindly aware, the Department of Biotechnology (DBT), Government of India, has setup a North Eastern Region-Biotechnology Programme Management Cell (NER-BPMC) for promotion of Biotechnology in the North Eastern Region of India through Biotech Consortium India Limited (BCIL), a company promoted by the Department of Biotechnology.

We are happy to inform you that the above proposal submitted by your organization has been sanctioned by DBT. Please find enclosed herewith a copy of the Sanction Order No. BT/PR15965/NER/95/37/2015 dated January 20, 2017 of the DBT along with terms and conditions of the grant, format of UC/SE, format of asset acquired, format of memorandum of agreement, etc.

Our Accounts Division has transferred an amount of Rs. 15.20 lakhs as first year release towards implementation of the above project at your organization as per the following bank details:


Account Holder's Name: Registrar, Tripura University
Bank and branch: State Bank of India, Tripura University Campus
Account No.: 30371209938
IFSC code: SBIN0010495

We request you to please send the signed Memorandum of Agreement (MOA) which has to be executed on Rs. 100/- non-judicial stamp paper as per the format enclosed. You are also requested to send a signed copy of the terms and conditions of the grant. These signed documents may please be sent to **Dr. T. Madhan Mohan, Adviser, Department of Biotechnology (DBT), Block No. 2, 7th Floor, CGO Complex, Lodi Road, New Delhi-110003** within a month's time from the date of release of funds to your organization, latest by April 14, 2017.

Kindly acknowledge the receipt.

Thanking you,

Yours faithfully


(Vinod Kumar)
Manager

CC for kind information to:

- 1) The Vice-Chancellor, Tripura University, Suryamaninagar-799022, Tripura
- ✓ 2) Prof. Badal Kumar Datta, Professor, Dept. of Botany, Tripura University, Suryamaninagar-799022, Tripura



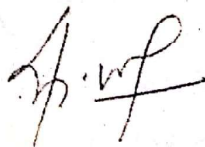
No. BT/PR12956/NDB/39/504/2015
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (6-8th Floors)
CGO Complex, Lodhi Road,
New Delhi- 110 003
Date: 27.02.2017

RELEASE ORDER

In continuation of this Department's sanction order of even number dated 27.02.2017 sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. **24088080.00** (Rupees Two Crores Forty Lakhs Eighty Eight Thousand and Eighty Only) being the first year release for the project entitled "**Establishment of a Culture Collection Centre in North East Region of India Phase II**", being implemented by:

1. Dr. Amit Kumar Rai, Regional Centre of Institute of Bioresources and Sustainable Development, 5th Mile, Metro Point, National Highway 31A, Tadong,, Gangtok - 737102, Sikkim
2. Dr. Debajit Thakur, Institute of Advanced Study In Science & Technology, Paschim Boragaon, Garchuk,, Guwahati Assam - 781035, Assam
3. Dr. Debananda S Ningthoujam, Manipur University, Indo Myanmar Road, NH-39, Koirou Village, Imphal - 795003, Manipur
4. Prof. Dinabandhu Sahoo, Institute of Bioresources And Sustainable Development, Takyelpat Institutional Area, Imphal - 795001, Manipur
5. Dr. Panna Das, Tripura University, Suryamaninagar, Agartala - 799022, Tripura
6. Dr. S Singh Sureshkumar, North Eastern Regional Institute of Science And Technology, New Degree Block,, Itanagar - 791109, Arunachal Pradesh
7. Dr. Santa Ram Joshi, North-Eastern Hill University, Shillong, Mawkynroh, Umshing,, Shillong - 793022, Meghalaya
8. Dr. Shaon Chaudhuri Ray, Tripura University, Suryamaninagar, Agartala - 799022, Tripura
9. Dr. Talijungla, Nagaland University, Lumami,, Zunheboto - 798627, Nagaland



Tripura University, India

To Whom it may concern,

I kindly inform you that Dr. Anirban Guha's name has become known for me since his first visit as post-doc at Professor Earle Williams at MIT, USA in 2012-2013. In those years my cooperation with Professor Williams had already dated back almost for two decades. In this way we have got with Dr. Guha on the similar scientific platform. I personally met him in Tel Aviv, Israel during a Schumann Resonance Workshop in February, 2017. Meanwhile a closer scientific cooperation has developed on the climate relation of Schumann resonances (SR) and SR inversion to reproduce the global lightning activity. Two common publications have already been achieved and two others were submitted (see the publications listed below).

October 4, 2020



Gabriella Satori DSc

Geodetic and Geophysical Institute
Research Centre for Astronomy and Earth Sciences
Eötvös Loránd Research Network
Csatkai u. 6-8.
9400 Sopron, Hungary
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E. Prácer, T. Bozóki, **G. Satori**, J. Takátsy, E. Williams and **A. Guha**, Two Approaches for Modeling ELF Wave Propagation in the Earth-Ionosphere Cavity with Day-Night Asymmetry, IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION (submitted, 2020)

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त्रिपुरा TRIPURA

309855

AGREEMENT

This Agreement is made on this 6th day of October, 2017 at Bhubaneswar BY and BETWEEN M/s KIIT Technology Business Incubator, a Section 25 Company incorporated under the Companies Act 1956 having its registered office at Campus 11, KIIT University, Patia, Bhubaneswar, 751024, hereinafter referred to as "BIG Partner" (which expression shall wherever the context so admits include its successors and assignees) of the First Part

AND

Dr. Shoun Roy Choudhury; D/O Dr. Dipali Roy Choudhury and Late Dr. Bimalendu Roy Choudhury, resident of 188/1 M M Datta Road, New Barrackpur, West Bengal and having the project implementation site at KIIT Technology Business Incubator, Bhubaneswar as incubator, hereinafter referred to as "BIG Innovator" (which expression shall wherever the context so admits include its successors in interest, liquidators, administrators and assigns) of the Second Part

WHEREAS all the parts are hereinafter referred to as "Parties";

WHEREAS Biotechnology Industry Research Assistance Council, A Government of India Enterprise, having its office at MTNL Building, First Floor, 9, CGO Complex, Lodhi Road, New Delhi - 110 003 hereinafter referred to as the "BIRAC" operates a scheme entitled Biotechnology Ignition Grant Scheme (hereinafter referred to as "BIG Scheme") to support an innovative idea in the field of biotechnology for proof of concept.

WHEREAS, BIRAC has entrusted the BIG Partner with implementation of the BIG Scheme including necessary processing of the proposals, organizing various meetings and training programs for BIG,

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execution of the decisions taken, disbursement of funds, monitoring the physical and financial progress of the Project and to obtain reports and returns and clarifications as required from time to time from the BIG Innovators.

WHEREAS the BIG Innovator has conceived a Project entitled "Microbial Consortium based biofertilizer for increased Ramie fiber yield" and submitted a proposal with amendments (hereinafter called "the Project") - for grant-in-aid assistance under BIG Scheme as per Annexure 1;

AND WHEREAS BIRAC has approved the Project and agreed to provide assistance to the extent of Rs. 46.82 lakh (Rupees Forty Six lakhs and eighty two thousand Only) in the form of grant-in-aid to the BIG Innovator under BIG Scheme on the terms and conditions contained hereinafter in this Agreement.

All Annexures to this Agreement shall be integral part of this Agreement.

NOW THEREFORE, in consideration of the promises and mutual covenants hereinafter contained, the Parties hereto agree as follows:

1. RESPONSIBILITIES OF THE BIG INNOVATOR

a. The BIG Innovator shall:

- Carry out the activities of the Project and conform to the specified objectives, outputs, milestones, and targets;
- Meet the resources on the Project activities to the extent as agreed to, as per details given in Annexure 1;
- Submit a utilization certificate and statement of accounts duly audited and/or certified by a chartered accountant for the expenditure incurred on the Project for the half year, ending 31st March and 30th September, to BIG Partner, within a month of 31st March and 30th September for respective half year, in the format provided by BIG Partner;
- Submit a milestones progress report to BIG Partner as per the timeline and participate in the meetings organized by BIG Partner to review the progress of the Project, as and when called for;
- Obtain all the necessary requisite approvals, clearance certificates, permissions and licenses from the Government/local authorities for conducting its operations in connection with the Project;
- Keep the drawdowns from the grant-in-aid assistance in a separate no-lien account in the name of the BIG Innovator with a scheduled bank, the payments from which account shall be subject to verification by BIG Partner/BIRAC. It shall also obtain and furnish to BIG Partner a letter from the said bank foregoing the right of set off or lien in respect of such account;
- Utilize the amounts sanctioned by BIG Partner for the Project only for the purposes as specified in the Project and shall not entrust the implementation of the Project to another agency or divert the grant-in-aid assistance;
- Abide by the decision of BIG Partner/BIRAC to modify the objectives, outputs, milestones, targets, funding as also the foreclosure of the Project or of its components after mutual discussion;

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**Research Collaboration of Dr. Swanirbhar Majumder,
Department of Information Technology, Tripura University
with Sinam Ajitkumar Singh, NERIST, Arunachal Pradesh.**

1. "Short Unsegmented PCG Classification based on Ensemble Classifier" Turkish Journal Of Electrical Engineering & Computer Sciences, Turk J Elec Eng & Comp Sci,(2020) 28: 875 – 889. Copyright © 2020 doi:10.3906/elk-1905-165, E-ISSN: 1303-6203, ISSN: 1300-0632.(S. A. Singh, S. Majumder)
2. "Classification of unsegmented PCG recording using KNN classifier", Journal of Mechanics in Medicine and Biology, published by World Scientific Press, Impact factor: 0.468, ISSN (print): 0219-5194 | ISSN (online): 1793-6810. <https://doi.org/10.1142/S0219519419500258>, Vol. 19, No. 04, 1950025 (2019) DOI: 10.1142/S0219519419500258 (S. A. Singh, S. Majumder)
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**Research Collaboration of Dr. Swanirbhar Majumder,
Department of Information Technology, Tripura University
with Joyanta Basu, CDAC, Kolkata.**

1. "Speaker Identification in Spoken Language Mismatch Condition: An Experimental Study", 2020 Third International Symposium on Signal and Image Processing, October 21-22, 2020 held in Online mode In collaboration with CHRIST (Deemed to be University), Bangalore, India. (Joyanta Basu, Swanirbhar Majumder)
2. "Identification of Two Tribal Languages of India: An Experimental Study", 2nd International Conference on Artificial Intelligence and Speech Technology (AIST – 2020) Dates: 19th – 20th November, 2020 (Joyanta Basu, Theodore Raphael Hrangkhawl, Tapan Kumar Basu, Swanirbhar Majumder)
3. "Performance Evaluation of Language Identification on Emotional Speech Corpus of Three Indian Languages", pg-55-63, of Proceedings of Second Doctoral Symposium on Intelligence Enabled Research (DoSIER 2020), Organized by Visva-Bharati University, Santiniketan, India, August 12-13, 2020, as Chapter 6 of Advs in Intelligent Syst., Computing, Vol. 1279, Siddhartha Bhattacharyya et al. (Eds): Intelligence Enabled Research, 978-981-15-9289-8, 498363_1_En, (Chapter 6) http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-981-15-9290-4_6 (Joyanta Basu, Swanirbhar Majumder)
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**Research Collaboration of Dr. Swanirbhar Majumder,
Department of Information Technology, Tripura University
with Dr. A. Dinamani Singh, Associate Professor, NIT Manipur,
Imphal.**

1. "A Mathematical Modelling And 3D Simulation Of ZnO Piezoelectric Base Cantilever For Pressure Sensing", Page 37-41 of IJSTR(International Journal of Scientific & Technology Research) Volume 9 - Issue 9, September 2020 Edition - ISSN 2277-8616, (Maibam Sanju Meetei, Aheibam Dinamani Singh, Swanirbhar Majumder, Ome Moyong)
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RESEARCH ARTICLE

10.1002/2016JD025592

Key Points:

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Radiative effects of absorbing aerosols over northeastern India: Observations and model simulations

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1. Introduction

The radiative effects of anthropogenic absorbing aerosols are recognized to have significant climate implications [Intergovernmental Panel on Climate Change (IPCC), 2013], especially over the South Asian region where their abundance is high. The significant atmospheric heating and surface cooling by the absorbing aerosols would result in a positive net forcing to the Earth-atmosphere system, which can influence the atmospheric dynamics at various scales [Wang et al., 2013]. Independent of their coemissions (such as organic carbon), the forcing due to black carbon (BC) from fossil fuel and residential biofuels is known to have result in a net global warming (in the range of 0.17 to 2.1 W m^{-2}) [Jacobson, 2001; Cohen et al., 2011; etc.]. However, the forcing estimates with the inclusion of high levels of coemitted organic carbon from biomass burning have shown slightly negative climate forcing in the net industrial era but with substantial uncertainty ($\sim 90\%$ [Bond et al., 2013]). This large uncertainty persists due to the gaps in the information on the amounts of biofuel- or biomass-combusted, emission estimates of the major source regions and regional and intercontinental transport, etc. [Zhang et al., 2009; Cohen and Wang, 2014]. In addition, the lack of knowledge of the interaction of black carbon with clouds leads to further uncertainty in quantifying climate forcing of BC [Chen et al., 2010; Tao et al., 2012]. The rapid adjustment in the cloud due to BC-induced heating causes radiative imbalances. The effective radiative forcing due to the combined effect of direct radiative forcing and rapid adjustments in aerosol or cloud distribution thus accounts for a large uncertainty in understanding the efficacy of BC climate forcing. Distinct source processes, varying chemical compositions, and microphysical structures further complicate the effect and efficiency of absorbing aerosols, hence the criticality in the accurate

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The radiative effects of anthropogenic absorbing aerosols are recognized to have significant climate implications [Intergovernmental Panel on Climate Change (IPCC), 2013], especially over the South Asian region where their abundance is high. The significant atmospheric heating and surface cooling by the absorbing aerosols would result in a positive net forcing to the Earth-atmosphere system, which can influence the atmospheric dynamics at various scales [Wang et al., 2013]. Independent of their coemissions (such as organic carbon), the forcing due to black carbon (BC) from fossil fuel and residential biofuels is known to have result in a net global warming (in the range of 0.17 to 2.1 W m^{-2}) [Jacobson, 2001; Cohen et al., 2011; etc.]. However, the forcing estimates with the inclusion of high levels of coemitted organic carbon from biomass burning have shown slightly negative climate forcing in the net industrial era but with substantial uncertainty ($\sim 90\%$ [Bond et al., 2013]). This large uncertainty persists due to the gaps in the information on the amounts of biofuel- or biomass-combusted, emission estimates of the major source regions and regional and intercontinental transport, etc. [Zhang et al., 2009; Cohen and Wang, 2014]. In addition, the lack of knowledge of the interaction of black carbon with clouds leads to further uncertainty in quantifying climate forcing of BC [Chen et al., 2010; Tao et al., 2012]. The rapid adjustment in the cloud due to BC-induced heating causes radiative imbalances. The effective radiative forcing due to the combined effect of direct radiative forcing and rapid adjustments in aerosol or cloud distribution thus accounts for a large uncertainty in understanding the efficacy of BC climate forcing. Distinct source processes, varying chemical compositions, and microphysical structures further complicate the effect and efficiency of absorbing aerosols, hence the criticality in the accurate

RESEARCH ARTICLE

10.1002/2016JD025592

Key Points:

- Distinct anthropogenic and natural linkages to the spectral absorption characteristics of aerosols over northeastern India
- The western part is mostly impacted by the fossil fuel-based BC, while biomass burning contributes as much as 20–25% in the eastern part
- Fire-induced additional local convection that cause stronger vertical dispersion of absorbing aerosols during spring leads to higher atmospheric warming

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Radiative effects of absorbing aerosols over northeastern India: Observations and model simulations

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Study of Compression-Induced Supramolecular Nanostructures of an Imidazole Derivative by Langmuir–Blodgett Technique

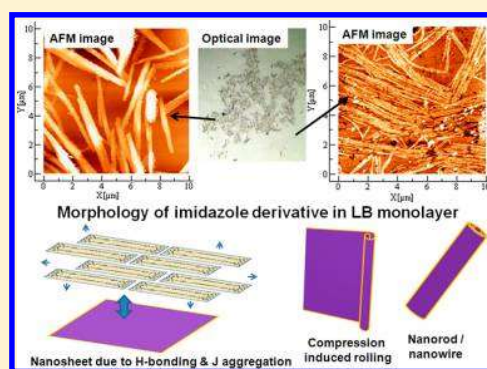
Bapi Dey,[†] Pintu Debnath,[†] Santanu Chakraborty,[‡] Barnali Deb,[§] Debajyoti Bhattacharjee,[†] Swapan Majumdar,[§] and Syed Arshad Hussain^{*,†,§}

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Supporting Information

ABSTRACT: In this communication, we report the design and synthesis as well as the supramolecular assembly behavior of a 2,4,5-triaryl imidazole derivative (compound **1**) at the air–water interface and in thin films using Langmuir–Blodgett (LB) technique. The main idea for such a chemical structure is that the long alkyl chain and N–H of the imidazole core may help to form supramolecular architecture through the hydrophobic–hydrophobic interaction and hydrogen bonding, respectively. Accordingly, the interfacial behavior as well as morphology of **1** in thin films were studied through a series of characterization methods such as surface pressure–area (π –A) isotherm, hysteresis analysis, ultraviolet–visible (UV–vis) absorption and steady-state fluorescence spectroscopies, Fourier transform infrared, X-ray diffraction, Brewster angle microscopy (BAM), and atomic force microscopy (AFM) measurements, and so forth. Pressure–area isotherm is an indication toward the formation of supramolecular nanostructures instead of an ideal monolayer at the air–water interface. This has been confirmed by the hysteresis analysis and BAM measurement at the air–water interface. AFM images of **1** in the LB monolayer exhibits the formation of supramolecular nanowires as well as nanorods. By controlling different film-forming parameters, it becomes possible to manipulate these nanostructures. With the passage of time, the nanowires come close to each other and become straight. Similarly, nanorods come close to each other and form bundles of several rods in the LB films. H-bonding, J-aggregation, as well as compression during film formation might play a key role in the formation of such nanostructures. Electrical switching behavior of compound **1** was also observed because of the presence of an electron donor–acceptor system in **1**. This type of organic switching behavior may be promising for next-generation organic electronics.



