The Annual Quality Assurance Report (AQAR) of the IQAC

As per notification all NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. *(The AQAR period is for the Academic Year 2016-2017)*

Part – A

1. Details of the Institution

1.1 Name of the Institution

Tripura University

1.2 Address Line 1

Suryamaninagar

Address Line 2

Tripura (W)

City/Town

Agartala

State

Tripura

Pin Code

799 022

Institution e-mail address

registrar@tripurauniv.in

Contact Nos.

0381-2379001

Name of the Head of the Institution:

Prof. A. K. Ghosh

Tel. No. with STD Code:

0381-2379001

Mobile:

9436122176

Name of the IQAC Co-ordinator:

Professor S Banik

Mobile:

9774061712

IQAC e-mail address:

director_iqac@tripurauniv.in

1.3 **NAAC Track ID** *(For ex. MHCOGN 18879)*

TRUNGN10060

1.4 **NAAC Executive Committee No. & Date:**

Not Available in the Certificate

However the reference number of your forwarding letter of the accreditation is Ref.No.NAAC/DO/Certi/A&A/2003/4387.

1.5 Website address:

www.tripurauniv.in

Web-link of the AQAR:

http://www.tripurauniv.in/aqar

For ex. http://www.ladykeanecollege.edu.in/AQAR2012-13.doc

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	C+		2002	2002-2007
2	2nd Cycle	B	2.63	2014	2015-2020
3	3rd Cycle				
4	4th Cycle				

1.7 Date of Establishment of IQAC :   DD/MM/YYYY   24/11/2010

1.8 AQAR for the year *(for example 2010-11)*   2016-2017

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((*for example AQAR 2010-11submitted to NAAC on 12-10-2011)*

   i.   AQAR____2014-2015_____ _____   16.02.2018
  ii..AQAR_____2015-2016_____ _____   16.02.2018

1.10 Institutional Status

University   State [ ]   Central [✓]   Deemed [ ]   Private [ ]

Affiliated College   Yes [ ]   No [ ]

Constituent College   Yes [ ]   No [ ]

Autonomous college of UGC   Yes [ ]   No [ ]

Regulatory Agency approved Institution   Yes [ ]   No [ ]

  (eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution   Co-education [✓]   Men [ ]   Women [ ]

                 Urban [ ]   Rural [✓]   Tribal [ ]

Financial Status   Grant-in-aid [ ]   UGC 2(f) [ ]   UGC 12B [✓]

          Grant-in-aid + Self Financing [ ]   Totally Self-financing [ ]

1.11 Type of Faculty/Programme

Arts [✓] Science [✓] Commerce [✓] Law [✓] PEI(Phys Edu) [✓]

TEI (Edu) [ ] Engineering [✓] HealthScience [✓] Management ✓

Others   (Specify)

| Diploma Courses in Bamboo Technology, Rubber Technology, Tribal and Ethnic Studies | [ ] |

1.12 Name of the Affiliating University *(for the Colleges)*

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc.

Autonomy by State/Central Govt. / University

> Central University

University with Potential for Excellence [ ]   UGC-CPE

DST Star Scheme [ ]   UGC-CE

UGC-Special Assistance Programme [✓]   DST-FIST [✓]

UGC-Innovative PG programmes [ ]   Any other (*Specify*) [ ]

UGC-COP Programmes [ ]

2. IQAC Composition and Activities

2.1 No. of Teachers

7

2.2 No. of Administrative/Technical staff

1

2.3 No. of students

0

2.4 No. of Management representatives

1

2.5 No. of Alumni

0

2. 6 No. of any other stakeholder and

community representatives

0

2.7 No. of Employers/ Industrialists

2

2.8 No. of other External Experts

1

2.9 Total No. of members

15

2.10 No. of IQAC meetings held

Faculty   4

2.11 No. of meetings with various stakeholders: No.   7

Non-Teaching Staff Students   2   Alumni   0   Others   1

2.12 Has IQAC received any funding from UGC during the year?   Yes ☐   No ✓

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total No.   89   International   2   National   7   State   1   Institution Level   79

(ii) Theme | To enhance quality in Course curriculum and Research

2.14 Significant Activities and contributions made by IQAC

- Organized a large number (or the order of 100) seminar/conference and workshops
- RET scholarship implemented
- Coursework activity started in Ph. D. Programme
- All faculty members have been given computers
- Partial computerization of examination process has been done
- Most of the Vacancies in the post of Assistant Professor have been filled up
- Started Integrated Master Degree courses in five subjects
- Optical Fibre based campus network in addition to NKN connectivity have been achieve
- LCD projectors, computers, laptops and other teaching aids were provided to enhance technology enabled teaching-learning process

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
• To increase linkage with research institutes in a large scale. • Formation of various committees • To organize larger number of seminar conference related to research work. • Computerisation of exam system	Communication skill in every respect—academic and social, Adoptability to socio-environmental conditions. Organizational skill ,Commitment to nation building ,Leadership activity. The course curriculum is of international level, The examination system is more transparent and result is published within a week of the completion of examination in PG department , A significant number of teachers are now computer oriented using computers for their regular activity and research and teachers are now more communicative.

Attach the Academic Calendar of the year as Annexure.

2.15 Whether the AQAR was placed in statutory body   Yes ✓   No ☐

Management ✓   Syndicate ☐   Any other body ☐

Provide the details of the action taken

The AQAR was submitted to the authority after its discussion among the members of IQAC. Various members suggested necessary correction and addition .

The authority circulated the report among the faculty members and students and conducted workshop to discuss how to implement the suggestions provided in the AQAR.

<div align="center">

Part – B

</div>

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	35	2	---	---
PG	39	1	---	----
UG	4	1(BLIS)	----	----
PG Diploma	5	2	----	-----
Advanced Diploma	--	---	----	----
Diploma	--	---	----	----
Certificate	1	---	----	----
Others(Professional Courses including MTech & MD, MS etc)	5	3	-----	-----
Total	84	9		

Interdisciplinary	--	---	---	---
Innovative	--	---	---	---

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options: CORE
     (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	91(PG & Diploma & Professional)
Trimester	Does not exist
Annual	45(UG)

1.3 Feedback from stakeholders*   Alumni ☐   Parents ☐   Employers ☐   Students ✔
    (On all aspects)
        Mode of feedback   :   Online ☐   Manual ✔   Co-operating schools (for PEI) ☐

*Please provide an analysis of the feedback in the Annexure

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

> Yes
>
> Syllabi was upgraded in technical courses .The syllabi of Technical Department were modified on the basis of actual need in daily life, global technological development and following the new software available in the market.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

> No, new departments did not come up during this period

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of
permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
171	137	28	6	

2.2 No. of permanent faculty with Ph.D.

134

2.3 No. of Faculty Positions
Recruited (R) and Vacant (V)
during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
20	26	1	41	0	40	-	-	-	-

2.4 No. of Guest and Visiting faculty and Temporary faculty

98   57   155

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	2	117	-
Presented papers	2	101	-
Resource Persons	-	-	-

2.6 Innovative processes adopted by the institution in Teaching and Learning:

Relative Industry Experience:. The syllabus framed includes all the components that are needful for the students to acquaint them with the things they need to know in order to join the relative industry.

Varied Stakeholders: The curriculum is primarily designed to orient students towards employability by varied stake holders viz., Industries, Govt. agencies, banking sector, major agro based industries, insurance sector, etc.

Practical Training: The curriculum design ensures equal proportion of hands on practical training for skill Acquirement & sound theoretical knowledge base.

Field Exposure: To impart exposure to field oriented problem/solving ability to students, certain practice oriented courses are encompassed in the curriculum of Science, Engineering, and few social science subjects such as Rural Management, etc.

In-Plant Training: Students of technical and management courses undertake in-plant or service related in-house training and students of Arts and Science Faculties are exposed to various exposures & camps

Research Project: A few action research projects have also been taken up by University where innovations are used in experimental phase and modified according to necessity.

Special invited Lectures are organized by the departments where officers and knowledgeable persons of the related industries and organizations are invited to share their experiences and learning with the students. Few government agencies has also been introduced to deliver lecture about their department such as Animal Husbandry, Forestry, Agriculture and Development etc..

C**onsultancy of various industries** and knowledgeable persons of the relative subjects several value added courses have been introduced in the university in order to polish the capability of the students. Such as Tribal and Ethnic Studies, Rural Management and Development faculties and students are closely associated with different reputed civil societies to get input in their curriculum.

Technical seminars on the subjects concerned are organized with industry participation in it. The seminars give scopes to the students to interact with the industrial personalities having knowledge of the relative subjects.

Soft skill development workshops are organized with professionals from outside the university. This offers the students a scope to improve their soft-skill under the guidance of professionals.

University has initiated process of promoting use e-resources among the students. Computer facilities have been upgraded in the Library, Computer Centre and Girls and Boys hostels so that the students can access websites containing e-learning resources. University has promoted e-learning by upgrading computer facilities in the Library, Computer Centre and Girls and Boys hostels so that the students can access websites containing e-learning resources. Following are the facilities available for virtual learning:

Remedial English classes for students are held every morning before the departmental classes start. Under patronage of Honorable VC, Teachers of different departments are teaching the classes under coordination of Equal opportunity cell.

The Central Library of Tripura University has access to various scientific journals and articles published by reputed national and international publishers through UGC-INFONET E-Journal program provided by INFLIBNET Centre, Ahmedabad, India. Teachers and Research scholars of University make best use of this.

2.7 Total No. of actual teaching days
     during this academic year

241

2.8 Examination/ Evaluation Reforms initiated by
     the Institution (for example: Open Book Examination, Bar Coding,
     Double Valuation, Photocopy, Online Multiple Choice Questions)

As an experimental phase few department such as Directorate of distance education have introduced OMR system of examination for 50% of total marks.
In regular courses, MCQ pattern with use of OMR Sheet has been introduced in some papers common to all kinds of program.

2.9 No. of faculty members involved in curriculum
     restructuring/revision/syllabus development
     as member of Board of Study/Faculty/Curriculum Development workshop

| 100% | 100% | 100% |

2.10 Average percentage of attendance of students

87%

2.11 Course/Programme wise
     distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
UG(including distance mode)	25219	--				67.82
PG(including distance mode)	3863	--				87.34

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

Monitoring collects monthly report on syllabi coverage by faculty members, constituted a team to identify the infrastructure limitations in various laboratories. Collects by monthly report of student attendance. Monitors the periodically conducted examinations in various departments.

Evaluations are done on the basis of marks awarded in conventional method. The attendance is also considered as a parameter to evaluate a student.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	*Number of faculty benefitted*
Refresher courses	56
UGC – Faculty Improvement Programme	42
HRD Programmes	-
Orientation Programmes	-
Faculty exchange programme	-
Staff training conducted by the university	35
Staff training conducted by other institutions	-
Summer / Winter schools, Workshops, etc.	431
Others	-

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff				
Technical Staff				
Total	209	45	59	98

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

Research activities were always given high priority in the university but got its real momentum after its up gradation as Central University. University is always motivating and providing different facilities to the faculties and scholars to enhance their research activities. In recent time, authority has extended various essential support systems for smooth conducting of research activities for the faculties as well as students in different departments. Few are as follows -

- ¾ Extension of Facility of Communication Network to all individual teachers.
- ¾ A grant of Rs 50000/- per year to all individual teachers for professional membership, participation & presentation of research papers, purchasing necessary materials etc.
- ¾ Providing internet facility to the out-campus faculty members and 24 hours internet facilities to in-campus faculties.
- ¾ Monitoring the scholars' activity time to time by the Dean's committee.
- ¾ The digitalisation of the well stocked Central Library, easy access to e-books and journals in every discipline.
- ¾ Respective department pursue the research proposal through board of Post Graduate Studies (BPGS), Board of Faculty and academic council. The names of external experts for the research activity are approved in the BPGS meeting. The Head of the department acts as the Chairman of the BPGS Committee. Dean acts as a member and 3 experts also represent from different institutions outside the University.

A **Research and Innovation Cell** has been formed in the University to facilitate the smooth implementation of research schemes / projects. The responsibilities of the cell are as follows-

- ¾ Approving proposals to carry over the project (No Objection) for sponsored research on the behalf of the University, unless otherwise expressly delegated;
- ¾ The University promotes interdisciplinary research by allowing the faculties to formulate interdisciplinary research proposal from among its different departments/ faculties/institutions. Further it allows students to take up Ph.D. research in interdisciplinary research topics. The seminar, symposium and workshops organized by every department attract active scientists from other departments' and makes initiative to spark out with research collaborations. The university initiated a number of interdisciplinary research programs like Physics–and-chemistry, CSE-EE-Physics, MRMD-Economics-Commerce.

Fulltime and part time teachers in the affiliated colleges are allowed to pursue Ph.D. in Tripura University. At the same time faculty members in the colleges with Ph.D. and research experience are also appointed research co-supervisors with due approval from the University authority.

Tripura University adopt the general guidelines framed by UGC regarding promotion of research activities among faculties and scholars.

The University grants sabbatical leave for professors who have completed six years of service to take up research in another institution (within India or abroad) or to engage in book writing. The faculty members have to submit a report after availing themselves of sabbatical leave. During the period of assessment four Professors availed the facility. Around 5% faculties have utilized the sabbatical leave for pursuit of higher research in premier institutions within the country. Study leave is granted for a period of not more than two years. The absence on study leave counts for service benefits. Three Assistant Professors were permitted to avail of study leave.

Faculty members are encouraged to attend seminars and conferences, within the country, or abroad, and are readily sanctioned on duty leave for the purpose. The University also meets50% of the expenses related to participation in conferences/seminars per UGC norms

Apart from the grants received from funding agencies, scholarships and endowment for student research the University allocates funding for doing research through the research courses in Ph.D. programmes. Research students are given monthly stipend. The University is providing financial assistance to maintain the laboratory facilities like equipments, Chemicals, Books and Journals in Library and Computer Software for data analysis.

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	82	28	
Outlay in Rs. Lakhs	39.39	355.0	801.53	

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number			-	-
Outlay in Rs. Lakhs			-	-

3.4   Details on research publications

	International	National	Others
Peer Review Journals	171	118	
Non-Peer Review Journals	3	10	
e-Journals	9	-	
Conference proceedings	-	5	

3.5 Details on Impact factor of publications:

Impact factor

Range Nil -5.20   Average 2.19   h-index (Average in three years) 38 Nos. in SCOPUS 82

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned Rs in lac	Received Rs in lac
Major projects	3-5 Yr	**GOI**: CSIR, DST, DBT. ICSSR, ISRO,ICHR, DE&IT, IISWBM, MTW, MOE&F. **GOT**: NHM, MGNREGA	271.26	269.21
Minor Projects	NIL	NIL	NIL	NIL
Interdisciplinary Projects	NIL	NIL	NIL	NIL
Industry sponsored	NIL	NIL	NIL	NIL
Projects sponsored by the University/ College	NIL	NIL	NIL	NIL
Students research projects *(other than compulsory by the University)*	NIL	NIL	NIL	NIL
Any other(Specify)	NIL	NIL	NIL	NIL
Total	-	-	271.26	269.21