■ INTRODUCTION

Electronic and optoelectronic devices^{1–7} impact many areas of modern society from simple household appliances to communications and sophisticated medical instruments. Given the demand for ever more compact and powerful systems, there is growing interest in the development of nanoscale devices that can enable new functions and/or have greatly enhanced performance. Recent extensive studies have shown that organic nanomaterials exhibit a variety of interesting optical, electrical, photoelectric, and magnetic properties in the solid state. Accordingly, photo- and electroactive organic materials have been the subject of current research,^{8–10} including organic semiconductors, organic metals, organic superconductors, organic photoconductors, organic photoactive materials for solar cells, organic nonlinear optical materials, liquid crystals, and others. In addition, organic materials have found a number of potential applications for use in electronic and optoelectronic devices,^{11–14} such as sensors, plastic batteries, solar cells, field-effect transistors (FETs), optical data storage, organic electroluminescent devices (OLEDs),

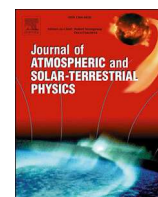
switching devices, and so forth. Over the last few decades, tremendous progress has been made in the development and investigation of such new organic materials^{15–19} with a readily polarizable structure for the fabrication of novel devices. A conjugated π -system end-capped with a strong electron donor group, such as $-\text{NR}_2$ and OR, and a strong electron acceptor group, such as $-\text{NO}_2$, cyano (CN), or imine ($\text{C}=\text{NR}$), in a molecule generates a dipolar push–pull system ($\text{D}-\pi-\text{A}$) that assures intramolecular charge transfer and low energy barrier and shows an intense charge-transfer band. The extent of electronic or optoelectronic behavior depends primarily on their chemical structure, high chemical and thermal robustness, good solubility in common organic solvents, and availability in reasonable quantities. Hence, various five- and six-membered heterocycles are utilized as suitable π -conjugated chromophore backbones because they act as auxiliary donors or acceptors and

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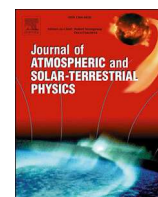
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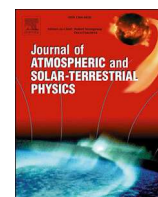
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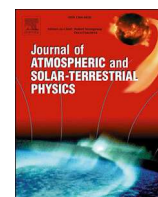
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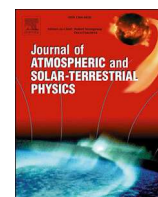
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Transient Luminous Events (TLEs)

ABSTRACT

The Earth's naturally occurring Schumann resonances (SR) are composed of a quasi-continuous background component and a larger-amplitude, short-duration transient component, otherwise called 'Q-burst' (Ogawa et al., 1967). Sprites in the mesosphere are also known to accompany the energetic positive ground flashes that launch the Q-bursts (Bocippio et al., 1995). Spectra of the background Schumann Resonances (SR) require a natural stabilization period of ~10–12 min for the three conspicuous modal parameters to be derived from Lorentzian fitting. Before the spectra are computed and the fitting process is initiated, the raw time series data need to be properly filtered for local cultural noise, narrow band interference as well as for large transients in the form of global Q-bursts. Mushtak and Williams (2009) describe an effective technique called Isolated Lorentzian (I-LOR), in which, the contributions from local cultural and various other noises are minimized to a great extent. An automated technique based on median filtering of time series data has been developed. These special lightning flashes are known to have greater contribution in the ELF range (below 1 kHz) compared to general negative CG strikes (Huang et al., 1999; Cummer et al., 2006). The global distributions of these Q-bursts have been studied by Huang et al. (1999) Rhode Island, USA by wave impedance methods from single station ELF measurements at Rhode Island, USA and from Japan Hobara et al. (2006). The present work aims to demonstrate the effect of Q-bursts on SR background spectra using GPS time-stamped observation of TLEs. It is observed that the Q-bursts selected for the present work do alias the background spectra over a 5-s period, though the amplitudes of these Q-bursts are far below the background threshold of 16 Core Standard Deviation (CSD) so that they do not strongly alias the background spectra of 10–12 min duration. The examination of one exceptional Q-burst shows that appreciable spectral aliasing can occur even when 12-min spectral integrations are considered. The statistical result shows that for a 12-min spectrum, events above 16 CSD are capable of producing significant frequency aliasing of the modal frequencies, although the intensity aliasing might have a negligible effect unless the events are exceptionally large (~200 CSD). The spectral CSD methodology may be used to extract the time of arrival of the Q-burst transients. This methodology may be combined with a hyperbolic ranging, thus becoming an effective tool to detect TLEs globally with a modest number of networked observational stations.

1. Introduction

It is known that the background and transient activity in Schumann Resonances (SR) are physically linked (Williams et al., 1999). However, it is not completely known how ELF transients affect the background SR

spectra within a stabilization period of several minutes. Mushtak and Williams (2011), Mushtak et al. (2012) and Guha et al. (2014) described how the background SR modal parameters could be sanitized by a method called Core Standard Deviation (CSD) by rejecting the time series in short segments containing the Q-bursts (see Methodology section

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Organoclay Hybrid Films With Improved Functionality

Syed Arshad Hussain¹ and Santanu Chakraborty²

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1. INTRODUCTION

Clay minerals are natural nanomaterials with layered architecture [1]. They have attracted intense industrial and academic interest because of their unique material properties, colloidal size, layered structure, large surface area, cation exchange capacity (CEC), and nanoscale platelet-shaped dimensions [2]. Research interest in organoclay nanocomposites prepared by organic–inorganic (clay) minerals is gaining day by day and is being extensively investigated in materials science [3,4]. It offers the flexibility of designing new functionalized materials because they possess characteristic behaviors such as an easily changing layer-by-layer (LbL) structure or precisely controllable film thickness, or a variety of physical properties that are not present in each of the separate components. The hybrid nanostructured materials have gained widespread interest because of their potential applications in a number of diverse technological fields. In hybrid nanostructured organic–inorganic ultrathin films the organic materials impart flexibility and versatility, whereas the inorganic clay particles provide mechanical strength and stability and can have unique conducting, semiconducting, or dielectric properties. The properties of intercalation and CEC make it easy to prepare composite materials. Intercalation of organic compounds into the interlamellar space of clay minerals has attracted wide scientific and practical interest. Thus clay particles provide a host medium to assemble and organize organic guest molecules. By studying and adjusting the host–guest interaction, materials can be designed with unique structures, novel chemical and physical properties, and enhanced mechanical properties. If the orientation of the incorporated molecules can be controlled, then the hybrid clay composite materials would be applicable to devices for current rectifying, nonlinear optics, one-way energy transfer, etc. [5–8]. To control

Sustainable Chemistry

Amberlite IR 120H⁺ Catalyzed N-C/C-N Coupled Cyclization Strategy to Give Imidazoles: Design and Fabrication of Organic Nanomaterial with AFM ImagingMithun Chakraborty,^[a] Barnali Deb,^[a] Bapi Dey,^[b] Syed Arshad Hussain,^[b] Dilip K. Maiti,^[c] and Swapan Majumdar^{*[a]}

Sustainable and highly efficient one-pot multicomponent syntheses of functionalized imidazole derivatives were described using benzil, aldehydes, ammonium acetate/or amines in the presence of Amberlite IR 120H⁺. The products were obtained in the short period of time with high yields through the chromatography-free procedure. The catalyst could be

recycled due to its insolubility in most of the solvents and reused without any noticeable decrease in its catalytic activity. The novel strategy was exploited for synthesis of a designed substituted imidazole, fabrication of its nanostructured materials on LB films and AFM imaging.

Introduction

Multicomponent reaction (MCR)^[1] is an important area of research in the field of organic and medicinal chemistry because functional and complex molecules can be achieved in the fast, efficient, time saving and operationally simple manner without isolation of intermediates. The MCR contributes sustainability through simplifying all aspects of organic synthesis. Thus, development of a new MCR is desirable for diverse syntheses of functional molecules using readily available inexpensive ingredients. Recently tri- and tetra-substituted imidazoles have received considerable attention of researchers because of their presence in the bioactive natural products as well as their therapeutic potentialities.^[2] Many of the substituted imidazoles are known as inhibitor of p38 MAP kinase,^[2c] fungicidal,^[2d] antibacterial^[2e] and antitumor^[2f] activities. Many imidazole derivatives possess rapid fluorescence switching^[3] and semiconducting material properties.^[4] These versatile applicability of imidazole derivatives prompted the synthetic organic chemists for developing efficient methods to achieve well-designed highly substituted imidazole derivatives. A number of catalytic reactions were investigated to afford 2,4,5-trisubstituted and 1,2,4,5-tetrasubstituted imidazoles. The 2,4,5-trisubstituted imidazoles were generally synthesized^[5] through three component cyclo-condensation of a 1,2-diketone, α -

hydroxyketone or α -keto-monoxime with an aldehyde and ammonium acetate in refluxing acetic acid,^[5a] using microwaves,^[5b] ionic liquids,^[5c] p-toluenesulfonic acid,^[5d] solid supported silica-sulfuric acid,^[5e] heteropolyacids,^[5f] InCl₃·3H₂O,^[5g] and NiCl₂·6H₂O/Al₂O₃.^[5h] On the other hand, the syntheses of 1,2,4,5-tetra-substituted imidazoles^[6] were carried out through four-component cyclocondensation using 1,2-diketone, α -hydroxyketone or α -keto-monoxime, aldehyde, primary amine and ammonium acetate in the presence of HBF₄–SiO₂,^[6a] SiO₂–NaHCO₃,^[6b] and ZrCl₄,^[6d] under microwave irradiation, heteropolyacid,^[5f] and HClO₄–SiO₂^[6c] catalyst. Recently nickel (II) catalyzed sp³C α –H activation of primary amines^[6e] for multi C–N bond-forming robust annulation and solvent-free heating protocol^[6f] with Ce(SO₄)₂·4H₂O were also reported. In spite of huge number of literature reports for three or four component synthesis of multi-substituted imidazoles, most of them suffer from serious drawbacks such as prolong reaction time, co-occurrence of side products, use of elevated temperature created by conventional heating or microwave, reacting with expensive reagents and toxic metal catalysts. Thus, development of a new and simple strategy is still desirable using readily available ingredients and inexpensive metal-free recyclable catalyst for direct construction of poly-substituted imidazoles with economic viability and sustainability. Current awareness, tightening environmental legislation and the interest in green chemistry, the chemical industries are driving to investigate efficient solid acid catalysts to replace conventional mineral acids. The use of solid supports, as either reagents or anchors, contributes significantly to progress and practicing green chemistry^[7] because they render the reaction more efficient and environment friendly. Solid acid reagents either polymeric or solid supported have received much attention to the researcher for implementing these reusable catalysts in different synthetic protocols. In this context polystyrene based solid acid Amberlite IR 120H⁺ (Figure 1) has many remarkable features such as air and moisture stability, simple handling,

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Supporting information for this article is available on the WWW under <http://dx.doi.org/10.1002/slct.201601596>

BT/01/17/NE/TAX
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003

Dated: 29th March, 2018

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled "Bioresource and Sustainable livelihoods in North East India" for a period of 3 Year 0 Month at a total cost of Rs. 2318.64243 lakhs (Rupees Twenty Three Crores Eighteen Lakhs Sixty Four Thousand Two Hundred and Forty Three Only) on the terms and conditions detailed here under:-

2. The Project:

2.1 Title: Bioresource and Sustainable livelihoods in North East India

2.2 Overall Project Coordinator: Dr. GanesanRengaian, Fellow, Suri Sehgal Center for Biodiversity and Conservation, Ashoka Trust for Research in Ecology and the Environment (ATREE), Bangalore

Project Co-Coordinator: Professor DinabandhuSahoo, Director, Institute of Bioresources and Sustainable Development (IBSD), Imphal, Manipur

2.3 Project Investigators:

COMPONENT 1 – INVENTORIES AND MAPPING OF BIORESOURCES IN NORTHEAST INDIA

Subproject 1: ATREE, Bangalore

Principal Investigators: 1. Dr. GanesanRengaian, ATREE, Bangalore

Co- Investigator: 1. Dr. RavikanthGudsalmanni, (ATREE), Bangalore
2. Dr. MuneeswaranMariappan, (ATREE), Bangalore

Subproject 2: Assam - Balipara Foundation, Assam

Principal Investigator: 1. Dr. Gitamani Dutta, Balipara Foundation, Assam

Subproject 3, 4, 5 Yet to be Identified:

Subproject 6:- Nagaland University, Nagaland

Principal Investigator: 1. Dr. Neizo Puro, Nagaland University, Lumami

Co-Investigator: 1. Dr. Limasenla, Nagaland University, Lumami

Subproject 7: Institute for Bioresources and Sustainable Development (IBSD), Manipur

Principal Investigator: 1. Dr. Biseshwori Thengam, IBSD, Imphal, Manipur,

Subproject 8: Mizoram University, Mizoram

Principal Investigator: 1. Dr. Bianka Zote, Mizoram University, Aizawl

Subproject 9: Tripura University, Tripura

Principal Investigator: 1. Dr. Badal Datta, Tripura University, Tripura, Agartala

Subproject 10:- North East Hill University (NEHU), Meghalaya

Principal Investigator: 1. Dr. Uma Shankar, North Eastern Hill University, Shillong

Mohd. Aslam

Release Order

File No. DBT-NER/AGRI/33/2016 (Group-1)
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER-BPMC)

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi-110003
Dated: 22 / 3 /2018

ORDER

In continuation of this department's sanction order of even number dated 22 / 3 /2018, sanction of the President of India is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the release of **First year grant of ₹ 23.30 Lakhs (Rupees Twenty Three Lakhs and Thirty Thousand only)** to The Registrar, Tripura University, Suryamaninagar, Tripura for the implementation of a network project under 'DBT's NER-Banana Program for the NE' titled "*Genome Characterization of Banana/Plantain Genetic Resources of North-eastern Region and their Utilization in Multicenter Planning for Commercial Improvement*" by Prof. Anath Bandhu Das, Utkal University, Bhubaneswar, Odisha; Prof. Rabindra Kumar Sinha, Tripura University, Suryamaninagar, Tripura and Dr. Satya Narayan Jena, National Botanical Research Institute, Lucknow, as per the details given below:

		(₹ in lakhs)
	Heads	1 st Year
I	Non-Recurring (Equipments and accessories)	15.00
	Sub Total- I	15.00
II	Recurring	
1	Manpower	3.30
2	Consumables	3.00
3	Travel	0.50
4	Contingency	0.50
5	Overhead charges	1.00
	Sub Total- II (1-5)	8.30
	GRAND TOTAL (I+II)	23.30

(Rupees Twenty Three Lakhs and Thirty Thousand only)

2. The other terms and conditions governing the financial sanction will remain unaltered.
3. The Non-recurring items must be procured and installed within 6 month period from the date of sanction.
4. "As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organisations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organisation is called upon to do so "

David del Álamo | EMBO | Meyerhofstr. 1 | 69117 Heidelberg | Germany

Dr. Pratap Chandra Acharya
Department of Pharmacy
Tripura University
Suryamaninagar-799022
Tripura (West)
Agartala 799022
India

FELLOWSHIP PROGRAMME

Dr. David del Álamo
Programme Manager

phone +49-6221-8891-122
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fellowships@embo.org

16 May 2018

EMBO Short-Term Fellowship 7702

Dear Dr. Acharya,

I am happy to inform you that EMBO has awarded you a short-term fellowship to support your visit of the lab of Alexandra Paulo in Lisbon.

(1) Please confirm your acceptance of this award within 30 days of the date of this letter; the offer of the fellowship is only valid for that period.

(2) We will also need the details of your bank account including (a) name and address of the bank, (b) the account number and name of the account holder, and (c) the SWIFT/BIC code and IBAN code if available from your bank. Please use the form attached to the email to complete this information. We will arrange your payment one or two weeks before you leave.

(3) As a recipient of an EMBO Short-Term Fellowship, you are obliged to inform our office immediately of any delays or changes in your plans. The dates of your visit on your original application are 9 June 2018 to 5 July 2018. Please let us know if these dates are still valid. Note that you are required to make an appropriate refund to EMBO in case your proposed visit is cancelled or shortened.

(4) We also need to receive a written confirmation from you at this point that you are going to immediately return to your home institute following your research visit, for a minimum of 6 consecutive months.

(5) You are also obliged to advise our office if you will be receiving any other funding from another organisation for the same research visit.

Please remember that EMBO requires a final scientific report on the work carried out during your fellowship; this should be succinct but is a condition of the award. The report should be returned to the EMBO Fellowship Office (fellowships@embo.org) within 6 months of completion of the fellowship, together with a letter by your home institute confirming your return for a duration of at least 6 months.

The EMBO Council has asked me to inform you that the present award is financially sponsored by the 33 governments which contribute to the General Programme of the EMBC.

Yours sincerely,



David del Álamo



मुंबई केन्द्र
Mumbai Centre

विश्वविद्यालय अनुदान आयोग - परमाणु ऊर्जा विभाग वैज्ञानिक अनुसंधान संकुल UGC-DAE Consortium For Scientific Research

(विश्वविद्यालय अनुदान आयोग - नई दिल्ली द्वारा स्थापित स्वशासी संस्थान)

(An autonomous institution of UGC, New Delhi)

Ref: UDCSR/MUM/AO/CRS-M-277/2017/574

Date: 18 DEC 2017

To,
Dr.Ratan Das
Assistant Professor
Department of Physics
Tripura University (A Central University)
Suryamaninagar, Agartala, Tripura (West) – 799 022

Sub: Sanction of Collaborative research Scheme titled **"Study of the magnetic structure in a few synthesized metal doped spinel ferrite nanocrystals using neutron scattering method"** (CRS-M-277)

Dear Dr. Das,

We are happy to inform you that following the Project Review Meeting held on 22nd August, 2017 at Mumbai, your above Collaborative Research Scheme (CRS) project has been sanctioned. Presently the project is sanctioned for one year w.e.f 1st January, 2018, but it may be extended after a review every year, subject to a total period of three years. The financial sanctions for the year 2018 are as follows:

Sl. No.	Head	Amount sanctioned for current year (01.01.2018 – 31.12.2018)(*)
1	Scholarship / Fellowship(#)	(**)
2	Chemicals/Consumables	30,000.00
3	Contingency	15,000.00
	Total	45,000.00
Note: No overheads are available under this scheme		

(*) Funds under scholarship will be transferred after appointment of student as per the Guidelines of UGC DAE CSR.

(**) Grants under scholarship will be transferred after appointment of student as per the guidelines of UGC-DAE CSR. If the student has already been appointed in your project and is continuing in the project, PI may please provide the appointment extension letter for release of Scholarship / Fellowship.

(#) Point no. 2.4 of guideline is to be invariably mentioned in the appointment letter issued to the student.

Guidelines regarding implementation of the CRS- Review, Appointment of Project fellow, Travel support to the PI or Student to visit BARC for performing experiments, etc. are enclosed herewith.

Dr.S.M.Yusuf (Email: debasis@barc.gov.in), Dr Debasis Sen (Email: debasis@barc.gov.in) and Dr.V.K.Aswal (Email: vkaswal@barc.gov.in), Solid State Physics Division, BARC, will be your Principal Collaborator (PC) for the above scheme. You may contact him for implementation of the scheme.

Please send us your acceptance letter by 15.01.2018. On receipt of your acceptance letter, financial grant for CRS will be sent through NEFT/ RTGS (kindly provide details in the enclosed format along with the acceptance letter) to the Registrar/Financial Authority of your Institute.

Thanking you,

Yours sincerely

[Signature]
18/12/2017
Administrative Officer

Encl : As stated

Copy to,

- 1 Registrar/Director, Tripura University, Tripura West – 799 022.
- 2 Dr.S.M.Yusuf, Head, Solid State Physics Division, BARC, Trombay, Mumbai-400 085.
- 3 Director, UGC-DAE CSR, Univ. Campus, Khandwa Road, Indore-452 017.



4 October 2020

International Collaboration with Dr. Anirban Guha

I am writing this letter to describe the international collaboration between Dr. Anirban Guha and my team at Tel Aviv University in Israel. I have known Dr. Guha for about 7 years after meeting him at an international conference on Atmospheric Electricity. We were both presenting papers at the conference, and since we both work in similar fields, we had a lot to talk about. We have remained in close contact since, and today we are working closely together on topics related to lightning, thunderstorms, atmospheric electricity and climate change.

In recent years Dr. Guha and myself applied for a joint research grant to study the link between thunderstorms and upper tropospheric water vapor. This joint research has involved mutual visits in Israel and India, and our students have also started collaborating together. The main field of our interest is related to the Schumann resonances, and Dr. Guha has become one of the world experts in this field, with additional international collaborations with scientists in the US, Europe and Japan on this topic. He has visited many countries for work and research, and has attended many research workshops and international conference around the globe, including one in Israel that I organized a few years ago.

Due to Dr. Guha's pleasant manner, and readiness to always help and collaborate, he has earned himself additional international recognition, as shown by the co-authors on some of his recent papers. Dr. Guha is also promoting a South Asian Lightning Network of research dealing with lightning safety issues to help protect the public from lightning risks. I attended a workshop in Tripura on this topics, and was impressed with the international turnout from neighboring regions (Nepal, Bangladesh, Sri Lanka, Zambia, South Africa, Malaysia, Indonesia, etc.). Hence, Dr. Guha has significant international cooperation, which appears to be expanding all the time.

If you would like any additional information, please feel free to contact me.