3.7 No. of books published   i) With ISBN No.   27   Chapters in Edited Books   59

ii) Without ISBN No.   20

3.8 No. of University Departments receiving funds from

UGC-SAP   1   CAS   DST-FIST   2

DPE   DBT Scheme/funds   2

3.9 For colleges   Autonomy   CPE   DBT Star Scheme

INSPIRE   CE   Any Other (specify)

3.10 Revenue generated through consultancy   Nil

3.11 No. of conferences o r g a n i z e d by the Institution

Level	International	National	State	University	College
Number	-	-	-	-	**-**
Sponsoring agencies	-	-	-	-	**-**

3.12 No. of faculty served as experts, chairpersons or resource persons   70

3.13 No. of collaborations   International   7   National   20   Any other   50

3.14 No. of linkages created during this year   41

3.15 Total budget for research for current year in lakhs :
From Funding agency   449 Lakh   From Management of University/College   275 Lakh

Total   724 Lakh

3.16 No. of patents received this year: NIL

Type of Patent		Number
National	Applied	
	Granted	
International	Applied	
	Granted	
Commercialized	Applied	
	Granted	

3.17 No. of research awards/ recognitions   received by faculty and research fellows
     Of the institute in the year

Total	International	National	State	University	Dist	College
09	-	1	-	8	-	-

3.18 No. of faculty from the Institution
     who are Ph. D. Guides
     and students registered under them

134

68

3.19 No. of Ph.D. awarded by faculty from the Institution

44

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF | 28 | SRF | 4 | Project Fellows | 50 | Any other | PDF, RA, DST-WS, RET = 33 |

3.21 No. of students Participated in NSS events:

University level | 129 | State level | 32 |

National level | 01 | International level | --

3.22 No. of students participated in NCC events: Nil

University level | ☐ | State level | ☐
National level | ☐ | International level | ☐

3.23 No. of Awards won in NSS: Nil

University level | ☐ | State level | ☐
National level | ☐ | International level | ☐

3.24 No. of Awards won in NCC: -- Nil

University level | - | State level | -
National level | - | International level | -

3.25 No. of Extension activities organized

University Forum | 3 | College Forum | --
NCC | ☐ | NSS | 5 | Any Other | ☐

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

The University has organized several workshops / training programmes / sensitization over the years to motivate and inculcate research aptitude amongst its staff and students. These programmes include Research methodology Workshops, training programmes for instrumentation and software skill, sensitization programmes for current global trends in research. Occurrences of these programmes were more often in the faculties like Engineering and technology,   Science..   Details   of   these   programmes   conducted   are   tabulated   faculty-wise:

Seminar/Confe-rence/workshops	Organized by	Source of funding	National/International	Details of Outstanding Participants
16.1.2017-20.1.2017 Workshop on Preventive Conservation of Manuscript	Department of History	National Manuscript Mission, New Delhi	National	1. Sri. P. Perumal, Thanjavore, Saraswati Mohan Library. 2. Prof. Damburdhar Nath, Deptt. Of History, Dibrugarh University. 3. Sri. Bivash Kumar, Patna Museum.
22.11.2016-23.11.2017 Workshop on Home automation	Dept. of Electrical Engineering	Tripura University	National	
28.09.2016-29.09.2016 Workshop on Web design	Dept. of Information Technology	Tripura University	National	

The University is located in a rural place and has to play a moral role in the social upliftment of this area involving faculty members and students in the following manner:

- Students are motivated to join in NSS & NCC programme.
- The NSS units periodically organisation programmes like blood donation camp, road safety awareness, drug abuses, disaster risk reduction, etc.
- Department of Business Administration organise programmes to motivate budding Entrepreneurs in small scale businesses.
- The MRMD students are involved in extension activities during their final year. They have to stay in villages and interact with farming community to get sensitized to prospects and problems in farming. Faculty members visit these villages and provide technical advises to students and farming community.

World Population Day, International Women's Day, etc. are celebrated to create awareness on social causes.

- Organization of hand to hand training programmes for farmers and Self Help Groups (SHG) members on various subject matter areas.
- Workshops on Free and open Source Software-Linux, php has been conducted at Tripura University in collaboration with Spoken tutorials project, IIT Bombay.
- As per MOU signed between TU and Tata Consultancy Services – iON project Computer based all -India examinations (IBPS Banking, GATE) are being conducted regularly at Tripura University, Department of Information Technology laboratories.

Criterion – IV
4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	75 acres	-	UGC	75 Acres
Class rooms	90	0	UGC	90
Laboratories	41	2	UGC	43
Seminar Halls	08	02	UGC	10
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	61	24	UGC	85
Value of the equipment purchased during the year (Rs. in Lakhs)	328.69	151.512	UGC	480.202
Others	--	--	--	--

4.2 Computerization of administration and library

Tripura University has a Central library which is being enriched with l a t e s t computer system. The Computer Centres are made accessible to all the students, research scholars and faculties during the working hours of the University for greater utilization. Internet facilities are available in the Library, all Departments, Centres, Offices, Hostels and Staff quarters 24x7 as well. High capacity central UPS are being installed in several Departments and Offices in order to providing back-up to the computer system during the period of power failure.

The University has a comprehensive IT policy with regard to the followings:
i) IT Service Management: Tripura University has central computer centre with following officers for IT service management: a) Sr. System Analyst equivalent to Dy. Registrar b)System Analyst equivalent to Assistant Registrar.
ii) Network security: Now proxy server has been installed .To increase security MAC address registration and fire wall installation in the network is under process.
iii) Software asset management: Software's are distributed from central point.
iv) **Open Source Resources:** Linux& Ubuntu platform is introduced as much as possible. Workshops are conducted to popularise open source resource.

Details of the University's Computing Facilities (Hardware and Software)
Tripura University has computer facilities. The detail of the facilities available in Computer laboratories and University Computer Centres have been furnished below:
1(a) Server (Make HP, Model ML350P) – 4 nos.
Configuration : Intel Xeon E5-2640 (2.5 Ghz/6-code/7.2 GT-S QPI/95W, DDR3-1333, HT), Intel C600 Chipset, 32GB DDR-3 RAM, 2 600 GB Hard Disk. Operating System : Windows Server Standard 2012 & Linux 6.3
(b) Server (Make HP, Model DL580) – 1 no.
Configuration : Quad-Code Intel Xeon 7340 (2.4 Ghz), 8GB DDR-3 RAM, 2 X 60 GB Hard Disk. Operating System : Windows Server Standard 2008.
Configuration : Intel Core i5 2400 (3.1 GHz, 3 MB L3 Cache), 4GB DDR3 RAM, 300 GB SATA Hard Disk. 17 inch TFT monitor. Operating System : Windows-7.
 (c) Desktop Computer (Make : HP, Model Hp Compaq dc 7900):310 nos.
Configuration : Intel Core 2 Due E8400 (3.1 GHz, 3 MB L3 Cache). Intel Q45 Express chipset., 3GB DDR3 Ram, 250 GB SATA Hard Disk.17 inch TFT monitor. Operating System: Windows- XP
 (d) Desktop Computer (Make : HP, Model DX-2480) 5 nos.
Configuration : Intel Core 2 Due (2.8 GHz, 3 MB L3 Cache). Intel chipset., 1 GB DDR2 RAM, 160 GB SATA Hard Disk. 17 inch TFT monitor. Operating System : Windows-Vista.
(e) Desktop Computer (Make : ZENITH)   135 nos.
Configuration : Intel Pentium(2.8 GHz, 256MB RAM/512MB, 80 GB/50GB Hard Disk, Operating System : Windows-XP.
 (f) Laptop Computer (Make : Zenith) 15 nos.
Configuration : Intel Pentium(1.7 GHz) Intel 910 GML Chipset, 240MB RAM, 80 GB Hard Disk, Operating System : W2.
(g) Desktop Computer (Make : Lenovo, Model M92P Think Centre Tower) 34 nos.
Configuration : Intel Core 1.5 4350 (3.1 GHz, 6 MB L3 Cache). Intel Q77 Express chipset., 4 GB DDR3 RAM, 500 GB SATA Hard Disk. 18.5 inch TFT monitor. Operating System : Windows-7.
 (h) Desktop Computer (Make : DELL, Model Optiplex-990) 130 nos.
Configuration : Intel Core i5 2400 (3.1 GHz, 3 MB L3 Cache), 4GB DDR3 RAM, 300 GB SATA Hard Disk. 17 inch TFT monitor. Operating System : Windows-7. Windows-XP.
3. (a) Laptop Computer (Make : Lenovo, Model L430 Thinkpad): 52 = 58 nos.
Configuration : Intel Core i7-3520M (2.90 GHz, (3.1 GHz, 4 MB L3 Cache). HM76 chipset., 8 GB DDR3 RAM, 500 GB SATA Hard Disk. Operating System : Windows-8.
(b) Laptop Computer (Make : Dell, Model- 2620M) 06 nos.
Configuration : Intel Core i7-2620M (2.& GHz) Intel C200 Series Chipset, 2 GB RAM, 300 GB Hard Disk, Operating System : Windows-7.