Sincerely,

Prof. Colin Price
Head of the Environmental Studies Department
Porter School of the Environment and Earth Sciences
Tel Aviv University

2. MOA between DBT and Tripura University for the project “Establishment of a culture collection centre in North East Region of India Phase II”



त्रिपुरा TRIPURA

365979

MEMORANDUM OF AGREEMENT

This MEMORANDUM OF AGREEMENT is made on this 8th day of June, Two thousand and Eighteen BY AND BETWEEN President of India, acting through Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi, hereinafter referred to as the “DBT” (which expression unless excluded by or repugnant to the subject shall mean and include its successor-in-office and assigns) of the ONE PART;

AND

Tripura University (Tripura University Act 2006), a society under the Societies Registration Act – 1860, having its registered office in/at Tripura University, Permanent Campus Suryamaninagar – 799 022, Agartala, Tripura, India, hereinafter referred to as Tripura University (which expression shall where the context so admits include its successors and permitted assigns) of the OTHER PART;

Sham Ray Chaudhuri

(Sanit Debroy) 23.6.18

WHEREAS DBT being desirous of promotion of Biotechnology in NE region of India decided to support a project submitted by Dr Shaon Ray Chaudhuri, Tripura University for the attainment of the objectives, hereinafter described in the Annexure I annexed hereto; This Memorandum of Agreement (MoA) defines the role and responsibilities of the participating agencies, monitoring and other matters related to the “Establishment of a Culture Collection Centre in North East Region of India Phase II.”

NOW THE PARTIES HERETO AGREE AS FOLLOWS:-

1.0 ROLE OF DEPARTMENT OF BIOTECHNOLOGY, NEW DELHI

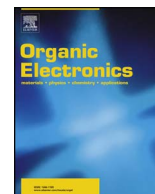
To provide funds to the extent of Rs. 27.104 Lakhs over a period of 3 years from the date of sanction of the project, to Dr Shaon Ray Chaudhuri, Tripura University for undertaking activities as detailed in Annexure I. Details of the funds to be provided are given in Annexure II.

2.0 ROLE OF Tripura University (Institute)

- 2.1. To provide their contribution of Rs. 27.104 Lakhs for 3 years from date of sanction of the project as detailed in Annexure – II (if a jointly supported project).
- 2.2. To provide existing facilities as mentioned in the project document.
- 2.3. To be responsible for accomplishing objectives identified and activities listed.
- 2.4. To allow the Scientists authorized by DBT to work with the Research & Development team of the center in all stages of process development and production.
- 2.5. To recruit all scientific and non-scientific staff as sanctioned by DBT.
- 2.6. To prepare and submit all periodical reports and other documents that would be required by DBT.
- 2.7. To maintain a separate audit head of account for the grants received from DBT for the project.
- 2.8. To submit an annual audited statement of expenditure incurred under the project.
- 2.9. To ensure effective utilization of the grant given by DBT for the purpose for which it was granted and to ensure timely progress of project work.

Sham Ray Chaudhuri

(Sanit Debroy) 24.11.18
Registrar (I/C)
Tripura University



Electrical switching behaviour of a metalloporphyrin in Langmuir-Blodgett film

Bapi Dey^a, Sekhar Chakraborty^a, Santanu Chakraborty^b, Debajyoti Bhattacharjee^a, Inamuddin^{c,d}, Anish Khan^{c,d}, Syed Arshad Hussain^{a,*}

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^b Department of Physics, NIT Agartala, Jiraniya, 799046, West Tripura, Tripura, India

^c Chemistry Department, Faculty of Science, King Abdulaziz University, Jeddah, 21589, Saudi Arabia

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ARTICLE INFO

Keywords:

Organic electronics
Bipolar switching
Threshold switching
MnTPPS
LB films

ABSTRACT

Here we report the resistive switching behaviour of an water soluble anionic metalloporphyrin 5,10,15,20-Tetrakis(4-sulfonatophenyl)-21H,23H-porphine manganese(III) chloride (MnTPPS) assembled onto spin coated as well as in Langmuir-Blodgett (LB) film. To prepare LB film, water soluble MnTPPS molecules were incorporated into monolayers of two cationic matrix molecules Octadecyltrimethylammonium bromide (OTAB) and N-Cetyl-N,N,N, trimethyl ammonium bromide (CTAB) through electrostatic interaction. Successful incorporation of MnTPPS molecules into the matrix (OTAB/CTAB) monolayers has been confirmed by measuring π – A isotherm, π – t curve and BAM investigations at air-water interface. From I – V characteristic it was found that by adjusting the measurement protocols (compliance current, sweeping direction) all the devices fabricated by using spin coated as well as LB films exhibit outstanding bipolar switching and threshold switching behaviour at room temperature. Presence of electron acceptor groups (SO₃H) and π – electron clouds on the MnTPPS molecules mainly play the crucial role for such observed switching behaviour onto ultrathin films. This type of bipolar memory switching and threshold switching in a single device is technologically very important to use as an active component for the non-volatile information storage and future optoelectronics devices.

1. Introduction

Electronic and optoelectronic devices are the leading tools for the modern society [1–7]. There is a growing interest for the development of nanoscale devices with new functionality and/or greatly enhanced performance. In recent years organic electronics deals with carbon-based conductive organic materials and are extensively studied due to their interesting optical, electrical, photoelectrical conducting, semiconducting, memory, storage and magnetic properties [8–12]. There are numerous potential applications of organic materials in the development of electronic devices such as sensors, solar cells, field-effect transistors (FET), switching devices, optical data storage, organic light emitting diode (OLED) etc [13–19].

Of late molecular electronics has emerged as an important technology which deals with the manipulation of organic materials at the nanoscale level to realize devices that will store and/or process information [20–22]. Here single molecule or an assembly of molecule will be used for the fabrication of electronic components. It has been

observed that several organic molecules show rectification, switching, semiconducting and even metallic properties under certain conditions [23–26]. Therefore molecules that are probably suitable for the applications in molecular-electronic devices have recently been the subject of current interest.

On the other hand Langmuir – Blodgett (LB) technique is one of the few methods for preparing nanoscale organized molecular assemblies which are the pre-requisite for the realization of molecular electronic devices [27,28]. LB technique provides the opportunity to exercise molecular level control over the structure of organic thin layer of molecules [29–31].

Porphyrin derivatives have interesting characteristics such as rigid planar structure, high stability, intense absorption and small HOMO-LUMO energy gap. These characteristics make porphyrins a class of synthetic building blocks for functional nano materials suitable for molecular electronics [32]. Due to their interesting properties and extended π – conjugated structure, porphyrins have potential applications in nonlinear photonic devices [33–35] and for investigations of

* Corresponding author.

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Application No.: **Recurring**
Agri/2015/69

No. BT/PR16867/NER/95/327/2015
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER-BPMC)

Block 2, (6-8th Floors)
CGO Complex, Lodhi Road,
New Delhi- 110 003

Date: 13/11/2018

RELEASE ORDER

In continuation of this Department's sanction order of even number dated Jan 13, 2017 sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. **3194000.00** (Rupees Thirty One Lakhs Ninety Four Thousand Only) being the second year release for the project entitled "**Integrated approach to understand agarwood formation and value addition of Agarwood (Aqualaria malaccensis)**", being implemented by

1. Prof. Ashish Kumar Nandi, Jawaharlal Nehru University, Room No. 415, New Delhi - 110067
2. Dr. Bimal Debnath, Tripura University, Suryamaninagar, Agartala - 799022, Tripura
3. Dr. Madhumita Barooah, Assam Agricultural University, Jorhat - 785004, Assam
4. Dr. Phatik Tamuli, Darrang College, Tezpur - 784001, Assam
5. Dr. Sofia Banu Banu, Gauhati University, Gopinath Bordoloi Nagar, Guwahati Assam - 781014

The detailed break-up is as given below:

SNo	Institute Name	Recurring						Total Release Amount (Rs)
		Manpower	Consumable	Travel	Contingency	Others	Overhead	
1	Assam Agricultural University	255000.00	399000.00	24000.00	20000.00	0.00	33000.00	731000.00
Interest earned of rs. 17000 assuming 4 percent on rs. 411000 is re appropriated to overhead								
2	Darrang College	208000.00	136000.00	33000.00	6000.00	0.00	4000.00	387000.00
Interest earned of rs. 6000 assuming 4 percent on rs. 152000 is re appropriated to overhead balance under NR head is re appropriated to contingency								
3	Gauhati University	187000.00	900000.00	40000.00	25000.00	0.00	48000.00	1200000.00
Interest earned of Rs. 2000 is re appropriated to overhead								
4	Jawaharlal Nehru University	192000.00	250000.00	25000.00	20000.00	0.00	42000.00	529000.00
Interest earned of rs. 2000 is re appropriated to overhead								
5	Tripura University	116000.00	187000.00	26000.00	18000.00	0.00	0.00	347000.00

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Vaibala

325-326

A. J. S. S.

Administrative
App. No. MED/2017/107

No. BT/PR25380/NER/95/1168/2017
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER-BPMC)

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 28 / 09 /2018

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: "Development of polyherbal based functional biopolymer hydrogel for delivery of novel healing agents in excision and burn wound." for a period of 3 Year 0 Month at a total cost of Rs. 7542600 (Rupees Seventy Five Lakhs Fourty Two Thousand Six Hundred Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "Development of polyherbal based functional biopolymer hydrogel for delivery of novel healing agents in excision and burn wound."

2.2 Details of the Investigators:

Project Coordinator

Prof. samir kumar sil

Professor

Human physiology

Tripura University

suryamaninagar, Agartala, Tripura, 799022

Principal Investigators:

Prof. Samir kumar sil

Professor

Human physiology

Tripura University

suryamaninagar, Agartala, Tripura,
799022

Prof. Parimal Karmakar

Professor

Life Science and Biotechnology

Jadavpur University

188 Raja SC Mullick Road,

Kolkata:700 032, WB, India, West
Bengal, 700032

V. S. S.

S.No. 4CT



ज्ञान विज्ञान विमुक्तये

**UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110002**

FD Diary No. **3181**
Dated **27.06.2018**

No.F 6-1/2018 (IC)

July, 2018
09 JUL 2018

The Under Secretary (FD-III)
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi-110 002

Subject: Release of Grants-in-aid to **Tripura University, Tripura- 799 022** under Indo- Israel Joint Research Programme (4th Cycle).

Sir,

I am directed to convey the sanction of the University Grants Commission for payment of grant of **Rs. 92,00,000/- (Rupees Ninety Two Lakhs Only)** as **1st year grant** to the **Registrar, Tripura University, Tripura- 799 022** towards the Project titled **"What role of tropical thunderstorms play in driving the upper tropospheric water vapor feedback?"** under Indo- Israel Joint Research Programme (4th Cycle) for the financial year **2018-2019**.

S.No.	Heads	Head of Account	Allocated amount	Grant now being released	Total Grant
1	Personnel Cost	3(D)31	4500000	1500000	1500000
2	Research Cost		4000000	3500000	3500000
3	Cooperation & Exchanges		2300000	800000	800000
4	Miscellaneous		600000	200000	200000
5	Overhead		600000	200000	200000
6	Equipment/ Instruments		3000000	3000000	3000000
Total			1,50,00,000/-	92,00,000/-	92,00,000/-

- The **sanctioned** amount is debitale under the head of account **3(D)31** and is valid for payment during the financial year **2018-2019 (The unutilized amount of this grant can be carried forward for the next financial year)**.
- The amount of the Grant shall be drawn by the EO (DDO) UGC on the Grants-in-aid bill and shall be disbursed to and credited to the **Registrar, Tripura University, Tripura- 799 022** through Electronic mode as per the following details:

a	Details (Name & Address) of Account Holder	The Registrar, Tripura University, Tripura- 799 022
b	Account No	30371209938
c	Name & address of Bank branch	State Bank of India, Tripura University Campus Branch, Suryamaninagar, Tripura- 799 022
d	MICR Code	799002524
e	IFSC Code	SBIN0010495
f	Type of Account	Savings Accounts

- The Grant is Subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma submitted by the University/Institution.
- The University / Institution shall maintain proper accounts of the expenditure out of the Grants which shall be utilized only on the approved items of expenditure.
- The University / Institution may follow the General Financial Rules, 2017 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2017 and those don't have their own approved manuals on financial procedures may adopt the provisions of GFRs, 2017 and instructions/guideline there under from time to time.
- The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to UGC as early as possible after the close of Savings Accounts financial year.
- The assets acquired wholly for substantially out of University Grants Commission's Grant shall not be disposed or encumbered or utilised for the purposes other than those for which the grants was given without proper sanction of the UGC and should at any time the University ceased to function, such assets shall revert to the University Grants Commission.

ou **ISSUED**

**Research Collaboration of Dr. Swanirbhar Majumder,
Department of Information Technology, Tripura University
with Maibam Sanju Meitei, Assistant Professor, Rajiv Gandhi
University, Arunachal Pradesh.**

1. "A Mathematical Modelling And 3D Simulation Of ZnO Piezoelectric Base Cantilever For Pressure Sensing", Page 37-41 of IJSTR(International Journal of Scientific & Technology Research) Volume 9 - Issue 9, September 2020 Edition - ISSN 2277-8616, (Maibam Sanju Meitei, Aheibam Dinamani Singh, Swanirbhar Majumder, Ome Moyong)
2. "A Mathematical Modelling and 3D Analysis of PZT-5H Piezoelectric Base Bridge Pressure Sensor" , International Journal of Mechanical Engineering and Technology (IJMET), Volume 10, Issue 11, November 2019, pp. 407-415, Article ID: IJMET_10_11_034, Available online at <http://www.iaeme.com/ijmet/issues.asp?JType=IJMET&VType=10&IType=11>, ISSN Print: 0976-6340 and ISSN Online: 0976-635, (Maibam Sanju Meitei, Aheibam Dinamani Singh, Swanirbhar Majumder)
3. "An Engineering Approach for Modeling and Design of a Diaphragm Based Comb Drive Capacitive Pressure Sensor", Proceedings of 5th International Conference on Information & Management Skills (ICCM) 2019, pg 70-73, ISSN: 1556-5068, SSRN: <https://ssrn.com/abstract=3516732> (Maibam Sanju Meitei, Aheibam Dinamani Singh, Swanirbhar Majumder)
4. "A Novel Design and Modeling of Beam Bridge structure Piezoelectric Pressure Sensor base on ZnO", Proceedings of 5th International Conference on Information & Management Skills (ICCM) 2019, pg 106-110, ISSN: 1556-5068, SSRN: <https://ssrn.com/abstract=3517369> (Maibam Sanju Meitei, Aheibam Dinamani Singh, Swanirbhar Majumder)

**Research Collaboration of Dr. Swanirbhar Majumder,
Department of Information Technology, Tripura University
with Prof. Thermicon Tuithung, Professor, NIT Nagaland.**

1. "A New Steganography Method Using Integer Wavelet Transform and Least Significant Bit Substitution", Section C: Computational Intelligence, Machine Learning and Data Analytics, The Computer Journal, published by Oxford University Press, Impact Factor 0.792, 5-year Impact Factor:0.860, Copyright © 2019 DOI: :10.1093/comjnl/bxz014, British Computer Society, ISSN 0010-4620. (M. Kalita, S. Majumder, T. Tuithung)
2. "An Adaptive Color Image Steganography Method using Adjacent Pixel Value Differencing and LSB Substitution Technique", Cryptologia Journal, published by Taylor and Francis, Impact Factor 0.326, ISSN: 0161-1194 (Print) 1558-1586 (Online). DOI: 10.1080/01611194.2019.1579122 (M. Kalita, S. Majumder, T. Tuithung)

सीएसआईआर-केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
बरवा रोड, धनबाद - 826 015, झारखण्ड, भारत
एक आई एस ओ 9001 प्रमाणित संस्थान



CSIR-Central Institute of Mining and Fuel Research

(Council of Scientific and Industrial Research)
Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Mr. Harjeet Nath
Assistant Professor
Department of Chemical & Polymer Engineering
Tripura University (A Central University), Agartala, India

To whom it may concern

I am very happy to mention that we have active collaboration with your research group at Department of Chemical & Polymer Engineering, Tripura University and my research group at Gasification and Catalysis Laboratory, CSIR CIMFR (Digwadih Campus) since 2018. As a result of collaborative research we have several peer reviewed joint publications in our credit. Also researchers from your group have made successful exchange visits as part of internship program. I hope in near future our collaborative research will results some more fruitful outcome.

Thank you very much.

Sincerely,

Vishal Chauhan
Scientist
Gasification and Catalysis Research Group
CSIR-Central Institute of Mining and Fuel Research
(Ministry of Science & Technology, Govt. of India)
Dhanbad - 828108, Jharkhand, India
Phone: 09411850253
Email: vishal.cimfr@gmail.com
vishalchauhan@cimfr.nic.in
Webpage: www.cimfr.nic.in

12/15/17
No. BT/PR25260/NER/95/1102/2017
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER-BPMC)

Administrative
Appl. No.: Agri/2017/91

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi - 110 003
Dated: 24/01/2019

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: "**Understanding mechanistic detail of growth promotion and stress tolerance in legume crop by fungal endophyte through secretome and metabolomics study**" for a period of 3 Year 0 Month at a total cost of Rs. **7166988** (Rupees Seventy One Lakhs Sixty Six Thousand Nine Hundred and Eighty Eight Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "Understanding mechanistic detail of growth promotion and stress tolerance in legume crop by fungal endophyte through secretome and metabolomics study"

2.2 Details of the Investigators:

Project Coordinator

Prof. Ajay Krishna Saha
Professor
Botany
Tripura University
Suryamaninagar, Agartala, Tripura, 799022

Principal Investigators:

Prof. Ajay Krishna Saha
Professor
Botany
Tripura University
Suryamaninagar, Agartala, Tripura,
799022

Prof. Subhra Chakraborty
Scientist-VII (Professor)
Molecular Biology
National Institute of Plant Genome
Research, Jawaharlal Nehru
University Campus, Aruna Asaf Ali
Marg, New Delhi, 110067


19. **Endorsement Form**

This is to certify that Mr. Harjeet Nath is having a regular position in our organization/institution/university. This organization/institution/ university agrees to undertake the financial and other management responsibilities for the part of the project work which will be conducted in our organization.

The details of the Finance Officer of the Institute who is authorized to receive the grant on behalf of the Institute including Bank account details, IFSC code are given below:

Date:

Place:


Name and signature 3.1.19

of the Head of the organization/institution/university

(Sanit Debroy)
Registrar (I/C)
Tripura University
Suryamaninagar-799022

MANDATE FORM

ELECTRONIC CLEARING SERVICE (CREDIT CLEARING) REAL TIME GROSS SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS

A. DETAILS OF ACCOUNT HOLDER:-

NAME OF ACCOUNT HOLDER	Tripura University Earmarked Special Fund
COMPLETE CONTACT ADDRESS	REGISTRAR, TRIPURA UNIVERSITY, SURYAMANINAGAR, TRIPURA(W)-799022
TELEPHONE NUMBER/FAX/EMAIL	Ph. (0381) 237 9003/4803, FAX: (0381) 237 4803, EMAIL: registrar@tripurauniv.in

B. BANK ACCOUNT DETAILS:-


BANK NAME	STATE BANK OF INDIA
BRANCH NAME WITH COMPLETE ADDRESS, TELEPHONE NUMBER AND EMAIL	TRIPURA UNIVERSITY CAMPUS BR., SURYAMANINAGAR, TRIPURA(W), PIN - 799022. EMAIL: sbi.10495@sbi.co.in
WHETHER THE BRANCH IS COMPUTERISED?	YES
WHETHER THE BRANCH IS RTGS ENABLED? IF YES THEN WHAT IS BRANCH IFSC CODE	YES SBIN0010495
WHETHER LINKED WITH PFMS	YES
IS THE BRANCH ALSO NEFT ENABLED?	YES
TYPE OF BANK ACCOUNT (SB/CURRENT/CASH CREDIT)	SAVINGS
COMPLETE BANK ACCOUNT NUMBER (LATEST)	30371209938
MICR CODE OF BANK	799002524
UNIQUE CODE OF PFMS	RJBP00000033
PAN	AACAT1043M
TAN	SHLT00649F
IMPORT EXPORT CODE	0100000053

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effective at all for reasons of incomplete or incorrect information. I would not hold the user institution responsible. I have read the option invitation letter and agree to discharge responsibility expected to me as a participant under the scheme.