Number of Nodes/ Computers with Internet Facility

The University provides ample computer facilities to its students and faculties. Approximately 350 computers have been provided with Internet facilities.

Institutional Strategies for the Improvement of IT and Associated Infrastructure

Tripura University has its own IT and associated infrastructural facility, both for faculty and student community. However, as information technology is fast developing, University has its plan to upgrade the IT and related infrastructural facilities such as incorporation of the entire University campus under Wi-Fi facility, expansion and maintenance of the University Computer Centres, provisioning of various software to support research and teaching etc.

Details on Access to On-line Resources and Information Database for Academic Improvement

Access to Google apps, google docs is provided through Tripura University website to store lessons for online access by students.

New Technologies for Enhancing Student Learning and Evaluation

The university takes ample care to address issues such as authenticity and copyright with regard to online resources that lie outside the university. Online resources are accessed through University static public IP. Steps are being taken to introduce access to the University

Availability, Maintenance and Enhancement of IT Facilities for Individual Teachers and for Classroom

New technologies have been deployed by the university in enhancing student learning and evaluation during the last four years to meet new / future challenges. On line access is given through user id and password authentication. Access to e-books and e-journals are possible through University proxy-server which can be used by authorised user after login authentication. In order to make the IT facilities available to individual teachers for effective teaching and quality research, each faculty member is provided with one desktop computer with Internet connection.

Dedicated Computing Facilities and LAN Facility

The University offers dedicated computing facilities through two Computer Centres located at two different locations within the University campus for easy access. Campus LAN is built using optical fibre.

Number of Nodes/ Computers with Internet Facility

The University provides ample computer facilities to its students and faculties. Approximately 250 computers have been provided with Internet facilities.

Details on Access to On-line Resources and Information Database for Academic Improvement

Access to Google apps, google docs is provided through Tripura University website to store lessons for online access by students.

4.3.Library services

	Existing		Newly added		Total	
	No.	Value Rs in lac	No.	Value Rs in lac	No.	Value Rs in lac
Text Books(Including Reference Books)	125541	--	9718	--	135259	-----
Reference Books	---	----	---	-----	-----	-----
e-Books	30907	--	0	--	30907	-----
Journals	42	--	24	--	66	-----
e-Journals(through INFILAB eShodhSindhu Consortia)	----	----	More than 8000	-----	More than 8000	----
Digital Database	0	----	Packages from 12 Publishers	-----	12 Publishers	----
CD & Video	997	--	200	--	1197	-----
Others (specify)	0	--	9	--	9	-----
Newspaper (Local & National)	0	--	16	--	16	-----

4.4 Technology up gradation (overall)

	Computers	Computer Labs	Internet User	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	671			0	95	122	306	90
Added	153			20	29	42	52	10
Obsolete	61		763	0	17	15	25	4
Total	763			20	107	149	335	96

4.5 Computer, Internet access, training to teachers and students and any other programme for technology up gradation (Networking, e-Governance etc.)

The University offers dedicated computing facilities to teachers, scholars and students through two Computer Centres located at two different locations within the University campus for easy access. Campus LAN is built using optical fibre.

Proprietary Software

1. Windows Server Standard 2012
2. Linux 6.3 Server
3. Windows-XP
4. Windows-7
5. Windows-8
6. MS-Office-2007
7. MS-Office-2013
8. Visual Studies-6.5
9. SPSS
10. MAT Lab
11. Oracle-7i
12. SQL Server-2005

Tripura University has its own IT and associated infrastructural facility, both for faculty and student community. The University provides ample computer facilities to its students and faculties.

Approximately 250 computers have been provided with Internet facilities.

Access to Google apps, google docs is provided through Tripura University website to store lessons for online access by students.

The university takes ample care to address issues such as authenticity and copyright with regard to online resources that lie outside the university. Online resources are accessed through University static public IP. Steps are being taken to introduce access to the University

On line access is given through user id and password authentication. Access to e-books and e-journals are possible through University proxy-server which can be used by authorised user after login authentication. In order to make the IT facilities available to individual teachers for effective teaching and quality research, each faculty member is provided with one desktop computer with Internet connection. In each building of University one e-class room with video conferencing facility is proposed to enhance the quality of teaching and learning. Workshops are conducted on Use of ICT for teachers in preparation of e-learning material.

The University provides IT support to both faculty staffs. Accessories are maintained through AMC and computers are also maintained through on service/AMC.

The National Knowledge Network connectivity (1 GBPS) availed in our university and this facility is used for campus Internet facility.

Web resources such as Wikipedia, dictionary and other education enhancing resources are not available in the university

Plans have been envisioned for the gradual transfer of teaching and learning from closed university information network to open environment. The access to IT resources made for students exposes them to outside information and environment. Field exposure through the department of Geography, MRMD and visit to Research institutes through educational tours provide students practical knowledge on the latest technologies developed and the latest avenues for their career development.

For teachers, the university also arranges training on open source software in the computer centre,

SAKHSHAM program in collaboration with Microsoft, Computer based Spoken tutorial in collaboration with IIT, Bombay

4.6 Amount spent on maintenance in lakhs :

  i)   ICT

-

  ii) Campus Infrastructure and facilities

195.90 lac

  iii) Equipments

79.45 lac

  iv) Others

-

  Total :

275.35 lac

Criterion – V
5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

Tripura University continues its tradition to provide academically sound and rewarding environment to the students with motivated and inspiring faculty and considers students support as an essential and most important component of its functioning. In this connection, earnest efforts are made to ensure that the students progress and achieve their optimum potential by utilizing the various facilities provided to them. The only means of student monitoring and support is the academic process that extends from the PG course to PhD research and various projects. In the case of PG courses, the departmental faculty tries to ensure personal guidance through mentoring and support for assignments, term paper preparations as well as seminar presentations.

 Apart from classroom interaction, students are encouraged to meet faculty members and consult them on any academic matter such as term paper, assignment, seminar presentations, projects etc. Since the development of the students is a priority, no stones are left unturned to do so. The students are also counselled for mitigating any threat perception from any quarter.