The above institution, account no, and bank details are registered/mapped under Public Finance Management System (PFMS).

Date:

Certified that the particulars furnished above are correct as per our records.


(.....)
Signature of Assistant Registrar & DDO
Assistant Registrar & DDO
Tripura University,
Suryamaninagar-799022

(Bank Stamp)


(.....)
Signature of Assistant Registrar & DDO
Assistant Registrar & DDO



भारतीय प्रौद्योगिकी संस्थान गुवाहाटी,
गुवाहाटी 781 039

Indian Institute of Technology
Guwahati, Guwahati 781 039, Assam, India.

Phone Nos.: +91-361- 258 2082

Fax No. : +91-361- 258 2089
e-mail : dornd@iitg.ernet.in

Office of the Research and
Development Section

Prof Gopal Das

Dean Research and Development and
Professor of Chemistry

File Ref:NECBH/2018-19

Date :18.01.2019

ENDORSEMENT

This is to certify that **Dr. Sudip Mitra** is having a regular position in our organization/institution/university. This organization/institution/ university agrees to undertake the financial and other management responsibilities for the part of the project work which will be conducted in our organization.

The details of the Finance Officer of the Institute who is authorized to receive the grant on behalf of the Institute including Bank account details, IFSC code are given below:

Institution account name: IITG R&D Account
Account No: 30314002512
IFSC Code: SBIN0014262
Bank: State Bank of India
Branch Name: IIT Guwahati Branch
MICR No: 781002053
Account Type: Saving Account

Date: 18th Jan 2019
Place: IIT Guwahati

Name and signature
of Head of the organization/Institution/University

RDA
18/1/19

संकायाध्यक्ष, अनुसंधान एवं विकास
Dean, Research and Development
भारतीय प्रौद्योगिकी संस्थान गुवाहाटी
Indian Institute of Technology Guwahati
गुवाहाटी-781039
Guwahati-781039

Design of a fractal inspired antipodal vivaldi antenna with enhanced radiation characteristics for wideband applications

ISSN 1751-8725

Received on 27th May 2018

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E-First on 18th March 2019

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www.ietdl.org

Anirban Karmakar¹, Anindita Bhattacharjee¹, Anuradha Saha² ✉, Abhirup Bhawal¹

¹Electronics & Communication Engineering Department, Tripura University (A Central University), Tripura, India

²Netaji Subhash Engineering College, Kolkata, India

✉ E-mail: anuradha.nsec@gmail.com

Abstract: A novel fractal inspired antipodal Vivaldi antenna is proposed for wideband applications. A step-by-step procedure has been employed to design and optimise the performance of the proposed antenna. First, a conventional antipodal Vivaldi antenna (CAVA) is designed as a reference antenna and then a Koch fractal-shaped parasitic lens is introduced in the CAVA. Finally, a fractal-shaped dielectric lens has been added as an extension of the antenna substrate. The presence of parasitic fractal lens in the flare aperture and fractal dielectric lens enhances the antenna bandwidth and also improves field coupling between the antenna arms and produces stronger radiation in the end fire direction which in turn increases the gain and directivity of the antenna. The optimised antenna is fabricated and tested showing $|S_{11}|$ below -10 dB from 4.2–42 GHz band. The dimension of the proposed antenna is $186 \times 66 \times 1.524$ mm³. Results show that $|S_{11}|$ characteristics and other parameters are in good agreement with the simulation counterpart.

1 Introduction

Nowadays, the demand of broadcast and wireless communication technology is increasing day-by-day. Therefore, the demand for designing antennas with wide impedance bandwidth and higher gain has been increasing. Directional antennas are used to improve the capacity of wireless systems and to reduce the co channel interference and multipath effects. On the other side, wideband antennas are used in different fields including satellite communications, radars, and microwave imaging systems, remote-sensing systems, GPR detection, and medical field [1]. In a broadband directional system, a wideband antenna is used in place of multiple antennas because wideband antenna can have less complexity, lower power consumption, and a more compact footprint. Double-ridge guide horn antenna has been used for such applications but its relatively large and heavy structure makes it inappropriate for various fields [2]. Nowadays, Vivaldi antenna [3] is one of the prominent candidates used for this purpose due to its attractive features like wide bandwidth, planar structure, directive radiation pattern, inexpensive fabrication, and easy integration.

Depending on the frequency of operation, Vivaldi antenna operates as two antennas [4]. At low frequency, it operates as a resonant antenna and at high frequency, as a non-resonant travelling wave radiator. At higher frequency, the radiation is produced from the travelling wave currents along the flare edges. The increase in aperture flare separates the wave energy and generates radiated space waves. In order to direct the radiated fields in the end fire direction, the phase difference between the waves travelling on both arms needs to be ~ 180 degree as shown in Fig. 1. This condition influenced the expansion of the antipodal structure, which yields a wideband feed transition. Due to wide operating bandwidth, the Vivaldi antenna is often preferred for wide band applications but at higher frequencies, the unwanted radiation produced from the currents travelling along the flare ending sections of the antenna reduce the gain and distort the pattern but it can be suppressed by corrugating the ending sections [5] and avoiding the sharp edges, which produce diffracting wave. Another reason for the reduction in performance at high frequency is the sensitivity to the substrate thickness. Actually undesired modes are excited due to increase in thickness. These modes alternate the phases of the waves travelling along the flare section, create the radiation pattern distorted, and cause higher cross-

polarisation levels. To avoid these problems, it is preferred to use thin, low dielectric constant substrate materials. Vivaldi antenna has long electrical flare length, which is necessary for the broadband operation. This long electrical length limits its high-frequency performance due to phase reversals along its length. It can be seen from Fig. 1 that the phase reversal creates off-axis radiation along with end fire radiation from the aperture end of the antenna which is out of phase with the fields from the throat of the antenna. The most effective approach to overcome this off axis radiation problem is to reduce the size of the flare opening and the flare rate. This approach enhances the coupling between the arms as well as weakens the coupling that occurs between different sections of the same arm due to the phase reversal. In this design, parasitic lens is used to overcome this off-axis radiation problem.

In recent years, the demand of Vivaldi antennas is increasing because challenges still lie for size reduction, improvement on radiation characteristics along with extension of impedance bandwidth. In order to achieve this, several researchers have presented different techniques [1, 4, 6–10]. For instance, in [1], a new method known as Herein is used to enhance the directivity and bandwidth of the antenna. In this method, an elliptical-shaped parasitic lens is introduced in the flare aperture section of the antenna to generate stronger end fire radiation by improving the E-field coupling between arms. In [4], the substrate between the arms of the antenna was designed as a triangular structure to increase the high-frequency performance of the antenna. This comb-shaped slits are used to provide gain at higher frequencies. In [11], a high permittivity material lens and, in [12], meta-material were introduced in the aperture of the antenna to direct the energy in end fire direction. In [6], half elliptical-shaped dielectric lens as an extension of the substrate is added to achieve better front-to-back ratio and gain at higher frequency. In [7], to enhance gain and front-to-back ratio of the antenna at high-frequency comb-shaped slits etched on the edge of the radiators. In [8], corrugated structure applied on the Vivaldi antenna to achieve wide bandwidth, higher gain, and narrow-shaped beam over the entire frequency range. In [9], tapered slot edge with resonant cavity structure is used in the antenna design to extend the bandwidth of the antenna and improve the gain of the antenna. The dielectric director of hemisphere shape [10] is used to improve the higher frequency gain. These antennas have lower gain at high frequencies [1, 4, 6–9] and the bandwidth



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e-mail : dornd@iitg.ernet.in

Office of Dean Research and
Development Section

Prof Gopal Das

Dean Research and Development & the

Coordinator, NECBH Programme

IIT Guwahati

Assam 781039

Ref: NECBH/2019-20/177

Date : 29-04-2019

Sanction Letter

PI Name: Swanirbhar Majumder

Category: Eureka

Your Project ID: 177

Project Title: Multivariate intrinsic mode functions for electroencephalogram signals using single channel

Duration: 2.5 Years

Total Sanction amount: Rs. 1592462.00

Account Head	For Principal Investigator	For CO PI IITG	For CO PI Other Institutes
Non-Recurring	200000.00	Nil	Nil
Man Power	687500.00	Nil	Nil
Consumables	100000.00	100000.00	Nil
Travel	50000.00	Nil	Nil
Contingency	85000.00	50000.00	Nil
Total	1122500.00	150000.00	Nil
Over Head	112250.00	Nil	Nil
Instrument Maintenance For NECBH	207712.00		
Grand Total	1592462.00		

Sincerely Yours,

Gopal Das

Terms and conditions

- The principal investigator (PI) has to acknowledge project number BT/COE/34/SP28408/2018 of Department of Biotechnology (DBT), Govt. of India for the financial support.
- Funds will be released in subsequent installation subject to satisfactory performance of the project and availability of fund.
- The Institute/PI would furnish a Utilization Certificate and an audited statement of expenditure duly signed by the PI, the Head of the Institute and the Head of the Finance wing, pertaining to the grant at the end of each financial year as well as a consolidated statement of expenditure at the end of the completion of the project or whenever it is required.
- The PI is not permitted to seek or utilize funds from any other organization (Government, Semi Government, Autonomous or Private) for this research project.
- Any unspent part of amount would be surrendered to the **Research and Development Section, IITG** and carry forward of funds of the next financial year for utilization for the same project may be considered only with the specific approval of the **Research and Development Section, IITG and Department of Biotechnology (DBT)**.
- IIT Guwahati or DBT reserves the right to terminate the grant at any stage and also to recover the amounts already paid if it is convinced that the grant has not been properly utilized or the work on the project has been suspended for any unduly long period or appropriate progress is not being made.
- The project will become operative with effect from April 29, 2019.
- A copy of progress report has to be sent in the month of January till the completion of project or whenever it is required.
- Travel should be used mainly for sample collection, discussion among the PIs not for other purpose. No international Travel will be undertaken from the sanctioned project grant.
- If the Investigator to whom a grant for a project has been sanctioned leaves the institution where the project is being implemented, PI shall submit five copies of complete and detailed report of the work done by him on the project and the money spent till the date of his/her release and shall also arrange to refund the unspent balance, if any to IIT Guwahati.

A Compassionate Self Is a True Self? Self-Compassion Promotes Subjective Authenticity

Personality and Social Psychology Bulletin
2019, Vol. 45(9) 1323–1337
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Jia Wei Zhang¹, Serena Chen², Teodora K. Tomova Shakur³, Begüm Bilgin⁴, Wen Jia Chai⁵, Tamilselvan Ramis⁵, Hadi Shaban-Azad⁶, Pooya Razavi⁷, Thingujam Nutankumar⁸, and Arpine Manukyan²

Abstract

Theory and research converge to suggest that authenticity predicts positive psychological adjustment. Given these benefits of authenticity, there is a surprising dearth of research on the factors that foster authenticity. Five studies help fill this gap by testing whether self-compassion promotes subjective authenticity. Study 1 found a positive association between trait self-compassion and authenticity. Study 2 demonstrated that on days when people felt more self-compassionate, they also felt more authentic. Study 3 discovered that people experimentally induced to be self-compassionate reported greater state authenticity relative to control participants. Studies 4 and 5 recruited samples from multiple cultures and used a cross-sectional and a longitudinal design, respectively, and found that self-compassion predicts greater authenticity through reduced fear of negative evaluation (Study 4) and heightened optimism (Study 5). Across studies, self-compassion's effects on authenticity could not be accounted for by self-esteem. Overall, the results suggest that self-compassion can help cultivate subjective authenticity.

Keywords

self-compassion, authenticity, self-esteem, fear of negative evaluation, optimism

Received 27 January 2018; revised manuscript accepted 1 November 2018

To be yourself in a world that is constantly trying to make you something else is the greatest accomplishment.

—Ralph Waldo Emerson

Personal and cultural admonishments to “be yourself” suggest the importance of authenticity. Authenticity underlies utterances as diverse as “I can be myself around her”; “I want a job that allows me to be who I am”; “Don’t change who you are, just be yourself”; and “I’ve got to do what I feel is right.” In short, many people value and strive for authenticity. This is wise, as extensive research indicates that authenticity has many positive well-being outcomes. Relatively little empirical attention, however, has been given to what cultivates authenticity in the first place. In the present research, we proposed and tested the novel hypothesis that self-compassion promotes authenticity.

Subjective Authenticity and Positive Psychological Adjustment

We focus on authenticity, as defined in terms of subjective feelings of authenticity—that is, “the sense or feeling that

one is currently in alignment with one’s true or genuine self; that one is being their real self” (Sedikides, Slabu, Lenton, & Thomaes, 2017, p. 521). Accordingly, we operationalized authenticity in line with what researchers refer to as state authenticity (Schmader & Sedikides, 2018)—how authentic or “true to the self” people currently feel. Daily diary studies suggest that subjective authenticity operationalized in this manner varies considerably within person and more so than between people (Lenton, Slabu, & Sedikides, 2016). Other studies have shown that subjective authenticity defined in a similar manner shapes various psychological outcomes (e.g.,

¹University of Memphis, TN, USA

²University of California, Berkeley, USA

³New York University, New York City, USA

⁴Koç Üniversitesi, Istanbul, Turkey

⁵HELP University, Shah Alam, Malaysia

⁶University of Tehran, Islamic Republic of Iran

⁷University of Oregon, Eugene, USA

⁸Tripura University, Agartala, India

Corresponding Author:

Jia Wei Zhang, Assistant Professor, Department of Psychology, University of Memphis, 400 Innovation Drive, Memphis, TN 38152, USA.

Email: jzhang11@memphis.edu

A Compassionate Self Is a True Self? Self-Compassion Promotes Subjective Authenticity

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Jia Wei Zhang¹, Serena Chen², Teodora K. Tomova Shakur³, Begüm Bilgin⁴, Wen Jia Chai⁵, Tamilselvan Ramis⁵, Hadi Shaban-Azad⁶, Pooya Razavi⁷, Thingujam Nutankumar⁸, and Arpine Manukyan²

Abstract

Theory and research converge to suggest that authenticity predicts positive psychological adjustment. Given these benefits of authenticity, there is a surprising dearth of research on the factors that foster authenticity. Five studies help fill this gap by testing whether self-compassion promotes subjective authenticity. Study 1 found a positive association between trait self-compassion and authenticity. Study 2 demonstrated that on days when people felt more self-compassionate, they also felt more authentic. Study 3 discovered that people experimentally induced to be self-compassionate reported greater state authenticity relative to control participants. Studies 4 and 5 recruited samples from multiple cultures and used a cross-sectional and a longitudinal design, respectively, and found that self-compassion predicts greater authenticity through reduced fear of negative evaluation (Study 4) and heightened optimism (Study 5). Across studies, self-compassion's effects on authenticity could not be accounted for by self-esteem. Overall, the results suggest that self-compassion can help cultivate subjective authenticity.

Keywords

self-compassion, authenticity, self-esteem, fear of negative evaluation, optimism

Received 27 January 2018; revised manuscript accepted 1 November 2018

To be yourself in a world that is constantly trying to make you something else is the greatest accomplishment.

—Ralph Waldo Emerson

Personal and cultural admonishments to “be yourself” suggest the importance of authenticity. Authenticity underlies utterances as diverse as “I can be myself around her”; “I want a job that allows me to be who I am”; “Don’t change who you are, just be yourself”; and “I’ve got to do what I feel is right.” In short, many people value and strive for authenticity. This is wise, as extensive research indicates that authenticity has many positive well-being outcomes. Relatively little empirical attention, however, has been given to what cultivates authenticity in the first place. In the present research, we proposed and tested the novel hypothesis that self-compassion promotes authenticity.

Subjective Authenticity and Positive Psychological Adjustment

We focus on authenticity, as defined in terms of subjective feelings of authenticity—that is, “the sense or feeling that

one is currently in alignment with one’s true or genuine self; that one is being their real self” (Sedikides, Slabu, Lenton, & Thomaes, 2017, p. 521). Accordingly, we operationalized authenticity in line with what researchers refer to as state authenticity (Schmader & Sedikides, 2018)—how authentic or “true to the self” people currently feel. Daily diary studies suggest that subjective authenticity operationalized in this manner varies considerably within person and more so than between people (Lenton, Slabu, & Sedikides, 2016). Other studies have shown that subjective authenticity defined in a similar manner shapes various psychological outcomes (e.g.,

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A Compassionate Self Is a True Self? Self-Compassion Promotes Subjective Authenticity

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No. BT/PR25369/NER/95/1162/2017
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In continuation of this Department's sanction order of even number dated 27/9/19, sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. **1471000.00** (Rupees Fourteen Lakhs Seventy One Thousand Only) being the first year release for the project entitled "**Synthesis And Characterization Of Different Chrysin Derivatives Followed By Screening Of Anti-Obesogenic Activity, Anti-Diabetogenic Activity In Vitro: Assessment Of In Vivo Activity With The Lead Compounds**", being implemented by

1. Dr. Mrs Krishna Das Saha, Indian Institute Of Chemical Biology, 4, Raja S. C. Mallick Road, Kolkata - 700032, West Bengal
2. Dr. Utpal Chandra De, Tripura University, Suryamaninagar, Agartala - 799022, Tripura

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		Equipment	Other	
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2	Tripura University	1000000.00	0.00	1000000.00

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1. Rs.471000.00/- (Rupees Four Lakhs Seventy One Thousand Only) to The Director, Indian Institute Of Chemical Biology, 4, RAJA S.C. Mullick Road, Jadavpur, Kolkata - 700032, West Bengal

Bank Name : State Bank of India
Branch Name : Jadavpur University Branch
A/c No. : 30272881915
IFSC Code : SBIN0000093
MICR Code : 700002048

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Bank Name : State Bank Of India
Branch Name : Tripura University Campus
A/c No. : 30371209938
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MICR Code : 799002524

Vaishali

अं. वैशाली पंजाबी / Dr. VAISHALI PANJABI
वैज्ञानिक 'ई' / Scientist 'E'
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology
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Dated: 26/09/19.