The university provides a range of support services to give students the knowledge and skills they need to be effective learners and contributing members of the community. The team works in collaboration with the entire university community and are committed to the education and emotional development of all students. Services provided by counsellors address academic, personal/social, and career and post-secondary development.

The Guidance & Counselling cell, while working to the university's Mission Statement, has a role in helping students make informed personal, educational and career decisions, set realistic personal and career goals and develop the skills necessary to accomplish these goals. The service also offers students support in coping with personal problems or academic concerns.

The Placement Cell of the University has been very active and successful in organizing various on campus placement in renowned organizations. Some companies visited the college for campus interviews. The local ILS Hospital recruited a number students through campus interview. The NIC also recruited a good number of IT students in various computer oriented project.

5.2 Efforts made by the institution for tracking the progression

- Monitoring the scholars' activity time to time by the Dean's committee
- Submission of publication information time to time
- Suggestion by the IQAC to the Departments to hold seminar/conference frequently
- To involve the final semester students in workshops/seminar/conferences
- To introduce more teaching aids to improve the teaching-learning process and encourage innovative practices.
- To organize more seminars, workshops etc. to spread awareness on academic and social activities
- Head of the Departments are to submit monthly reports regarding the coverage of syllabus
- Bimonthly attendance of the students are obtained
- New publications by any teacher is to be reported to IQAC
- Teachers are to intimate to IQAC regarding their publication of books
- Detailed report of seminar/conference/workshop organised by the departments are to be submitted to IQAC
- Attendance/presentation of papers in seminar/conference are to be reported to IQAC

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
129	2594	353	

(b) No. of students outside the state

63

(c) No. of international students

6

Men
No	%
1332	51

Women
No	%
1297	49

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total

859	434	595	349	14	2251	934	440	874	335	11	2594

Demand ratio = 1:6   Dropout % : 8

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

Students are guided by necessary information, class room training, job-oriented training and placement etc. During their stay, students can avail of support services like library, computer facility, internet, hostel, remedial classes for upgrading language, sports and various other cultural activities.

Earnest efforts are made to ensure that the students progress and achieve their optimum potential by utilizing the various facilities provided to them. In the case of PG courses, the departmental faculty tries to ensure personal guidance through mentoring and support for assignments, term paper preparations as well as seminar presentations.

 Apart from classroom interaction, students are encouraged to meet faculty members and consult them on any academic matter such as term paper, assignment, seminar presentations, projects etc. Since the development of the students is a priority, no stones are left unturned to do so.

The university offers a number of student support services. These include information support, financial support, library, hostel accommodation, career guidance and counselling, remedial classes for improvement of English language, equal opportunity cell and avenues for sports and games.The University has a Placement Assistance Cell that takes care of all these in addition to Equal Opportunity Cell. Both these as well as the university authority as a whole organise workshops, employability Trainings etc from time to time.

The university provides all required educational information through university website (www.tripurauniv.in). Student information is updated in the university website on a regular basis.

The major student support system provided by Tripura University is the financial assistance through scholarships, merit scholarships, fee concession for SC/ST/OBC students, fellowships through various sources like UGC-CSIR, ICPR, ICSSR, ICHR etc. A special financial assistance is also given to students who attend conferences and seminars outside the state.

Faculty members encourage students to participate in various competitions/conferences in India and abroad.

Equal Opportunity Cell in collaboration with the placement Cell organizes Spoken English, Computer literacy, Elementary Mathematics and Reasoning Courses for skill development of the students.

Equal Opportunity Cell in collaboration with the Placement Cell conducts spoken English, Computer Literacy, Elementary Mathematics and Reasoning Courses for skill development of the students and to increase the performance of slow learners regularly.

Students are also given exposure to other institutions of higher learning, particularly Ph. D students.

The university conducts NET/SET Coaching classes regularly particularly for the SC/ST and OBC students. As a result of this, a sizeable number of students from the university have qualified these exams. Coaching classes for state civil service exams are also conducted regularly and it has a satisfactory success rate. Academic counsellors of different disciplines take extra care of the students in their preparations and   reading materials   through   its   library.

No. of students beneficiaries   80

5.5 No. of students qualified in these examinations

NET   0   SET/SLET   48   GATE   0   CAT   -

IAS/IPS etc   -   State PSC   0   UPSC   -   Others   62

5.6 Details of student counselling and career guidance

The counselling unit in the University, performs its activity under the leadership of Dean of Students' Welfare, in a regular/periodic manner. At the beginning of the academic session, the Dean of Students' Welfare visits each department with a team to interact with the students and make them aware of the presence of the counselling facilities.

The university provides a range of support services to give students the knowledge and skills they need to be effective learners and contributing members of the community. The team works in collaboration with the entire university community and are committed to the education and emotional development of all students. Services provided by counsellors address academic, personal/social, and career and post-secondary development.

The university offer a wide range of educational programs to support the academic needs every student. These include special education programs for gifted and talented students, instruction for English Language Learners, and Multiple Pathways for struggling high school student.

The Guidance & Counselling cell, while working to the university's Mission Statement, has a role in helping students make informed personal, educational and career decisions, set realistic personal and career goals and develop the skills necessary to accomplish these goals. The service also offers students support in coping with personal problems or academic concerns. The cell also provides an "Open Door" policy to students, parents and teachers. All students are informed of the service provided at the beginning of each year and are encouraged to avail of it. All Leaving Certificate students can avail of the support the Counselling cell.

The Placement Cell of the University has been very active and successful in organizing various on campus placement in renowned organizations. Some companies visited the college for campus interviews. The local ILS Hospital recruited a number students through campus interview. The NIC also recruited a good number of IT students in various computer oriented project. Prior to a campus interview, the placement cell circulates notice to relevant departments. Interested students report to the placement cell in due time. In addition to on campus placements, the placement cell also help the students to obtain suitable placements in various renowned organizations

Through research the University is generating scholars who are having expertise in the respective fields . These scholars are getting job of faculty members in different Universities on getting job of scientists in different research institutions. Every year some Ph.D. scholars are securing doctoral fellowship in different countries. The opportunities of these scholars in college level teaching is almost an automatic process.

No. of students benefitted   108

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
6	60	35	314

5.8 Details of gender sensitization programmes

The Women's Studies Centre, Tripura University is a UGC sponsored Centre *under Tripura University, established in 2011 dedicated exclusively to* carry out research studies and advocacy on women's issues. Since 2006 the Women's Study Cell functioning under the auspices of Tripura University, engaged in running those activities is now empowered in order to act as full-fledged research Centre.

The Women's Studies conducted a number of awareness programmes with the following aims:

1. To assess women's contribution to the social processes.

2.To identify the daily tasks of men and women in low-income household of the project area.

3. To raise awareness of men and women's workloads.

4. To realise and examine the multiple roles of women
   Health related program at different periods were carried out
   by the University.

5.9 Students Activities

5.9.1   No. of students participated in Sports, Games and other events

State/ University level | 53 | National level | 4 | International level | 1 |

No. of students participated in cultural events

| 100 | | nil | | nil |

State/ University level   National level   International level

5.9.2   No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level | 8 | National level | nil | International level | nil |

Cultural: State/ University level | 10 | National level | nil | International level | nil |

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	55 (RET Scholar)	4.40 Lac
Financial support from government	115	10.20 Lac
Financial support from other sources	20	4.0 Lac
Number of students who received International/ National recognitions	78	

5.11   Student organised / initiatives

Fairs   : State/ University level | Nil | National level | Nil | International level | Nil |

Exhibition: State/ University level | 1 | National level | Nil | International level | Nil |

5.12   No. of social initiatives undertaken by the students | 6 |

5.13 Major grievances of students (if any) redressed: NIL

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision

Tripura University shall strive towards a World Class Institution by producing professionals with high technical knowledge, professional skills and ethical values. The University shall be a preferred partner to the industry and community for its contribution towards their economic and social development by providing high quality manpower through excellence in teaching, research and consultancy. The university has a multi-prompt vision of advancing knowledge through research in parting higher education, inculcating socially relevant values with excellence in all pursuits. Tripura University shall be recognized as a point of reference, a catalyst, a facilitator, a trend setter and a leader in the educational field.