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: "**Study of induction and mechanisms of Autophagy in EAC cells upon treatment with Theaflavins**" for a period of 3 Year 0 Month at a total cost of Rs. **7097120** (Rupees Seventy Lakhs Ninety Seven Thousand One Hundred and Twenty Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "Study of induction and mechanisms of Autophagy in EAC cells upon treatment with Theaflavins"

2.2 Details of the Investigations:

Project Coordinator

Dr. Debasish Maiti

Associate Professor,
Dept. of Human Physiology, Tripura University
Suryamaninagar,, Agartala, Tripura, 799022

Principal Investigators:

Dr. Debasish Maiti

Associate Professor
Dept. of Human Physiology, Tripura University
Suryamaninagar,, Agartala, Tripura, 799022

Dr. Samiran Saha

Assistant Professor
Biotechnology
Visva Bharati University
Department of Biotechnology,
Siksha Bhavana,
Visva-Bharati, Santiniketan, West Bengal, 731235

CO-PI:

Prof. Durgadas Ghosh

Professor
Dept. of Zoology, Tripura University
Suryamaninagar,, Agartala, Tripura, 799022

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विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.
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CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 28 / 01 / 2019

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: "**INVESTIGATION OF HYDROPHOBICALLY MODIFIED POLYSACCHARIDES FOR NANODELIVERY OF ANTICANCER DRUGS IN THE TREATMENT OF MULTIDRUG RESISTANCE COLON CANCER**" for a period of 3 Year 0 Month at a total cost of Rs. **6596400** (Rupees Sixty Five Lakhs Ninety Six Thousand Four Hundred Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "INVESTIGATION OF HYDROPHOBICALLY MODIFIED POLYSACCHARIDES FOR NANODELIVERY OF ANTICANCER DRUGS IN THE TREATMENT OF MULTIDRUG RESISTANCE COLON CANCER"

2.2 Details of the Investigations:

Project Coordinator

Dr. Pratap Chandra Acharya

Assistant Professor

Department of Pharmacy

Tripura University

Department of Pharmacy, Block-A, Academic building-XI, Tripura

University (A Central University), Suryamaninagar, Agartala, Tripura,

799022

Principal Investigators:

Vaisale

Dr. Pratap Chandra Acharya

Assistant Professor
Department of Pharmacy
Tripura University
Department of Pharmacy, Block-A,
Academic building-XI, Tripura
University (A Central University),
Suryamaninagar, Agartala, Tripura,
799022

Dr. Clara Fernandes

Assistant Professor
SPP School of Pharmacy and
Technology Management
Narsee Monjee Institute of
Management Studies, Mumbai
SPP SPTM, SVKM'S NMIMS, V L
Mehta Road, Vile Parle (W) Mumbai,
Mumbai, Maharashtra, 400056

2.3 Objectives:**Overall Objectives:**

1. Synthesis, purification and structural characterization of fatty acid based glycolipid derivatives
2. Physicochemical characterization of the glycolipids for its stability and usefulness as a nanocarrier
3. Formulation of the glycolipids in to their nanocarriers
4. Fabrication of developed glycolipid nanocarriers in combination with anticancer drug 5-Fluorouracil
5. Investigation of the glycolipid and the drug loaded nanocarrier to overcome the multidrug resistance in colon cancer and its biological effect on colon cancer cells
6. Investigation of the pharmacokinetic and bio-distribution profile of 5-Fluorouracil from the nanoformulation

Institute wise Objectives:**Narsee Monjee Institute of Management Studies, Mumbai**

1. Fabrication of developed glycolipid nanocarriers in combination with anticancer drug 5-Fluorouracil
2. Characterization of nanocarriers and mechanism of overcoming the multidrug resistance in colon cancer

Tripura University

1. Synthesis, purification and structural characterization of fatty acid based glycolipid derivatives
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Different anisotropic silver nanocrystals show different antibacterial activities – an effect of different prominent crystallographic orientations in different shapes

Sumit Sarkar¹, Biraj Sarkar², Sukhendu Mandal² and Ratan Das^{1,*}

¹Nano-Physics and Nanotechnology Research Laboratory, Department of Physics, Tripura University, Suryamaninagar 799 022, India

²Department of Microbiology, University of Calcutta, Kolkata 700 019, India

The antibacterial activity of silver (Ag) nanoparticles is well established and various researchers have provided different explanations for the same. We have tested the activity of similar-sized anisotropic Ag nanocrystals. Silver nanocubes and nanohexagons were prepared and their antibacterial activity was tested against a few bacteria such as *Bacillus cereus*, *Escherichia coli*, *Salmonella typhi*, *Staphylococcus epidermidis*, *Klebsiella pneumonia*, *Vibrio parahaemolyticus* and *Pseudomonas aeruginosa*. It was found that the two shapes were active against all these bacteria. However, the plot of cell density of different bacterial pathogens against the concentration of silver nanocrystals was found to be different for these two shapes. Moreover, half maximal inhibitory concentration value and minimum bactericidal concentration value were also different for the two shapes. XRD analysis showed that both the nanocrystals were crystalline in nature, but their crystallographic orientation was different. So, it can be inferred from this study that some crystallographic planes are probably more active towards reaction with different bacterial compositions and hence, responsible for stronger antibacterial activity.

Keywords: Antibacterial activity, anisotropic silver nanocrystals, crystallographic planes, half maximal inhibitory concentration, minimum bacterial concentration.

NOWADAYS, nanomaterials have become important in the fast-developing field of nanomedicine. Therefore, knowledge of the properties of nanoparticles and their effect on different microbes is essential for different clinical application purposes. Due to their unique physico-chemical properties, silver nanoparticles (AgNPs) have recently gained considerable attention among researchers¹⁻³. AgNPs show high surface reactivity with greater versatility for technological applications, especially in the field of nano-biotechnology. Nonspherical nanoparticles such as hexagons, cubes, triangles, prisms and several types of

silver nanocrystals exhibit many important properties, which makes them useful in sensing and imaging, biomedical labelling, photonics and plasmonics among other applications, including medical purposes⁴⁻⁸.

Antibiotic resistance is a major problem nowadays in medical science and hence, has received considerable attention. Nanotechnology offers several nanomaterials which can be used as nanomedicine; these nanomaterials show better results compared to their respective bulk counterpart. In healthcare, AgNPs are being widely used in nanomedicine, with an annual production of more than 500 tonnes worldwide⁹⁻¹³.

Many researchers have reported that silver nanocrystals show better antimicrobial activity against multidrug resistant pathogenic microorganisms. Hence, these have been used in different medical devices^{2-3,14}, and also in different consumer products such as filters, food containers and textiles¹⁵⁻¹⁷. It is also reported that these nanocrystals show little cytotoxicity¹⁸⁻²⁰, but mechanisms of this toxicity need further studies.

Recently, AgNPs have been tested against bacteria of Gram-positive as well as Gram-negative type by various researchers and found to be non-toxic at low concentration levels. AgNPs also show inhibition of bacterial growth at very low concentration compared to that of antibiotics, with no report of side effects as of now²¹⁻²⁴.

Interestingly, like size effect on many unique properties of silver nanocrystals, its antimicrobial activity has also been reported to be dependent on size²⁵⁻²⁸. Nevertheless, research on shape-dependent antibacterial activity is on-going.

With the aim to study of shape effect on antibacterial activity, we prepared silver nanohexagons and silver nanocubes of almost the same size, which were tested for their antibacterial activity against seven different types of bacteria. The study showed that antibacterial activity of silver nanocrystals was shape-dependent. Many researchers have reported that anisotropic shapes play a major role in biocidal activity. Pal *et al.*²⁹ reported that silver nanocrystals of truncated triangular shape showed much better antibacterial efficiency than spherical and

*For correspondence. (e-mail: dasratanphy@gmail.com)

Different anisotropic silver nanocrystals show different antibacterial activities – an effect of different prominent crystallographic orientations in different shapes

Sumit Sarkar¹, Biraj Sarkar², Sukhendu Mandal² and Ratan Das^{1,*}

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With the aim to study of shape effect on antibacterial activity, we prepared silver nanohexagons and silver nanocubes of almost the same size, which were tested for their antibacterial activity against seven different types of bacteria. The study showed that antibacterial activity of silver nanocrystals was shape-dependent. Many researchers have reported that anisotropic shapes play a major role in biocidal activity. Pal *et al.*²⁹ reported that silver nanocrystals of truncated triangular shape showed much better antibacterial efficiency than spherical and

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RESEARCH PAPER

Enhancement of antibacterial activity of synthesized ligand-free CdS nanocrystals due to silver doping

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Manabendra D. Choudhury³ | Ratan Das¹  | Siddhartha S. Nath⁴

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Email: dasratanphy@gmail.com

Abstract

Recently, different nanocrystals have been reported to be the alternative, optimistic, and novel antimicrobial agent against the many antibiotic-resistant bacteria. Here, ligand-free CdS and Ag-doped CdS (Ag/CdS) nanocrystals have been synthesized by chemical methods for the study of the antimicrobial activity on *Escherichia coli* and *Staphylococcus aureus* by Kirby–Bauer diffusion method to see the effect against Gram-positive and Gram-negative bacteria. These prepared nanocrystals have been characterized by transmission electron microscopy (TEM), scanning electron microscopy (SEM), and X-ray diffraction (XRD). TEM and SEM images confirm the spherical morphology of both the sample and the respective XRD patterns indicate polycrystalline nature having a cubic zinc blende structure. Antibacterial activities have been tested with CdS and Ag/CdS, considering concentrations ranging from 10 to 200 µg/ml. After 24 h of incubation, the zone of inhibition (ZOI) is measured for each concentration, which shows that both the nanocrystals are ineffective against *E. coli* but much effective against *S. aureus* at this low concentration range. Furthermore, Ag/CdS nanocrystals have been found to show much more ZOI than CdS. Differences in the antibacterial activity can be due to the presence of different cell wall in *E. coli* and *S. aureus*.

KEYWORDS

Ag/CdS nanocrystals, antimicrobial activity, ligand free, TEM, zone of inhibition

1 | INTRODUCTION

Group II–VI semiconductor nanocrystals recently have attracted considerable attention owing to their unique size-dependent optical and electrical properties resulting from their quantum confinement effect. Their properties can be tuned finely by doping with different suitable material, for important technological purposes including antibacterial activity [1–3]. Nowadays researchers started

using different nanomaterials as an antibacterial agent because microorganisms show multiple drug resistance, which has become a critical issue in the field of medical science [4–6], and hence, considerable attention has been given to the utilization of nanomaterials as an antibacterial agent. Because of their high surface to volume ratio and their unique chemical and physical properties, different nanocrystals are coming up as a very good antibacterial agent [7]. These antimicrobial properties of

Abbreviation: Ag/CdS, Ag-doped CdS.

RESEARCH PAPER

Enhancement of antibacterial activity of synthesized ligand-free CdS nanocrystals due to silver doping

Pijush C. Dey¹ | Birson Ingti² | Amitabha Bhattacharjee² |
Manabendra D. Choudhury³ | Ratan Das¹  | Siddhartha S. Nath⁴

¹Nano-Physics & Nanotechnology Research Lab, Department of Physics, Tripura University, Agartala, Tripura, India

²Department of Microbiology, Assam University, Silchar, Assam, India

³Department of Life Science and Bioinformatics, Assam University, Silchar, Assam, India

⁴Central Instrumental Lab (CIL), Assam University, Silchar, Assam, India

Correspondence

Ratan Das, Department of Physics, Tripura University (A Central University), Suryamaninagar, Agartala, Tripura 799022, India.
Email: dasratanphy@gmail.com

Abstract

Recently, different nanocrystals have been reported to be the alternative, optimistic, and novel antimicrobial agent against the many antibiotic-resistant bacteria. Here, ligand-free CdS and Ag-doped CdS (Ag/CdS) nanocrystals have been synthesized by chemical methods for the study of the antimicrobial activity on *Escherichia coli* and *Staphylococcus aureus* by Kirby–Bauer diffusion method to see the effect against Gram-positive and Gram-negative bacteria. These prepared nanocrystals have been characterized by transmission electron microscopy (TEM), scanning electron microscopy (SEM), and X-ray diffraction (XRD). TEM and SEM images confirm the spherical morphology of both the sample and the respective XRD patterns indicate polycrystalline nature having a cubic zinc blende structure. Antibacterial activities have been tested with CdS and Ag/CdS, considering concentrations ranging from 10 to 200 µg/ml. After 24 h of incubation, the zone of inhibition (ZOI) is measured for each concentration, which shows that both the nanocrystals are ineffective against *E. coli* but much effective against *S. aureus* at this low concentration range. Furthermore, Ag/CdS nanocrystals have been found to show much more ZOI than CdS. Differences in the antibacterial activity can be due to the presence of different cell wall in *E. coli* and *S. aureus*.

KEYWORDS

Ag/CdS nanocrystals, antimicrobial activity, ligand free, TEM, zone of inhibition

1 | INTRODUCTION

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using different nanomaterials as an antibacterial agent because microorganisms show multiple drug resistance, which has become a critical issue in the field of medical science [4–6], and hence, considerable attention has been given to the utilization of nanomaterials as an antibacterial agent. Because of their high surface to volume ratio and their unique chemical and physical properties, different nanocrystals are coming up as a very good antibacterial agent [7]. These antimicrobial properties of

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NATIONAL MISSION ON HIMALAYAN STUDIES (NMHS)
G.B. Pant National Institute of Himalayan Environment (NIHE)
Kosi-Katarmal, Almora - 263643, Uttarakhand, India

Ref. No.: GBPNI/NMHS-2020-21/MG/

Date: 26.06.2020

To,

Er. Vaibhav E. Gosavi
Scientist-C
G.B. Pant National Institute of Himalayan Environment (GBPNIHE)
Kosi-Katarmal, Almora, Uttarakhand-263643

Subject: Approval of the Medium Grant (MG) for the project entitled "**Spring Rejuvenation for Water Security in Himalaya**"

Sir,

I am directed to convey the approval of the Competent Authority for the above-mentioned project at a total cost of **Rs.4,99,90,911/- (Rupees Four Crore Ninety Nine Lakh Ninety Thousand Nine Hundred Eleven Only)** for a period of three years, as per the break-up given below:-

Head	1 st year (in Rs.)	2 nd year (in Rs.)	3 rd year (in Rs.)	Total grant
A. Recurring				
(i) Salary: 01 JRF @ Rs.31,000/- + HRA @ 8% per month for first two years and Rs.35,000/- + HRA @ 8% for third year. 12 JPF/ Project Assistant @ Rs.20,000/-+ HRA @ 8% or minimum Rs.1,800/- per month for for first two years and Rs. 23,000/- + HRA @ 8% per month for third years. 01 Field Assistant @ Rs.12,000/- fix per month for three years.	3684960.00	3684960.00	4174560.00	11544480.00
(ii) Travel(Domestic):	1000000.00	980000.00	760000.00	2740000.00
(iii)Contingency:	810000.00	790000.00	520000.00	2120000.00
(iv)Consumable:	740000.00	740000.00	625000.00	2105000.00
(v) Activities & other project cost: Plantation works-78 (ha), Maintenance of plants, Contour Trenching-12985 nos, Recharge pits-383 nos, Impervious check dams-455 nos, R.R. Dry Check dams-780 nos, Vegetation check dams-2600 nos, Mud/ Stone builds/gully plugging-325 nos, Conical ponds-104 nos, Barbed wire fencing-65000 Meters, Upstream Water storage tank-13 nos, Downstream surplus water storage tank- 13 nos, Survey cost, Awareness programme, watch & ward and others and Meetings and Workshops- 13 nos., field monitoring etc.	10747044.00	10747044.00	3259343.00	24753431.00
B. Non Recurring				
(i) Equipment: Rain Gauges-36 nos Rs.10.80 lakh, Soil Moisture Sensors-36 nos Rs.43.38 Lakh, Water Level Recorder-12 nos Rs.12.00 Lakh, Laptop/ desktop-1 nos 0.80	6728000.00	0.00	0.00	6728000.00

DST/CCP/MRDP/190/2019(G)
Government of India
Ministry of Science & Technology
Department of Science & Technology
(SPLICE- Climate Change Programme)

Technology Bhavan, New Delhi
Dated **22.01.2020**

ORDER

Sub: Research proposal on establishment of a Major R&D Programme titled **“Net ecosystem production and carbon dynamics of forest ecosystems in North East India in relation to altitude and latitude gradient: Implications for carbon sink management”** to be coordinated by Mizoram University, Aizawl - 796004, Mizoram (**PI-Dr. Uttam Kumar Sahoo**) under the National Mission for Sustaining the Himalayan Ecosystem (NMSHE) -Approval of the proposal and release of grants for the first year.

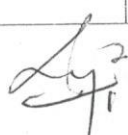
Sanction of the President is hereby accorded to the approval of the above mentioned project at a **total cost of Rs. 1,86,52,640/- (Rupees one crore eighty six lakhs fifty two thousand six hundred forty only)** for a duration of three years. The detailed breakup of the grant for General as well as Capital components and the items of expenditure as approved are given as below:-

General Component	Rs. 1,55,52,640/-
Capital Component	Rs. 31,00,000/-

Items of expenditure as approved:

Head	I Yr	II Yr	III Yr	Total
<u>Non- Recurring</u>	Rs.	Rs.	Rs.	Rs.
LI -8100 soil CO2 flux unit# (01)	1500000	--	--	1500000
Computer and accessories (01)	100000	--	--	100000
LI -8100 soil CO2 flux unit (01)	1500000	--	--	1500000
Non-Recurring Total (A)	3100000	0	0	3100000
<u>Recurring</u>				
Manpower {RA-III (02 Nos.), JRF (02 Nos.), Field Worker (04 Nos.)}	3136320	3136320	3240000	9512640
Consumables	460000	590000	590000	1640000
Travel	500000	700000	700000	1900000
Contingencies	120000	120000	160000	400000
Other Costs	300000	250000	200000	750000
Organizing Workshop	150000	0	0	150000
Sub total	4666320	4796320	4890000	14352640
OH charges	400000	400000	400000	1200000
Recurring Total (B)	5066320	5196320	5290000	15552640
Grand Total (A+B)	8166320	5196320	5290000	18652640

Institution 1: Mizoram University				
Head	I Yr	II Yr	III Yr	Total
<u>Non- Recurring</u>	Rs.	Rs.	Rs.	Rs.
LI -8100 soil CO2 flux unit# (01)	1500000	--	--	1500000
Non-Recurring Total (A)	1500000	--	--	1500000
<u>Recurring</u>				



Research Associate-III (01Nos.) @54000/Month + HRA 8%	699840	699840	699840	2099520
Field Worker-I (01 Nos.) @18000/Month + HRA 8%	233280	233280	233280	699840
Consumables	180000	270000	270000	720000
Travel	150000	250000	250000	650000
Contingencies	30000	30000	40000	100000
Other Costs	75000	75000	50000	200000
Organizing Workshop	150000	0	0	150000
Sub total	1518120	1558120	1543120	4619360
OH charges	100000	100000	100000	300000
Recurring Total (B)	1618120	1658120	1643120	4919360
Grand Total (A+B)	3118120	1658120	1643120	6419360

Institution 2: Assam University				
Head	I Yr	II Yr	III Yr	Total
<u>Non- Recurring</u>	Rs.	Rs.	Rs.	Rs.
Computer and accessories (01)	100000	--	--	100000
LI -8100 soil CO2 flux unit (01)	1500000	--	--	1500000
Non-Recurring Total (A)	1600000	--	--	1600000
<u>Recurring</u>				
Research Associate-III (01Nos.) @54000/Month + HRA 8%	699840	699840	699840	2099520
Field Worker-I (01 Nos.) @18000/Month + HRA 8%	233280	233280	233280	699840
Consumables	180000	270000	270000	720000
Travel	150000	250000	250000	650000
Contingencies	30000	30000	40000	100000
Other Costs	75000	75000	50000	200000
Sub total	1368120	1558120	1543120	4469360
OH charges	100000	100000	100000	300000
Recurring Total (B)	1468120	1658120	1643120	4769360
Grand Total (A+B)	3068120	1658120	1643120	6369360

Institution 3: Tripura University				
Head	I Yr	II Yr	III Yr	Total
<u>Recurring</u>	Rs.	Rs.	Rs.	Rs.
JRF (01 Nos.) @31000/Month + HRA 8% for 1st & 2nd year and SRF (01) @35000/Month + HRA 8% for 3rd year	401760	401760	453600	1257120
Field Worker (01 Nos.) @18000/Month + HRA 8%	233280	233280	233280	699840
Consumables	100000	50000	50000	200000
Travel	100000	100000	100000	300000
Contingencies	30000	30000	40000	100000
Other Costs	75000	50000	50000	175000
Sub total	940040	865040	926880	2731960
OH charges	100000	100000	100000	300000
Recurring Total (B)	1040040	965040	1026880	3031960

41



INSTITUTE OF ADVANCED STUDY IN SCIENCE AND TECHNOLOGY
(AN AUTONOMOUS INSTITUTE UNDER DST, GOVT. OF INDIA)

PASCHIM BORAGAON, GARCHUK, GUWAHATI- 35

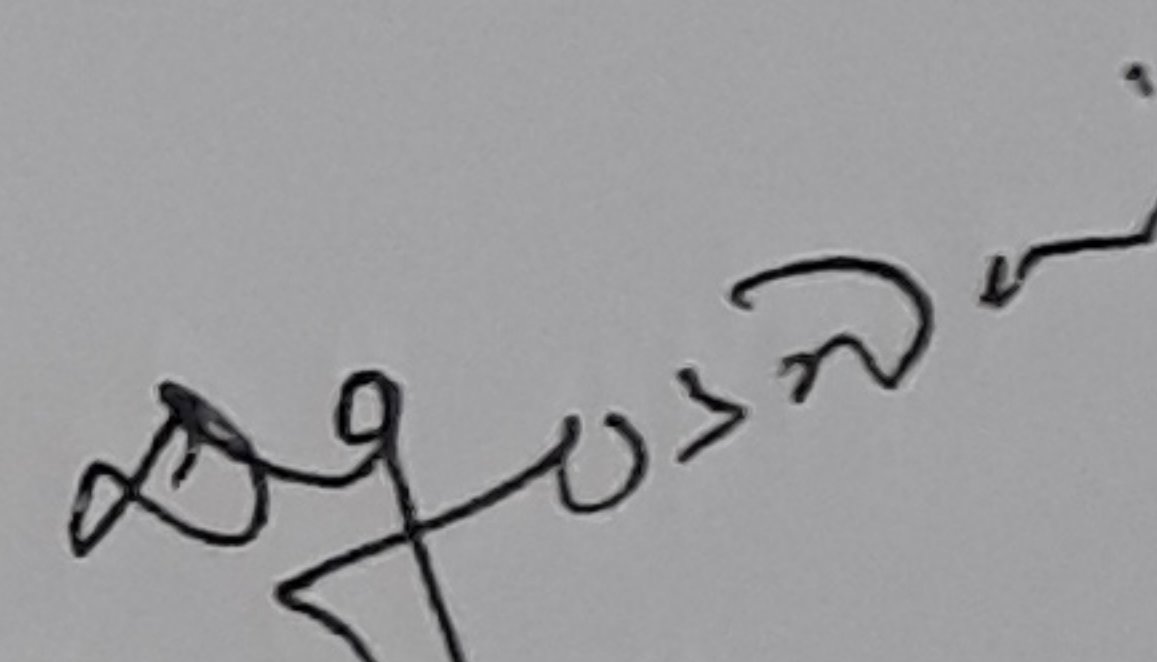
OFFICE ORDER

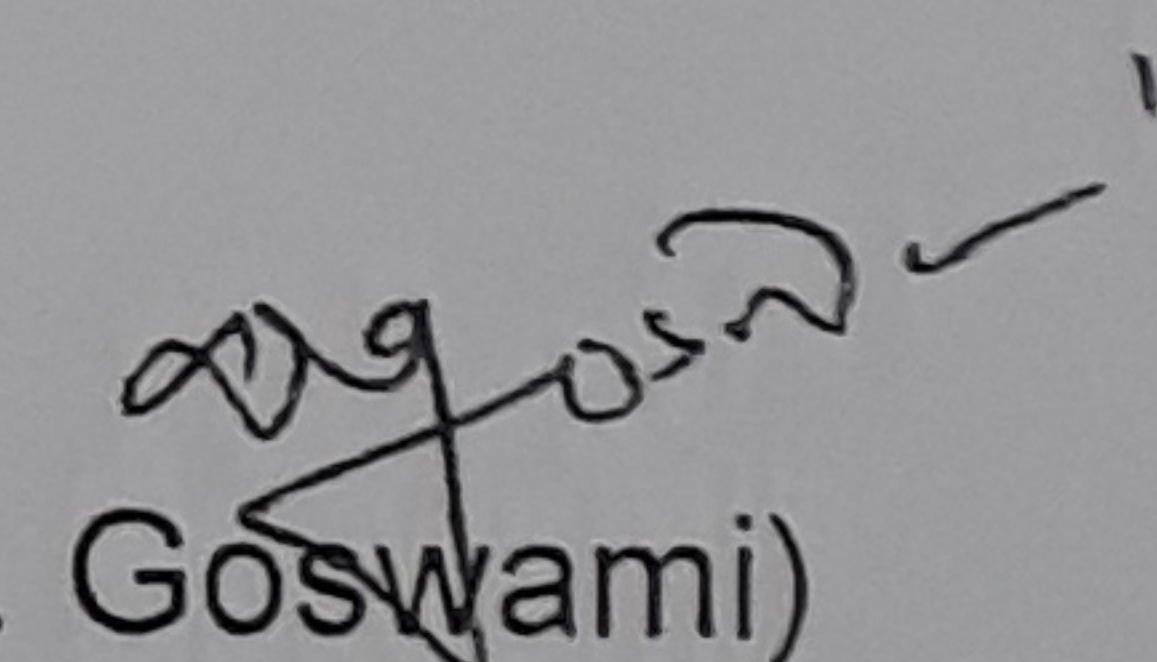
The Director, IASST is pleased to allow Dr. A R Pal, Associate Professor, PSD to carry out a collaborative research project with Gobinda Gopal Khan, Assistant Professor, Department of Material Science & Engineering, Tripura University on defect engineering of prepared nanostructures by hydrogen plasma treatment.

Material characterization facility available at IASST would be provided during the collaborative work. There will be no other financial liability on the part of IASST.

Memo No. IASST/PF/2020-21/ 52-55,
Copy to:

1. PS to the Director, IASST
2. The Chairman, Academic Committee, IASST
- ✓ 3. Dr. A R Pal, Associate Professor, PSD, IASST
4. Concerned File


(D. Goswami)
Registrar
Date: 21/04/2020


(D. Goswami)

DST/NM/NB/2018/203(G) (JMI)
Government of India
Ministry of Science & Technology
Department of Science & Technology

Technology Bhavan
New Mehrauli Road
New Delhi -110 016
Dated: 17/01/2020

ORDER

Subject:	Financial support for the research project entitled " <i>In vivo Central Venous Catheters associated biofilm infection surface treatment using nanomaterials NMs to decrease the thrombotic and infection risks</i> " by Dr. Ashwini Chauhan, Assistant Professor, Department of Microbiology, Tripura University, Tripura-799022 – approval & part release of 1 st installment of General grants .
----------	--

Sanction of the President is accorded to the above mentioned project at a total cost of **Rs. 23,97,696/- (Twenty Three Lakh Ninety Seven Thousand Six Hundred Ninety Six Only)** for a duration of 3 years with the total grant under "General" expenditure head. The detailed break-up of the grant is given below:

(Amount in Rupees)

Budget Head	1 st year	2 nd year	3 rd year	Total
Manpower-as per DST norms1 JRF @ Rs.31,000(for 2 years)+ Rs 35000(for 1year) + HRA@24% for 3 years	4,61,280	4,61,280	5,20,800	14,43,360
Consumables	1,50,000	1,50,000	1,50,000	4,50,000
National Travel	50,000	50,000	50,000	1,50,000
Contingencies	50,000	50,000	50,000	1,50,000
Sub-total	7,11,280	7,11,280	7,70,800	21,93,360
Overhead Charges (@10% of Total project cost excluding contingencies)	66,128	66,128	72,080	2,04,336
Total	7,77,408	7,77,408	8,42,880	23,97,696

2. The sanction of the President is also accorded to the release of **Rs. 1,00,000/- (One Lakh Only)** to The Registrar, Jamia Milia Islamia(JMI), Central University, Jamia Nagar, New Delhi-110025 being the part release first installment of the grant under 'Grants-in-aid General' for implementation of above mentioned project.

3. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the Performa prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

4. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

5. Since the grant has been released only under General head through one sanction order the Institute has to furnish SE/UC for the grants released through General head only.

6. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings, against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e., www.Bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/ Utilization Certificate for considering subsequent release of grant/ closure of project accounts.

7. The grant-in-aid being released is subject to the condition that:

- A transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of the grantee organisation while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.
- While submitting Utilization Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.

8. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.

...contd

9. This project does not provide for any payment of honorarium/ remuneration/ fellowship/ scholarship to the PI.

10. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.

11. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

12. Failure to comply with the terms and conditions of the Order will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

13. The expenditure involved is debited to:

Demand No.86: Department of Science & Technology for the year 2019-20:


3425	Other Scientific Research (Major Head)
60	Others
60.200	Assistance to Other Scientific Bodes (Minor Head)
69	Research and Development
69.00.31	Grants-in-aid General for the year 2019-20
(Nano Mission 3425.60.200.36.00.31)	

14. The amount of **Rs. 1,00,000/- (Rupees One lakh only)** will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to **The Registrar, Jamia Milia Islamia(JMI), Central University, Jamia Nagar, New Delhi-110025**. The bank details for electronic transfer of funds through RTGS are given below:

1.	Name of the Account Holder	Registrar, Jamia Milia Islamia
2.	Name of the Bank	Indian Bank
3.	Bank Account Number	443259891
4.	IFSC Code	IDIB000J029
5.	MICR Code	110019041

16. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 131 **NMD** in the register of grants maintained in the Division for the scheme Nano Mission.

17. This issues with the concurrence of IFD Vide their **Dy.No. C/ 5162 / IFD 2019-20 dated 17/01/2020**


(Namrata Pathak)
Scientist-F

To,
The Pay & Accounts Officer, DST

Copy forwarded for information and necessary action to:

1. Drawing and Disbursing Officer, DST, Cash Section. (Copy with two spare copies)
2. Integrated Finance Division, DST

3. Dr. Ashwini Chauhan Assistant Profesor Department of Microbiology, Tirupura University, Tirupura-799022	4. Registrar Tirupura University, Tirupura-799022
5. Dr. Manika Khanuja Assistant Professor Nano Science and Nano Technology, Jamia Milia Islamia (JMI), Central University, Jamia Nagar, New Delhi - 110025	6. Registrar Jamia Milia Islamia (JMI), Central University, Jamia Nagar, New Delhi - 110025

7. **The Principal Director of Audit, Scientific Departments, Illrd floor, AGCR Building, I.P. Estate, New Delhi- 110 002.**

6. Sanction folder (Nano Mission)	7. File copy
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(Namrata Pathak)
Scientist-F



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
(Formerly WEST BENGAL UNIVERSITY OF TECHNOLOGY)
Main Campus: NH 12, Haringhata, Post Office - Simhat, Police Station – Haringhata, Pin - 741249
City Campus: BF-142, Sector -I, Salt Lake, Kolkata -700 064

No.2.12.14/Regis./MTG(SRC)/2020

Dated: 15.12.2020

To,
Dr. Shaon Ray Chaudhuri,
Associate Professor, Department of Microbiology,
Tripura University, Suryamaninagar, Agartala, Tripura, Agartala, Pin: 799022.

Dear Madam,

With reference to your email addressed to Hon'ble Vice-Chancellor, I am pleased to inform you that your proposal for collaborative work between Microbial Technology Group (Tripura University) and COEETM (Centre of Excellence in Environmental Technology and Management" of MAKAUT, WB has been accepted by the Competent Authority for implementation with respect to working on treatment at the Sewerage Treatment Plant (STP) developed at the Haringhata Campus of the university for nutrient removal (ammonia and nitrate). For expediting the work on the proposal floated by you, a Task Force has been constituted in the manner as noted below:

1. Dr. Indranil Mukherjee - Convenor
2. Dr. Ananta Das
3. Dr. Chabita Saha
4. Dr. Sharadindu Chakrabarty
5. Dr. Shaon Roy Chaudhuri

You are requested to proceed for implementation of your proposal in coordination with the Task Force constituted. The working of the Task Force shall be with immediate effect from the date of issuance of this letter.

Thanking you,

With regards,

Dr. Partha Pratim Lahiri,
Registrar, MAKAUT, WB.



Band gap engineering of cadmium selenide nanocrystals using 120 MeV Ag⁷⁺ swift heavy ions, alongside theoretical evidence through PBE+U analysis

Debojyoti Nath ^a, Fouran Singh ^b, Ratan Das ^{a,*}

^a Nano-Physics & Nanotechnology Research Laboratory, Department of Physics, Tripura University, Suryamaninagar, 799 022, India

^b Inter University Accelerator Center, Aruna Asaf Ali Marg, New Delhi, 110 067, India



ARTICLE INFO

Article history:

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4 May 2020

Accepted 5 May 2020

Available online 11 May 2020

Keywords:

SHI irradiation

Surface modification

First principle study

Band gap engineering

Charge density

ABSTRACT

The interaction of 120 MeV Ag⁷⁺ swift ions with the chemically prepared cadmium selenide nanocrystals have been studied in this work through XRD data analysis. Atomic force microscopic study provides the information that with SHI irradiation, average grain size increases and surface modification takes place. Thermal spike model gives an idea about the changes in the lattice structure due to SHI irradiation, which induces lattice geometry reorientation. Such changes in lattice geometry result in modification of band structure as well as density of states of the bands and therefore modification in the band gap of the prepared sample takes place. Theoretical study of the band gap tuning has been performed using first principles based on Quantum espresso Code through PBE + U analysis, which supports the results as obtained from experimental diffuse reflectance spectra and Photoluminescence spectral study. Hence, both the experimental and theoretical study confirm the band gap engineering of CdSe nanocrystals through SHI irradiation.

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1. Introduction

Semiconductor nanocrystals of Gr II-VI in the size range of 1–100 nm possess attractive luminescence properties, which are application for different optoelectronics devices [1]. Among them, cadmium selenide is one of the important semiconductor nanocrystals for its versatile applications [2]. These luminescent properties along with other properties can be modified through either doping with suitable dopant [3] or through irradiation of swift heavy ions (SHI), which is found to have the additional advantage of surface modification of the sample [4]. Swift heavy ion (SHI) irradiation method has been used widely in recent times as SHI can induce changes in the material properties at the atomic level through electron-lattice interaction and that depends on the specification of the heavy ion [5]. Such SHI irradiation results in formation of cylindrical ion tracks due to the transfer of energy to the lattice structure, which effects the lattice geometry of the sample [6]. Thermal spike model theoretically explains this phenomenon of ion track formation with

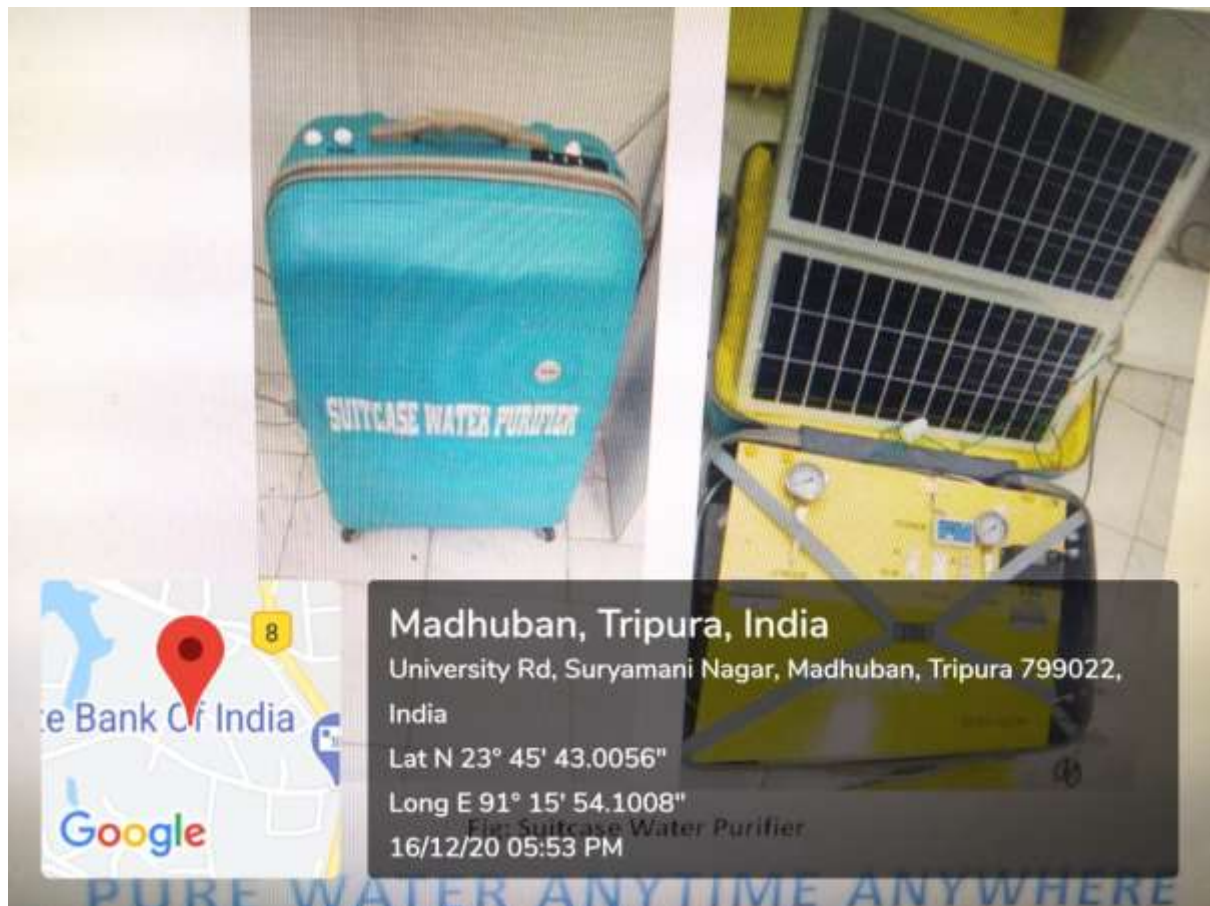
modification in the lattice geometry [7]. Depending on the specification of the heavy ion, overlapping of ion tracks takes place, which induces different point defects, defect states, color centers in the material [8].

SHI has been found to be the most effective against modification of the properties of semiconductor nanocrystals, as many authors reported the change of band gap, specially of Gr II-VI semiconductor nanocrystals [9]. Among this group, SHI irradiation effect on CdSe nanocrystal has been studied by only a few authors that are related to the changes in the structural, optical and electrical properties [10]. CdSe exhibits a direct bandgap of 1.74 eV with exciton Bohr radius of 6 nm, which results in better carrier mobility. Therefore, CdSe nanocrystals are of great interest for using it in different luminescence devices especially in LED. Further, SHI irradiation can tune the optical band gap with significant change in the density of charge carriers for suitable purposes, so irradiated sample can be application for better application purposes. Recently, Choudhary et al. [4] has reported about the decrement in the optical gap with the ion irradiation of Ag⁹⁺ heavy ions. Singh et al. [10] has also studied the effect of Ni⁷⁺ ions irradiation on the structural and electrical properties of CdSe. Thus, SHI interaction can be utilized in band gap

* Corresponding author.

E-mail address: dasratanphy@gmail.com (R. Das).

Mr. Harjeet Nath (Assistant Professor, Chemical and Polymer Engg.) has developed a water purification system operated by Solar energy. The system is estimated to provide 400 litres of pure water per day at affordable price. The department will use this energy efficient and sustainable system for purification of laboratory's waste water. A patent has been filed by Mr. Nath to patent this technology (Patent Details: "Water Purification System" IPO (Indian Patent) with Application Number TEMP/E-1/54944/2019-KOL dated 14/12/2019)



Details on COVID19 WARBOT

COVID19 WARBOT- A RC controlled Robot to help health warriors working in Corona Positive wards in Hapania Covid Care Unit, Agartala

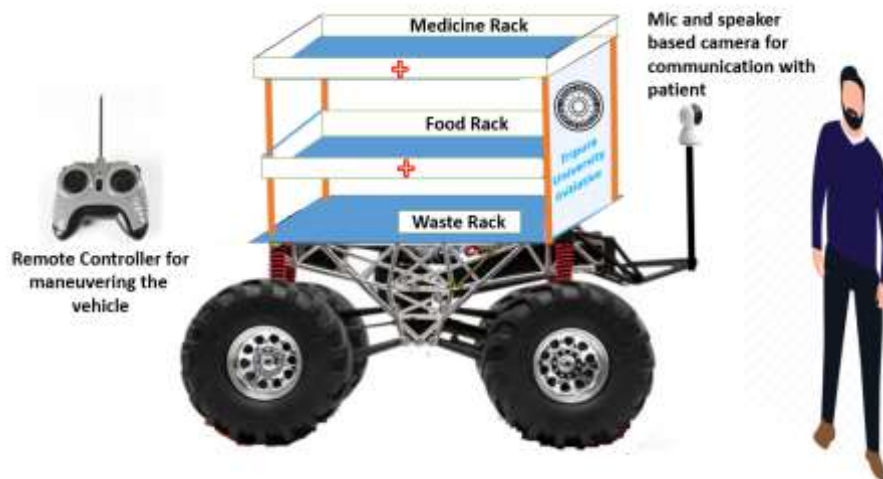
(Innovator: Shri. Harjeet Nath, Assistant Professor, Tripura University)

harjeetnath@gmail.com

+91-9954246498

Motivation and Concept:

Various advanced countries of the world have developed various autonomous robotic devices for using in Covid19 treatment hospitals in order to reduce the contamination chances of the health works as far as possible. Such devices were either very sophisticated to make or are very costly which inspired the development of one such cost effective device with the minimum spare parts available in Tripura, a state far away from mainland India and technologically and industrially underdeveloped. Accordingly, an autonomous robot has been developed which can be controlled remotely & capable of delivering food packets, water bottles and medicines to patients directly to their beds any time whenever required thereby reducing the contamination chances the health workers by the infected ones. A two way communication device as also been incorporated in the form of a smart camera with inbuilt microphone and speaker which helps patients communicate directly with nurses and doctors sitting at a safe place. The camera is WiFi controlled and the doctor can view the patients and communicate with them directly through a mobile phone/computer present with the doctor/nurse where the health official can see the live video of the patient and the patient on the other side can only listen to the health official's advice and act accordingly. All these steps reduced the frequent visits to the infected persons for small things which an autonomous robot like this. The robot can be easily sanitized and made to work again.