Mission

As per Tripura University act the mission of the University shall be to disseminate an advanced knowledge by providing instructional and research facilities in such branches of learning as it may deem fit ; to make provisions for integrated courses in humanities, natural and physical sciences , social sciences, forestry and other allied disciplines in the educational programmes of the University; to make special provision for studies for tribal life and culture; to take appropriate measures for promoting innovations in teaching- learning process inter-disciplinary studies and research; to educate and train manpower for the development of state of Tripura; and to pay special attention to the improvement of the social and economic conditions and welfare of the people of Tripura, their intellectual, academic and cultural development.

The University's mission is to impart quality higher education in consonance with the motto "Pursuit of Excellence". The motto is to strive to develop citizens with knowledge, skill and character leading to societal transformation and national development. It is aimed at making the students, men and women, equipped to offer their selfless service for the progress of the state and country. The University thus strives to preserve old values but at the same time interweaves modernity to meet the needs of the globalized era of higher education.

The mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution's tradition and value orientations, its vision for the future. The University, since inception is dedicated to impart knowledge to the students irrespective of castes, groups and classes and in the way trying to serve the society through making students with better character. The University offers programmes and day to day activities through which it conveys the values that are essential in the society. The University caters to the educational needs of the socially and economically weaker sections of the rural society and also imparts knowledge to the students thereby enabling them to apply their skills as a tool for enhancing their livelihoods and enriching the national resources. The vision for the future is to prepare the students to meet the global challenges and to promote skills among the students to make them self-sufficient in future.

The leadership is involved in ensuring the organization's management system development, implementation and continuous improvement. The Honourable Vice-Chancellor is the Principal Academic and Executive Officer of the University. He is assisted by the Registrar, the Controller of Examinations and Deans of the respective faculties in all academic matters. The executive council is the Principal Executive Body of the University responsible for the management and administrative powers related to revenues and property of the University. Besides, it is responsible for maintaining the guidelines related to conduct of all administrative affairs and is responsible for the improvement of the University. With the Vice Chancellor as the *ex officio* Chairman, the Executive Council consists of the members from government of Tripura, senior academicians of Tripura University and across the nation. On the other hand, the Academic Council is the Principal Academic Body of the University under the Chairmanship of the Vice-Chancellor, which is responsible for the general supervision of the academic policies taken by the University, promotes inter-faculty coordination and accountable for general functioning of the University, discipline etc. At the ground level, the deployment of the various policy directions are likely done through, Finance Committee, Boards of Faculties, Boards of Post Graduate Studies, and purchase committees and various sub committees formed from time to time by the authority. In addition, Teachers' Council, a forum of the faculty members also provides valuable suggestions to the Vice-Chancellor ensuring the University's management system development, implementation and continuous improvement.

The leadership is involved in interaction with its stake holders. The Executive Council and Academic Council are the two principal bodies comprising all the stakeholders participating as members

and are responsible for the final decision making related to the smooth functioning of the University. (through periodic meetings). Interaction of stakeholders is enhanced through series of interactive meetings with officials of Tripura Government and teachers and principals of affiliated colleges form time to time. The University maintains close links with ONGC in developing entrepreneurial skills among the students of Tripura University. The Alumni association has been formed recently which envisages to utilize the experiences of former students who are now in higher positions in public and private sectors. These processes ensure democratic functioning and involvement of its stakeholders in the decision making processes of the University at all levels.

The leadership is involved in reinforcing a culture of excellence. Following the objective of betterment of the students, the University not only emphasises on bookish knowledge development, it also encourages the improvement through various supplementary activities. Numerous short term programmes are arranged in gaining proficiency in Hindi and English languages and in basic computer skills for the training of non-teaching employees of the university. The faculty members are encouraged to participate in refresher courses, orientation programmes, research methodology workshops and other training courses to improve their quality and efficiency. Besides, the University encourages the departments both physically and financially to organize seminars, symposiums, conferences, training programmes for encouraging the culture of excellence. Further the University persuades the faculties to participate in national and international seminars, conferences and provides funds, if required for attending the same. Moreover, the University has initiated to felicitate 'Inspired Teachers' along with the teachers and nonteaching employees who have completed 25 years of service as token of recognition and gratitude at the Annual Convocation in 2013. In addition, the University Sports Board organises sports week annually to identify best sporting talent of the University and its affiliated colleges. At the same time it also participates in various national sporting events. From 2013, the cultural week has been restarted to bring into focus best cultural talents of the University and its colleges. Likewise, scholarships and stipends are also being provided to the needy students to pursue their academic carrier and fulfil their dream.

6.2 Does the Institution has a management Information System

Yes,

Details of MIS are applied to:

1. Administrative procedures including finance
2. Student admission
3. Student records
4. Evaluation and examination procedures
5. Research administration

Respective details corresponding to the serial numbers are as follows:

1. Maintenance of records in conventional form for submission to University/College/Government as and when asked for.
2. Advertisement is given in the local newspaper, TU website and University notification mention the vacancy of seats in various department, date of form distribution, last date of submission, date of entrance examination, date of results of entrance examination, date of admission with a bullet.
3. Students records are maintained in conventional files in the Academic Section
4. Exam dates are published provisionally beginning of a semester, Question setting and evaluation are done and suggested by the board of studies of the departments
5. There is a section under Controller of Examination to look after the Ph. D research . RET and course work exams are conducted by COE. A project section exists separately to look into the Research projects funded by various agencies.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

The University follows a systematic process in the design and development of the curriculum. The curriculum of the programmes offered by the institution is designed in line with the guidelines of the regulatory authorities like UGC, ICAR, DCI, AICTE, etc., which develop national level policies in the respective field of education, research and extension etc. after a detailed need-assessment survey and multidisciplinary dialogue at the national level. The developments in the disciplines concerned across the country and the changes in the policies of the government are taken into account for curriculum development process. However, the regulatory authorities offer slot for accommodating localized needs for problem solving at regional level. The university, in general, follows the following two approaches for post graduate and undergraduate curriculum respectively:

Designing of Post-graduate Curriculum takes place in the following ways:-

Keeping in view the instructions from regulatory bodies, feedback from the external subject experts, faculty members and need of present time faculty members curriculum prepared. While preparing the curriculum of a paper, faculty considers the availability of expert and other resources.

Prepared curriculum is proposed in Board of Post-graduate Studies (BPGS) of respective Departments for the consideration of the departments. The BPGS is framed with the faculty members of respective department and two subject experts of the respective subjects and also includes one industry experienced person if the subject is required so. It is formed in every department. Deliberation is made over the proposed curriculum for understanding the possible kinks.

The approved curriculum by BPGS then moves to the Academic Council for approval. The Academic Council of the University chaired by the Vice- Chancellor and represented by all Dean, Head of the Dept. Professors, Associate Professors, representatives of the University and nominated members thoroughly discuss the changes and development brought in the curriculum and ensures updated version in line with the global standards & regional relevance.

Designing of Under-graduate Curriculum

For the preparation of under-graduate curriculum, there is a Board of Under-graduate Studies (BUGS), which has been formed in most of the departments.

The research curriculum has been designed on consideration of following issues:

Relative Industry Experience: In the initial stage of the designing and updating the curriculum BPGS are formed in every department that includes the faculty members of respective department and two subject experts of the respective subjects and experienced person from the relative industry. So the syllabus thus framed includes all the components that are needful for the students to acquaint them with the things they need to know in order to join the relative industry.

Varied Stakeholders: The curriculum is primarily designed to orient students towards employability by varied stake holders viz., Industries, Govt. agencies, banking sector, major agro based industries, insurance sector, etc.

Practical Training: The curriculum design ensures equal proportion of hands on practical training for skill Acquirement & sound theoretical knowledge base. The students are given enough opportunities to interact with the practical field through placements in govt. and private sector as a part of course curriculum. And also sufficient theory classes are given for enhancing their theoretical knowledge.

Field Exposure: To impart exposure to field oriented problem/solving ability to students, certain practice oriented courses are encompassed in the curriculum of Science, Engineering, and few social science subjects such as Rural Management, etc.

In-Plant Training: Students of technical and management courses undertake in-plant or service related in-house training and students of Arts and Science Faculties are exposed to various exposures & camps. This approach give students hands on training, updated knowledge, managerial skill, practical exposure and multitasking ability in the fields of expertise concerned.

6.3.2 Teaching and Learning

University with its motto 'pursuit of excellence' encourages teachers to be innovative and creative following strategies have been formulated:

- The institution also recognises such innovative teaching by selecting 'Inspired Teachers' who are awarded at the time of convocation by the Chief Guest. In the last convocation the inspired teachers were awarded by the Honourable President of India.

- Teachers in the department provide counselling and help to the students as and when required. Students can also approach Dean, Students' welfare regarding issues connected with their academic and for psycho social guidance. A counsellor has been engaged by the University on a contractual basis.

- Faculty members continuously update themselves with the recent developments in research in their respective fields and adopt these in the teaching and research. They also use innovative teaching approaches and methods to make the classroom interactions more dialogical.

- The University encourages creativity and scientific temper among the learners by creating a conducive environment for free thinking and sharing of ideas.

- Project works are mandatory in technical and professional courses. These are undertaken under the guidance of faculty members. In MRMD, Management, Engineering, Information Technology, Geography etc. student projects are mandatory. 10% programs in the University are compulsorily undertaking the student project. University is envisaging to associate with external institutions for students project work. MRMD students visit NGO's and block level institutions of State for the project work. Faculty members are in role of facilitating such projects. The faculty member acts as a supervisor to monitor the project work. The necessary facilities required will be arranged by the department.

- The University have a well qualified pool of human resource to meet the requirements of the curriculum. However many of the teaching post are lying vacant despite several advertisement and interview processes. Visiting Professors / Visiting Fellows/ Guest Teachers / Contractual Teachers are appointed from time to time to meet the short fall in all the departments.

- Each faculty member has been provided with computer and internet facility to enable them to prepare –aided teaching / learning materials.

6.3.3   Examination and Evaluation

The salient features of the new and redesigned curricula are:
- Semester system
- Grade system
- Definite and structured contents with modularization of the syllabi.
- Modern exposures in the relevant topics of Science and Technology
- Co-curricular and extra-curricular activities included in the curriculum and made compulsory.

The examination system has been designed on the basis of new curriculum

The Controller of Examinations in consultation with the PG Department reformed examination system and conducts Semester System with the principal components:

- Each paper of 100 marks consists of common part of short questions and two groups (Group-A and Group-B)
- 20 marks of each paper is evaluated as internal assessment.
- Panel of examiners, paper setters and moderators are proposed by the PG Board of Studies
- Controller of Examination with the departmental supports conducts the whole examination process
- Results are published within 10 days of completion of examination.

6.3.4 Research and Development

Research activities were always given high priority in the university but got its real momentum after its up gradation as Central University. University is always motivating and providing different facilities to the faculties and scholars to enhance their research activities. In recent time, authority has extended various essential support systems for smooth conducting of research activities for the faculties as well as students in different departments. Few are as follows -

- Extension of Facility of Communication Network to all individual teachers.
- A grant of Rs 50000/- per year to all individual teachers for professional membership, participation & presentation of research papers, purchasing necessary materials etc.
- Providing internet facility to the out-campus faculty members and 24 hours internet facilities to in-campus faculties.
- 40 kVA/6hrs ON-Line UPS connected to all the science laboratories as backup power system.
- Monitoring the scholars' activity time to time by the Dean's committee.
- Submission of publication information time to time.
- The digitalisation of the well stocked Central Library, easy access to e-books and journals in every discipline.

Research committee and interdisciplinary research:

Respective department pursue the research proposal through board of Post Graduate Studies (BPGS), Board of Faculty and academic council. The names of external experts for the research activity are approved in the BPGS meeting. The Head of the department acts as the Chairman of the BPGS Committee. Dean acts as a member and 3 experts also represent from different institutions outside the University.

The University promotes interdisciplinary research by allowing the faculties to formulate interdisciplinary research proposal from among its different departments/ faculties/institutions. Further it allows students to take up Ph.D. research in interdisciplinary research topics. The seminar, symposium and workshops organized by every department attract active scientists from other departments' and encourage research collaborations.

The university initiated a number of interdisciplinary research programs like Physics–and-chemistry, CSE-EE-Physics, MRMD-and-Commerce.

6.3.5 Library, ICT and physical infrastructure / instrumentation

University has initiated process of promoting use e-resources among the students. Computer facilities have been upgraded in the Library, Computer Centre and Girls and Boys hostels so that the students can access websites containing e-learning resources. University has promoted e-learning by upgrading computer facilities in the Library, Computer Centre and Girls and Boys hostels so that the students can access websites containing e-learning resources. Following are the facilities available for virtual learning:

- The Central Library of Tripura University has access to various scientific journals and articles published by reputed national and international publishers through UGC-INFONET E-Journal program provided by INFLIBNET Centre, Ahmedabad, India. Teachers and Research scholars of University make best use of this.
- They also make use of INFLIBNET ISI Web of Knowledge, an academic citation indexing and search service, which is combined with web linking and provided by Thomson Reuters. Web of Knowledge coverage encompasses the sciences, social sciences, arts and humanities. It provides bibliographic content and the tools to access, analyze, and manage research information. It has the attribute that multiple databases can be searched simultaneously.
- University teachers also make use of INFLIBNET Open Journal Systems (OJS), an open source solution developed by the Public Knowledge Project through its federally funded efforts to expand and improve access to research. OJS, INFLIBNET offers a platform to host their journals. The OJS is designed for managing and publishing Scholarly Journals online.

University with its motto 'pursuit of excellence' encourages teachers to be innovative and creative following strategies have been formulated:

- Providing internet facility to the out-campus faculty members and 24 hours internet facilities to in-campus faculties.
- 40 kVA/6hrs ON-Line UPS connected to all the science laboratories as backup power system.
- Monitoring the scholars' activity time to time by the Dean's committee.
- Submission of publication information time to time.
- The digitalisation of the well stocked Central Library, easy access to e-books and journals in every discipline
- The institution also recognises such innovative teaching by selecting 'Inspired Teachers' who are awarded at the time of convocation by the Chief Guest. In the last convocation the inspired teachers were awarded by the Honourable President of India.
- Teachers in the department provide counselling and help to the students as and when required. Students can also approach Dean, Students' welfare regarding issues connected with their academic and for psycho social guidance. A counsellor has been engaged by the University on a contractual basis.
- Faculty members continuously update themselves with the recent developments in research in their respective fields and adopt these in the teaching and research. They also use innovative teaching approaches and methods to make the classroom interactions more dialogical.
- The University encourages creativity and scientific temper among the learners by creating a conducive environment for free thinking and sharing of ideas.
- Project works are mandatory in technical and professional courses. These are undertaken under the guidance of faculty members. In MRMD, Management, Engineering, Information Technology, Geography etc. student projects are mandatory. 10% programs in the University are compulsorily undertaking the student project. University is envisaging to associate with external institutions for students project work. MRMD students visit NGO's and block level institutions of State for the project work. Faculty members are in role of facilitating such projects. The faculty member acts as a supervisor to monitor the project work. The necessary facilities required will be arranged by the department.
- The University have a well qualified pool of human resource to meet the requirements of the curriculum. However many of the teaching post are lying vacant despite several advertisement and interview processes. Visiting Professors / Visiting Fellows/ Guest Teachers / Contractual Teachers are appointed from time to time to meet the short fall in all the departments.
- Each faculty member has been provided with computer and internet facility to enable them to prepare aided teaching / learning materials.