Remote controlled integrated vehicle for transport of medicines/foods/essential items to and from patients without human intervention and camera with built in mic and speaker

Patients can speak with doctors using the built in mic and speaker camera and share her conditions. The vehicle can deliver foods and medicines as well as other important items whenever required



The robot can carry a total of around 10-15 kg of materials and its operation range is 15-20 meters. The total power of the internal rechargeable batteries is around 135 Watts capable of getting charged in around 3-4 hours and can move continuously for around an hour. Let's technology rescue us during this pandemic. The device has been named as **COVID19 WARBOT** meaning a "robot's war during corona".

The pictures of the setup can be seen below.



COVID19 WARBOT



- Carry loads upto 15 Kgs very easily
- Works on rechargeable lead acid batteries
- Full charge can work for around 45 minutes
- Consists of 4 racks (Medicines, food packets, water bottles, miscellaneous)
- Works on 2.4 Ghz transmitter-receiver
- Can be handled from 20 metres distance
- Smart camera installed for communication between patients and doctors

TRANSMITTER/RECEIVER (REMOTE CONTROL)

- In electronics and telecommunications, a transmitter or radio transmitter is an electronic device which produces radio waves with an antenna.
- The transmitter itself generates a radio frequency alternating current, which is applied to the antenna. When excited by this alternating current, the antenna radiates radio waves.

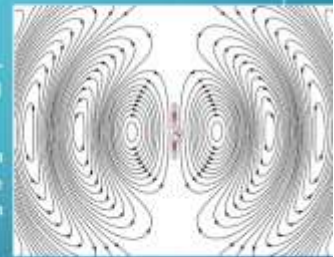


Consumer products that contain transmitters

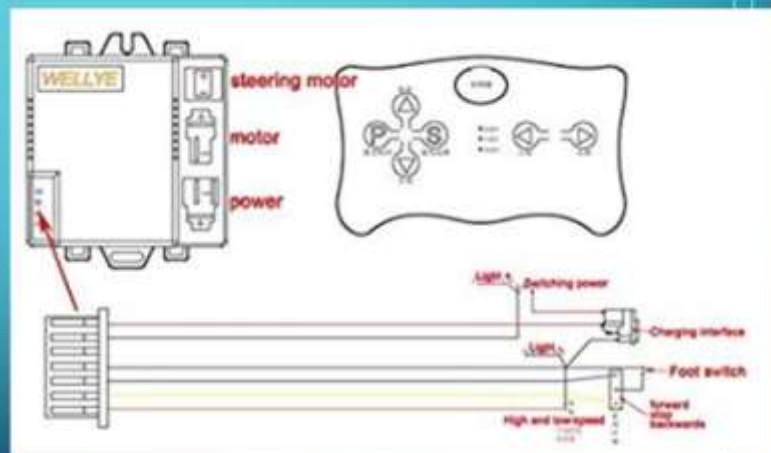


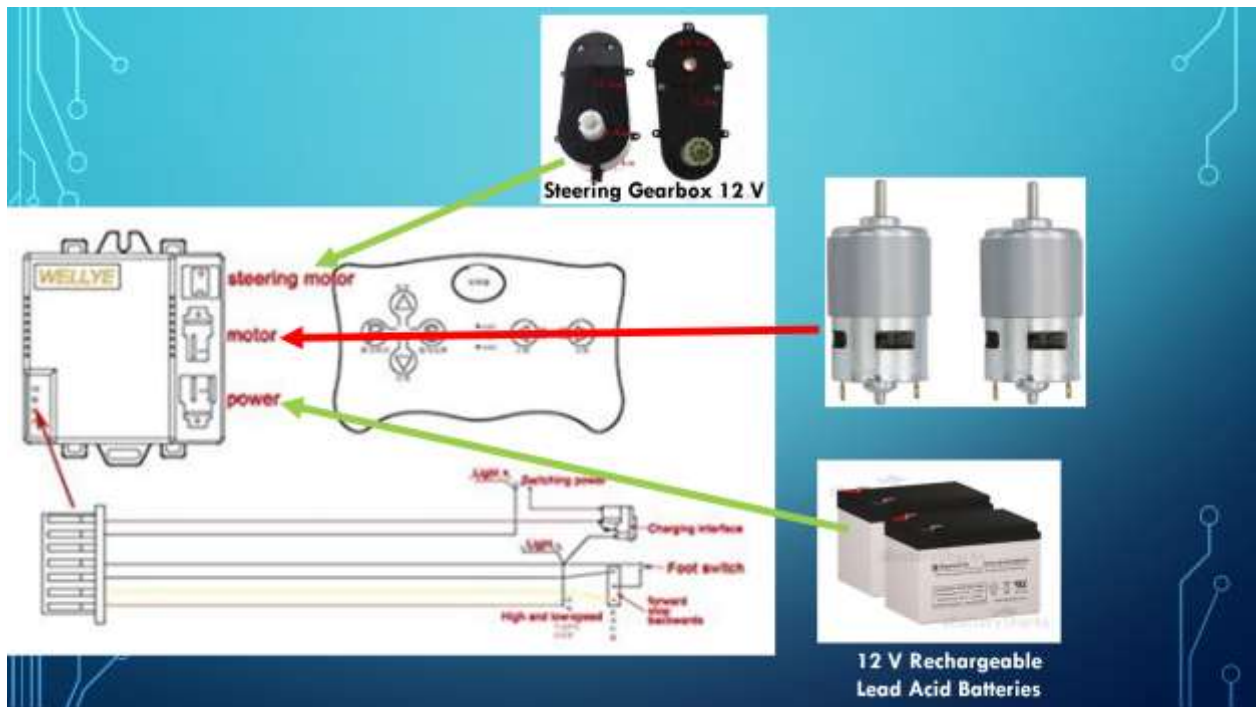
OPERATION OF TRANSMITTER & RECEIVER

- **Electromagnetic waves** are radiated by **electric charges** when they are **accelerated**.
- **Radio waves**, electromagnetic waves of radio **frequency**, are generated by time-varying **electric currents**, consisting of **electrons** flowing through a metal conductor called an **antenna** which are changing their velocity and thus accelerating.
- An **alternating current** flowing back and forth in an antenna will create an oscillating **magnetic field** around the conductor. The alternating voltage will also charge the ends of the conductor alternately positive and negative, creating an oscillating **electric field** around the conductor.
- If the **frequency** of the oscillations is high enough, in the **radio frequency** range above about 20 kHz, the oscillating coupled electric and magnetic fields will radiate away from the antenna into space as an electromagnetic wave, a radio wave.
- The transmitter also impresses information such as an **audio** or **video signal** onto the radio frequency current to be carried by the radio waves.
- When they strike the antenna of a **radio receiver**, the waves excite similar (but less powerful) radio frequency currents in it. The radio receiver extracts the information from the received waves.



2-40 Remote Control
And Receiver Kit Controller
Control Box





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अपनी जीत हो, #COVID19 की हार हो। #AtmaNirbharBharat

A professor from Tripura has designed a warbot to prevent nurses & doctors from getting infected while treating #COVID19 patients.

Share stories of champions with us using #CoronaWarriorsIndia...

See More

Provide translation to Hindi



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TRIPURA TIMES

Print & Larger Combined English Newspaper in Tripura

Agartala, May 17, 2020



Eastern Chronicle

WINDOW TO THE EAST

Agartala, May 17, 2020

Professor designs robot to prevent COVID spread

Silchar scientist designs robot to prevent Covid contraction

Silchar scientist posted in Agartala designs robot to prevent Covid contraction

Web Links

TRIPURA TIMES

<http://www.tripuratimes.com/Default.aspx>

Eastern Chronicle

Kolkata Edition

<https://www.easternchronicle.net/index.php?city=4&edition=17052020>

Guwahati Edition

<https://www.easternchronicle.net/index.php?city=2&edition=17052020>

Silchar Edition

<https://www.easternchronicle.net/index.php?city=1&edition=17052020>

- Tweet by Honble MHRD Minister Dr. Ramesh Pokhriyal "Nishank" dated 04/07/2020 for development of "Touchless hand sanitizer system with integrated waste water treatment and recovery system". Link: <https://twitter.com/DrRPNishank/status/1279365546308337667>
- Facebook post by NITI Ayog dated 22/05/2020 for development of COVID19 WARBOT mentioning

#AtmaNirbharBharat. Link: <https://www.facebook.com/NITIAayog/photos/a.892531720780329/3369462303087246/?type=3&theater>

- <http://www.telegraphindia.com/states/north-east/tripura-university-professor-develops-water-purifier-for-flood-affected/cid/1728658> (Suitcase water purifier)
- <https://www.hindustantimes.com/india-news/tripura-professor-builds-robot-to-help-covid-19-frontline-warriors/story-Ky0pZwt0hVOc65iTYJm8M.html>,
- <https://www.timesnownews.com/india/article/tripura-professor-designs-covid-19-robot-to-limit-contact-between-corona-warriors-and-patients/594850>
- https://timesofindia.indiatimes.com/city/agartala/tripura-university-professor-designs-robot-to-protect-doctors/articleshow/75824878.cms?utm_source=facebook.com&utm_medium=social&utm_campaign=TOIMobil
- https://www.nationalheraldindia.com/science-tech/tripura-scientist-makes-robot-to-take-care-of-corona-patients?fbclid=IwAR1hytbwynDo_yMty7igf-2DBJyBJ34GNO9osBKRHg6ukl6pEGnSUJgqmrQ
- <https://www.youtube.com/watch?v=vjVhZk-iFro&t=26s>
- <https://www.youtube.com/watch?v=SOagWGgzNdA&t=89s>
- https://doc-0k-44-apps-viewer.googleusercontent.com/viewer/secure/pdf/j17cmhp2adlnm68toi9djiqnp886ra4g/kvfvttth3p12vaek38bm8c8cpifsrkd6p/1591550550000/lantern/16659958532762896135/ACFrOgCkSDym5WBKqHe9IVCgFolYrTC7A_1wtPMzOCwB15HhcvMzhhdhbmJjgq8O0tPn3ummFRsC9Wfx0BaxKey4Q7YCiy96c45t_BLuqpwfO_4VGN1-MXVxscDgWbIMQpbEUKR5VvTI1P003vRJd?print=true&nonce=f87q2v17402fm&user=16659958532762896135&hash=doee67aokod69ihahmk80t7hk0ooqmpb (Contactless hand wash with integrated water treatment system)
- <https://www.easternchronicle.net/index.php?city=1&edition=07062020>



2_3 Centre for Bamboo Cultivation and Resource Utilization, Department of Botany, has a dedicated course to inspire and develop life skills among students through participative training in Bamboo and cane-based handicrafts

Courses	Institute
PG-Diploma in Bamboo Cultivation and Resource Utilization (BCRU)	Bamboo & Cane Development Institute, Govt. of India, Lechubagan, Agartala



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 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 Institutions.

Workshop details:

Sl. No.	Date	Duration	Title	Remarks
1	28 th April to 18 th May	Two Weeks	Training of Bamboo Basket Making under India Tripura Skill Competition 2018, sponsored by Directorate of Skill Development, Govt. of Tripura	The basic bamboo handicraft workshop conducted by BCRU, total 10 participants was trained by artisan for making bamboo basket. The training was focused

				<p>on:</p> <ul style="list-style-type: none"> ✓ About Bamboo and Dang ✓ Bamboo cutting ✓ Bamboo strip peeling and treating (theory) ✓ Bamboo weaving ✓ Bamboo tea coasters ✓ Bamboo baskets ✓ Bamboo lamps
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Major Instruments available in the Department: Laminar Air Flow, GPS, High Precision Balance 3.UV – VIS Spectrophotometer. Bamboo Stick Polishing Machine, Bamboo Knot Removing and Sliver Making Machine, Bamboo Cutting Machine, Bamboo impact splitting machine, GIS laboratory and Projector facilities, other minor bamboo crafting and nursery tools etc.

Mushroom cultivation Programmes

Workshop held on: 25th to 28th September 2019



Workshop held on: 6th to 10th October 2020



Field Study/Survey from 2015 to 2020

1. Mrs. Jimmi Debbarma & Dr. Nibedita Das (Pan) along with 13 nos. of Students conduct field study at Majuli, Assam from 19.09.2015 to 30.09.2015.
2. Dr. Eshita Boral and Mrs. Jimmi Debbarma along with 21 nos. of student's field study at Leh-Ladak(J&K) from 22.07.2016 to 06.08.2016.
3. Mrs. Jimmi Debbarma & Dr. Susmita Bhattacharjee along with 21 nos. of student's conduct field study at Malavli Pune, Maharashtra from 30.08.2017 to 20.09.2017.
4. Mrs. Jimmi Debbarma & Dr. Susmita Bhattacharjee along with 19 nos. of student's conduct field study at Dalhousie, Himachal Pradesh from 02.09.2018 to 18.09.2018.
5. Dr. Mousami Debbarma & Dr. Saptarshi Mitra along with 23 nos. of student's conduct field survey at Shillong, Meghalaya from 24.08.2019 to 04.09.2019.
6. 2020- Field visit convert to Project due to COVID-19 situation under Dr. Eshita Boral Assistant Professor total 25 nos. of students.

Field Survey 2015

The field survey 2015 was held at Majuli, Assam, with 13 students and two faculties (Mrs. Jimmi Debbarma, Assistant Professor and Prof. Nibedita Das (Pan)).

The study was on “ A Livelihood Analysis of Majuli Island, Assam”

The island of majuli is formed by Brahmaputra River in the south and the Kherkutia Xuti, another branch of the Brahmaputra, joined by the Subansiri River in the north. The island is about 200 kilometers from the state's largest city-Guwahati. The Majuli was a second sub-division of Jorhat District of Assam during study, now a full-fledged district. The mystical island majuli is known to be one of the inhabited freshwater river islands in the world. It lies between 26' 45' N and 27' 15 N and between 93 45 E & 94 30 E. The study was concerned with the status of livelihood and erosion in selected six villages of Kamalabari Block. The problem of the study area was the Majuli Island has been shrinking in size over years primarily due to the phenomenon of bank erosion. The situation worsens during floods rendering hundred homeless and many more affected indirectly. Displacement due to river erosion continues to create impoverished families. People living in the marginal land are severely affected and population displacement disrupts economic and socio-cultural structure. The objective of the study was to study the status of housing, sanitation and drinking water, to get an idea of the livelihood status of the study areas, and to study the effect of erosion of river Brahmaputra on part of majuli.



Field Report-2016

The field survey 2016 was held at Ladakh(J&K) with 21 students and two faculties (Dr. Eshita Boral, Assistant Professor & Mrs. Jimmi Debbarma, Assistant Professor). The topic of the study was ‘Human Adaptation to Physical Constrains in High altitude: A case study of Leh Ladakh District (Jammu and Kashmir)’.



Field Survey 2017

The field survey 2017 was held at Malawli, Pune, Maharashtra, with 21 students and two faculties (Mrs. Jimmi Debbarma, Assistant Professor and Dr. Susmita Bhattacharjee, Guest Faculty). The topic of the study was 'Impact of Historical Tourism on the Livelihood Pattern in Malawli, Pune , Maharashtra'.

Malawli is known for historical tourism having the imprints of Veer Shivaji and Buddhist influence. The major historical sites are Visapur fort, Lohgad fort, Bhaja Buddhist cave, Karla Buddhist cave etc. The main objective of the study was to analyse how the development

t of historical tourism in this region affected the livelihood pattern of the people.





Field Survey 2018

The field survey Of 2018 was held at Dalhousie, Himachal Pradesh, with 19 students and two faculties (Mrs. Jimmi Debbarna, Assistant Professor and Dr. Susmita Bhattacharjee, Guest Faculty). The topic of the study was ‘Urban Perspective of a Hilly Town, A case Study of Dalhousie, Himachal Pradesh’.

Dalhousie is an important tourist town of the Himalayas. The hilly small town of Dalhousie has undergone drastic changes with the development of tourism. The major objective of the study was to find out how Dalhousie has grown as a major tourist town of Himachal Pradesh over time and how the urban growth has affected the socio-economic status of the people.





Field report 2019

A field survey was conducted in survey in Shillong, Meghalaya w.e.f. 24th August 2019 to 3rd September 2019 as part of the M.A. /M.Sc. 3rd semester syllabus with 23 students of M.A. /M.Sc. 3rd semester. The 23 students have successfully completed the field report on “Role of women in development” under the supervision of Dr. Mousami Debbarma. Dr. Saptarshi Mitra also accompanied the students.

Shillong, Meghalaya has been selected due to its geographical significance on being located in the plateau region with many geographical landscapes for study. The state also has unique tradition of being a matrilineal society in the world.



Field report 2020

The title of the Field Report was ‘Societal Impact of COVID-19 Pandemic: A Geographical study of Tripura’ under the supervision of Dr. Eshita Boral, Assistant Professor, Department of Geography and Disaster Management, Tripura University.

Business Management

Industrial Tours

- On 25th November, faculties of management department visited the OTPC plant at Palatana, Udaipur in the morning, namely Dr. Debarshi Mukherjee HOD & Associate Professor, Manish Das Assistant Professor, Nirmalya Debnath Assistant Professor, Mahasweta Das Saha Assistant Professor and Monalisa Chanda, Guest Faculty. The primary purpose of the visit was to forge strong bond with this industry which may help in training and placement opportunities for the students and training/project opportunities for the faculty members.

Head of the Human Resource Dept, OTPC received us at the gate and we were ushered to their state-of-the art board room where a corporate video of the company was shown to us followed by meeting with the Vice President of the company, Mr. Sudin Chattopadhyay. He discussed the basic plant infrastructure, working concepts and challenges being faced by them. One of major challenges was to maintain the machineries of the plant due to lack of technical experts available in Tripura. Few positives included his journey of establishing eco-friendly plant with natural flora and fauna inside the plant. After the presentation, we visited state-of-the-art training centre of the plant along with the Vice President and the Human Resource Manager. Further, the HR Executive took the faculty team for a complete round of the plant followed by lunch. After lunch, we visited the board room and further discussed about the manpower, quality issues and, other challenges being faced by the plant.



- Department of Business Management, Tripura University (A Central University) organized one local industrial visit for the MBA 1st semester students on 11/11/2017 (Saturday) with financial aid from the university. The objective of the visit was to acquaint students with various aspects of industrial working. This visit is a compulsory one having certain weight associated which will reflect in exam performance based on presentation and report submission. Students visited

three industries from MSME sector operative in Tripura: Mutha Industries limited, Annada Spices Private Limited and Pran Beverages India private limited. Mutha Industries in Tripura produce furniture, wood, tiles and other home interior items from bamboo, a rich natural resource of the state. Students visited the production facility of Mutha, spanning across 5 acres (approx.) of land located in Bamboo Park, Bodhjang Nagar Industrial Estate, Tripura. Some glimpses of the visit are as follows:



- After Mutha Industries, students went to Annada spices private limited, one of the new establishment in the area of spices packaging and marketing in Tripura. The students are briefed about various aspects of packaging, labeling, production, and marketing strategies adopted by Annada spices as well as future plan of the group by the representatives of the firm. Some of the captured moments of the visit are as follows:



- The next destination was Pran Beverages India Private Limited, a foreign arm of Pran Industries Bangladesh. This industry deals with some well known FMCG products and brands such as Mr. Noodles, Frooto, Pran Lichi Drink, Confectionary, Pran Rusk, Pran Bread and other bakery items. Students are exposed to various production lines and the production process. Students are also briefed about the quality policy and research and development initiatives of Pran along with their future business growth plan. During the visit, students were enthusiastic and eager to learn various aspects of actual production and management that they were exposed to through secondary knowledge sources.
- On 3/1/2017 a team of MBA final semester students embarked on a outbound journey organized by the department for the first time to visit industries in Delhi NCR. The industry visit started from 6th morning. First the team of thirty one students and three accompanying faculty/staff members reached Anmol Bakers Pvt Ltd in their Greater Noida plant. The HR Executive started the visit with a presentation about the genesis and area of operation of the company and later took the team for a complete round of the factory. Afterwards the team went to India Exposition Mart Ltd in Greater Noida which is the one of biggest in India and holds many international trade fairs round the year. On 7th Jan the students visited the studio of ABP News in Noida Sector-60. The students saw live news broadcast and interacted with the Chief Technology Officer who obliged the team by answering the queries of the students. On 9th Jan the team went to Oerlikon Graziano Ltd which is one of the biggest gear box manufacturing companies in the world. We received a dose of safety training before entering the shop floor. The students saw various processes of production which starts with cutting the raw steel using high precision imported machines. We had our lunch in the factory with other workers to feel the factory environment. On 10th Jan the team visited three companies. In the morning the team went to Control Switchgear Electric Ltd which is into manufacturing of electrical transformers. From there the team went to the Buddha International Circuit owned JayPee Group which hosts various motor racing events in NCR. The students walked through the Formula 1 racing track. Later in the afternoon we went to New Holland Tractors, an US Multinational with a workforce of 1700 working in a single plant that boasts of having

implemented world class manufacturing systems (WCM). The students began the visit post having lunch at their canteen. The entire process of tractor manufacturing was explained to the team. The team could see robotic arms doing high precision cutting jobs, overhead conveyers ferrying parts which was followed by an interactive session with the Head of HR. 11th January was the last day of the visit and we went to Aflatus Gravure Pvt Ltd which is into manufacturing of finely curved cylinders used for printing packaging materials. Our last visit was at the Network 18 studio at Film city at Noida, Sector-16A. The Head of Learning & Development engaged with the students and shared various business strategies of the TV channels ranging from news composition to revenue mapping. The students were accompanied by Dr. Debarshi Mukherjee Associate Professor DoBM, Nirmalya Debnath Assistant Professor DoBM and Rina Ghosh UDC, Exam Cell.



ABP News Studio, Noida - Sector 60



Oerlikon Graziano, Greater Noida



Oerlikon Graziano, Greater Noida



New Holland Tractors, Greater Noida

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Mutha Industries in Tripura produce furniture, wood, tiles and other home interior items from bamboo, a rich natural resource of the state. Students visited the production facility of Mutha, spanning across 5 acres (approx.) of land located in Bamboo Park, Bodhjang Nagar Industrial Estate, Tripura. Some glimpses of the visit are as follows:



Students In front of Mutha Plant



Students observing the production process



Typical Finished goods from Mutha Industries

- After Mutha, the next destination was Pran Beverages India Private Limited, a foreign arm of Pran Industries Bangladesh. This industry deals with some well known FMCG brands such as Mr. Noodles, Frooto, Pran Lichi Drink, Confectionary, Pran Rusk, Pran Bread and other bakery items. Students are exposed to various production lines and the production process. Some glimpses of the visit are as follows:



Entering Pran Beverage production facility Faculty members testing new launches of Pran



Faculty members with Pran Production Head

After completion of the visit, students submitted their report on various aspects of the visit backed by presentation of the visit.

Department of Rural Studies _PRA exercises conducted by students

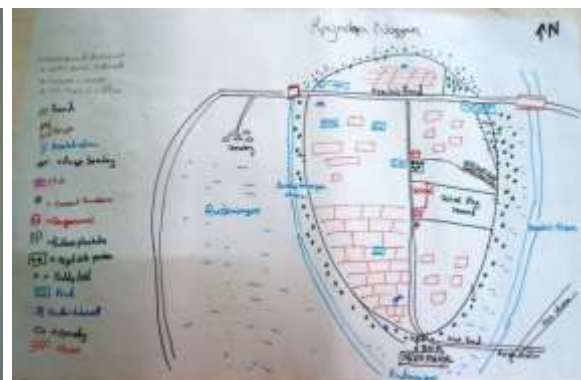




Department of Forestry and Biodiversity have specially included PRA exercises in their Masters' project work to enable students to identify problem areas and Entry Point Activities

ACTIVITY 1

A PRA exercise was conducted on 25th November, 2017 in Rudrasagar area to prepare a resource map of the area. Total 141 local people (male 125 and female 16) from 18 villages attended in the programme. It was observed through PRA exercise that the fish is the widely used resource as food by the local people. People of the area like to utilize their aquatic resources specially water hyacinth for craft preparation. They also like to do organic farming instead of chemical fertilizer. Seven (07) resource maps of different villages adjacent to the Rudrasagar lake were prepared by the community people.



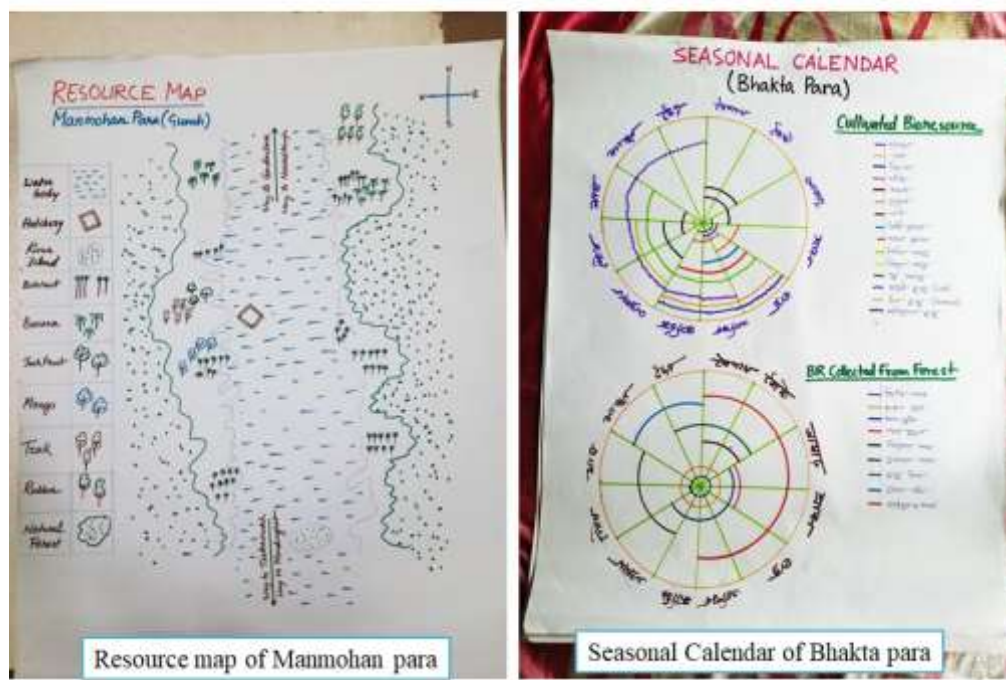
ACTIVITY 2

PRA Activities Conducted by Dr Thiru Selvan under the NMHS funded Project Conservation of Biodiversity and livelihood enhancement through Community based Forest Management and Ecotourism in and around after life Small Hydropower project

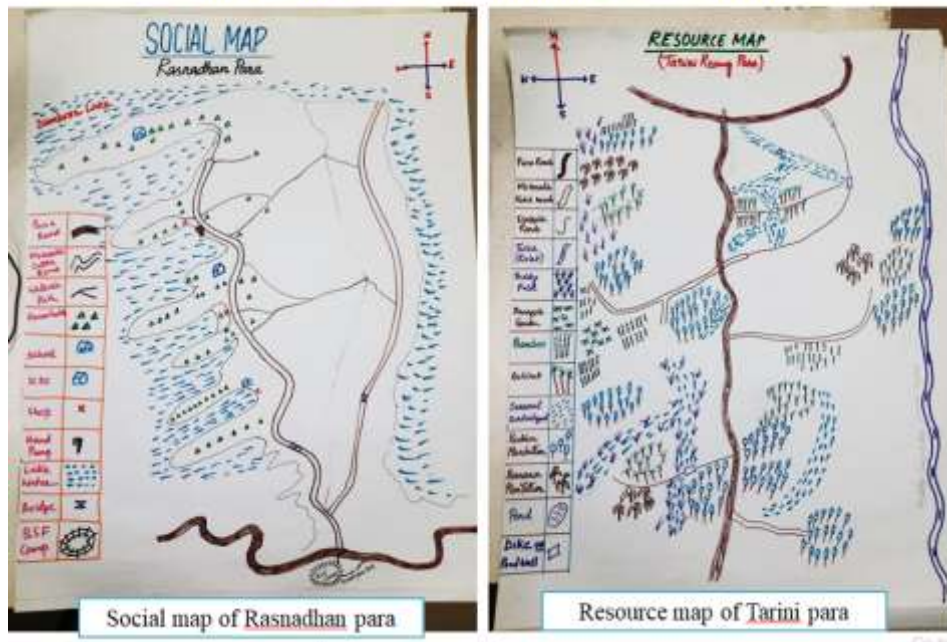
PRA Exercise at different beneficiary villages



Information generated through PRA Exercise



Information generated through PRA Exercise



ACTIVITY 3

One Day training on Community based Forest management and Ecotourism as livelihood option



ACTIVITY 4

Sensitization Programme at beneficiary villages



ACTIVITY 5

Training of Forest officials of Gumti WLS by PI & Co-PI



4_Department of JMC the students were involved in the making of a full-length feature film based on the rich folklore traditions of Tripura under the stewardship of faculty from the department



Kwtham Kothoma



RELEASING
SCREENING
of
"KWTHAM
KOTHOMA"
&
Felicitation
of
Artists



CHETHUWNG
Direction: Sunil Kalai

Castings: TIYARI Drama & Cultural Center
Tarena Debbarma
Dona Kishore Debbarma
Madhusudan Debbarma
Rima Debbarma

Script: Rishi Debbarma
Camera: Sarat Reang
Editing: Angshumoy Debbarma

Thursday
13th
February
2020
Hall 2,
Academic
Building
11
Tripura
University
Campus



NOHAI
Direction: Sunil Kalai
Script: Saslang Jamatia
Camera: Sarat Reang
Editing: Angshumoy Debbarma

Castings: Jorak Film Industry
Joranta Debbarma
Roshni Debbarma
Monica Debbarma
Payal Debbarma

Produced
in
Collaboration
with
Tribal
Research
&
Cultural
Institute,
Govt. of Tripura
and
Department
of
Information
and
Mass
Communication,
along
with
Burel
Media,
Tripura
University










**Kuchuk
Kherengbar**
Direction: Sunil Kalai

Castings: TIYARI Drama & Cultural Center
Rangoler Debbarma I Santa Debbarma
Birchandra Debbarma I Sudipa Debbarma Binod Debbarma

The delicate theme ably represented through the lenses, meticulously displayed rich customs, traditions, law, escapist, courage, justice and empowerment of the indigenous. continuity to the litric space has depleted after the homework of myths. The three folktales described symbiotic relationship between the nature and mankind. Each one has its own account of tales: the director is a scholar who undertook to record elderly people to keep on their descriptions of these tales. He sensed the probability of disaster about the correlation between history and these folktales. The need arises to represent these exordials through the cinematic space leaving great significance in our lives beyond the litric culture.

The Director is an Assistant professor, Journalism and Mass Communication, Tripura University and a Research Scholar, AJAY MCWC, Jorak Media Institute, New Delhi, India. He is a graduate in Media Technology from St. Anthony's College, Shillong, Meghalaya and an M.Sc. in Visual Communication from Loyola College, Chennai.

Kwtham Kothoma




The three folk tales

Direction:
Sunil Kalai

Script:
**Rishi Debbarma
Saslang Jamatia**

Camera:
Sarat Reang

Editing:
Angshumoy Debbarma



Sl. No.	Date	Duration	Title	No. of Participants
1	08.08.15	One day	A Special Lecture on Journalism at Cross Roads by Prof. Saumendra Nath Bera, Department of Journalism and Mass Communication, Calcutta University.	25
2	17.08.15 and 18.08.15	Two Day	Two Day Documentary Film Festival organized by JMC Department, TU in collaboration with Film and Cultural Society of North East, Indira Gandhi Centre for the Arts, Indian Documentary Producers Association, and Goethe Institut.	100
3	19.08.15 and 20.08.15	Two day	Special Lectures on TV Journalism by Sri Sudipto Sengupta, Advisor and Consultant, 24 Ghanta NewsChannel, Kolkata.	30
4	23.09.15	One Day	Special Lecture on Emerging Issues of Media Laws and Ethics by Sri Debanjan Chakraborty, Director, Press Information Bureau Kolkata.	60
5	29.09.15 and 30.09.15	Two Day	Special lecture on history and development of journalism in India by Prof. K.V.Nagaraj, Mizoram University	30
6	11.03.16	One Day	Media Academia Interface was organized with all the Editors of Press and Electronic Media of Tripura.	30
7	18.03.16	One Day	Special Media Academia Interface lectureprogramme by Sri Subal Dey, Editor Syandan Patrika on the topic-“Media and Journalism as a tool in Development Communication.	25
8	08.04.16	One Day	Special Media Academia Interface lecture programme by Smt. Paromita Livingstone, Managing Editor, Dainik Sambad on the topic- “Communication and Social Media in present times.	25
9	08.04.16	One Day	Special Lecture on Communication and Rasa Theory- a Comparative Analysis by Prof. Ravi Chaturvedi, Dean School of Media Studies, Manipal University, Jaipur.	25
10	15.04.16	One day	Special Media Academia Interface lecture Programme by Sri Pradip Dutta Bhowmik, Editor, Dainik Sambad on the topic-Newspaper Management and its different issues.	25

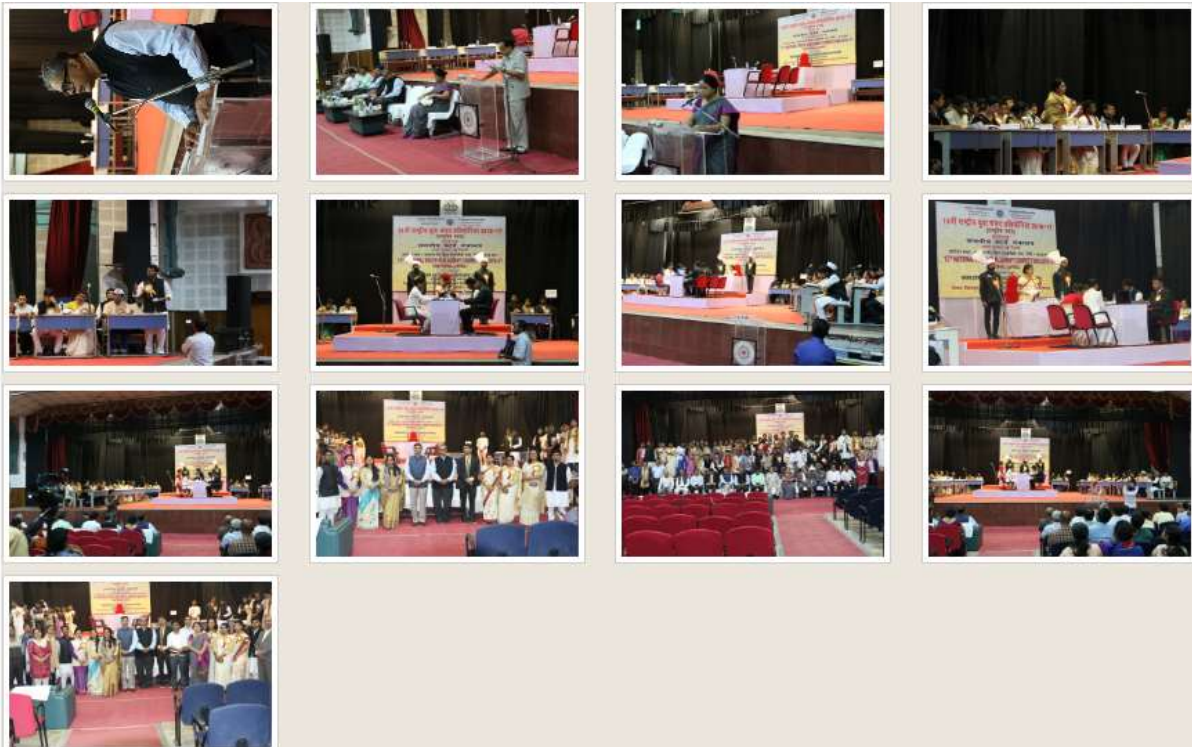
5_1 Promoting parliamentary participation for the cause of democracy and civil society-

Department of Political Science, students of Tripura University have successfully made a mark in participating in Youth Parliament

13TH NATIONAL YOUTH PARLIAMENT COMPETITION 2016 17 HELD ON 1ST SEPTEMBER 2016



13TH NATIONAL YOUTH PARLIAMENT COMPETITION 2016 17



Tripura University to receive Merit Trophy in the 13th National Youth Parliament Competition 2016-17 for Universities/Colleges. Tripura University will receive the Merit Trophy for emerging as a group champion in the 13th National Youth Parliament Competition 2016-17 organized by the Ministry of Parliamentary Affairs, Govt. of India, New Delhi. Program Coordinator Biplab Debnath as well 07 (seven) prize winning students will receive the award on behalf of university in a prize distribution ceremony to be organized by the Ministry of Parliamentary Affairs on 20th September, 2017 at the GMC Balayogi Auditorium, Parliament Building, New Delhi. Shri S. S. Ahluwalia, Minister of State in the Ministry of Parliamentary Affairs will preside over the function and distribute the prizes. The seven prize winning students are Parijat Deb, Arijit Bhowmik and Tanmoy Debnath from the dept. of English, Susmita Bannerjee from the dept. of history, Debalina Datta from the dept. of political science, Saranaya Saha from the dept. of economics and Trishna Roy from the dept. of Hindi. Tripura University's performance was held on 15th February, 2017 at the University Campus. Shri Rajiv Yadav, Secretary, Ministry of Parliamentary Affairs, Shri R. C. Mohanty, Deputy Secretary, Ministry of Parliamentary Affairs, Shri Rajan, Under Secretary, Ministry of Parliamentary Affairs, Shri Bratin Sen Gupta, Ex-MP, Rajya Sabha and Prof. Gautam Basu, Hon'ble Vice Chancellor, Maharaja Bir Bikram University, Agartala were present in the occasion as judges and selected the prize winning students. A total of 55 universities/colleges participated in the 13th National Youth Parliament Competition from across the country out of which DAV College, Jalandar, Dr. Ambedkar Law University Chennai, Dayalbagh Education Institute, Agra, Maharaja Agrasen College, Delhi, Tripura University, Agartala and Devi Ahilya Viswavidyalaya, Indore were the seven institutes which were selected to receive the Merit Trophy in the prize distribution ceremony. Jadavpur University, Kolkata emerged as a champion and will receive the running parliamentary shield in the prize distribution ceremony.