- Required number of intercom has been provided to all important tables of academic, administrative & library sections.

ICT implementation:

Tripura university has installed a it campus wide-area network of Optical Fibre connecting all the mutually and also with the library and administrative building. Internet connectivity through NME/NKN 1Gbps BSNL link can be accessed in the campus. Wireless connectivity is available in the central library, guest house. The computer centre is equipped with latest kind of servers and networking devices for its NOC. Recently, Tripura University has procured two more computer servers for backup and load balance. There is conference facility for the Head of Departments with the VC and the Registrar. The main auditorium and two other room are having permanent facilities of using LCD to conduct seminar in large and small scale.

• Some important softwares – ORACLE, LINUX, QuarkXpress and Mathematica, Matlab, Labview were installed already for various departments of the University.

Tripura University has made different efforts in order to improve its infrastructure requirements to facilitate research studies.

- Infrastructure facilities like laboratory, uninterrupted power supply, internet facility, common instrumentation facility and field units to do field research, staff to maintain the lab, water facility, etc., are created by the University.

- The major equipments available in University is HPLC, Satellite data, GCMS, Fluorescent Microscope, UVVIS Spectrophotometer, PCR, Gel documentation system, Atomic Force Microscope (AFM), FT-IR Spectrometer and GPS Receiver, LM – 320 Magnetometer, Boltek EFM etc.

- The University has received grant from the UGC (XI Plan period) and other similar bodies for development of research facilities through the schemes like UGC SAP, Non-SAP, DST FIST etc.

- In addition to this the University allocates budget for research in the budget heads Viz., equipments, laboratory maintenance, chemicals, glassware, maintenance of field units, etc to up keep the laboratories.

- Extension of Facility of Communication Network to all individual teachers.
- A grant of Rs 50000/- per year to all individual teachers for professional membership, participation & presentation of research papers, purchasing necessary materials etc.

6.3.6 Human Resource Management

The University is suffering from lack of adequate numbers and also non-teaching technical staffs are short in number. With this scarcity of human resource, the University is running smoothly .For this purpose authority request teacher of one department to conduct classes in an allied department. The students of one department sometimes go to other department where teacher of that department supports the student of sister department. Technical staffs are engaged in various departments as per requirement of their service. The teachers of English department, statistics departments and mathematics departments contributes academic support to IT department and life Science department. Teachers of Physics department support IT and computer Department. Compensated by another fellow teacher. In the case of lack of fellow teacher the head of the

When a teacher is in leave, the periods are compensated by another fellow teacher so that students do not suffer. Whenever there is lack of some specialized teachers in a department, the HOD submits a proposal to the authority for visiting fellow from other institutes / Universities. The authority gives approval as per real time necessity.

Non – teaching staffs of academic departments also give service to Registrar branch and Controller branch during the vacation.

6.3.7 Faculty and Staff recruitment

The registrar branch first identifies vacant posts. With the approval of Honourable Vice Chancellor the posts are advertised in National and Local newspaper and also in University website. Only those applications are considered which are submitted within stipulated date. The IQAC makes the preliminary scrutiny of the applications and submit them to registrars office. After that forms are scrutinized by a committee constituted on the basis of UGC rule. The eligible candidates are called for interview . The selection committee is formed. The selected candidates are given appointment letters after the approval by Executive council.

6.3.8 Industry Interaction / Collaboration

- Department are doing collaborative work with other agencies/institutes/ universities/Govt. Organization of national and international repute. The university is now highly benefiting through these collaboration in terms of academic and research activity getting academic, research programmes, technology Know-how, updating knowledge. The University, has also brought in collaborative research projects from other funding sources like DST, DBT, ISRO etc. These collaborative researches have made visible changes among the faculties in terms of their ability to work in inter-disciplinary concepts, increased and consistent participation in. The research activity is now diversified with respect to field of research and topics of study. The university has already been identified as distinct in biological and physical science for the database generation.

- The University continuously has been engaged in various activities in collaboration with ONGC. The department of Chemistry collaborates activities with DS group and TRPC, Govt. of Tripura. Botany Department is doing collaborative work with department of Forestry, Govt. of Tripura.

  The university is continuously making invitations to faculties across various parts of the country and abroad. Faculties are benefited by training programmes and exchange programmes conducted through these linkages.

  The various departments make the lists of researchers of eminence. After discussion in departmental committee meeting, the list is finalized by the respective departments. The proposal is then submitted to the authority. The authority explores the justification of the list and gives approval to appointment as visiting fellow/ visiting teacher.

  The facility that the authority gives to the department to invite researchers of eminence has a good impact on academic activity of all the departments . The students get the scope to ask the fundamental questions of various topics to them and then the adjunct professor clarifies elaborately all the questions to the students. The students also come to know about new theories of technologies from adjunct professors.

6.3.9 Admission of Students

Admission process is initiated through advertisement in local newspaper and in University website. The registrar office collects the application and send them to respective departments for scrutiny. The department prepares a merit list on the basis of result of eligibility examination and entrance examination is conducted. The selected candidates are given a specific period to get their admission. Vacant seats are filled up according to merit list. The Government reservation policy is followed up.

6.4 Welfare schemes for

Teaching	GPF/CPF/Pension/ Group Insurance
Non teaching	GPF/CPF/Pension/ Group Insurance
Students	Sc/St Scholarship

6.5 Total corpus fund generated

55.0 lacs

6.6 Whether annual financial audit has been done   Yes ✔   No ☐

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	-	-	Yes	✔
Administrative	-	-	-	-

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes   Yes [ ]   No [✓]

For PG Programmes   Yes [✓]   No [ ]

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

> Efforts are made to reform examination system by the University authority in consultation with principals of affiliated college. In step one an advisory committee is formed comprising deans, pro- VC and HOD's of PG department.
>
> The committee identifies the matter of necessity for the improvement of exam system and submits their suggestions . Honourable Vice Chancellor conducts a meeting with principals of affiliated colleges . The new rules for examination are drafted separately for Arts, Science and Technology. Approvals by AC and EC for the implementation of new exam process and rules.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

> There is no provision in the ACT of Tripura University to promote autonomy in the affiliated/constituent colleges

6.11 Activities and support from the Alumni Association

As Per provision laid down in Tripura University Act 2006,No 9 of 2007, clause 38 Tripura University Alumni Association (TUAA) has been formed on 12.12.13 in a meeting at 3.30 PM in the Council Room of Administrative Building, Tripura University with the permission of the authority.

Contact address:
 Alumni Association (TUAA)
Suryamaninagar – 799022
Agartala, West Tripura, India
Phone: +91-381-2379119
E-mail: tualumni@tripurauniv.in
http://tripurauniv.in/index.php/alumni

Aims & Objectives of the Association:

1) The main objectives of the TUAA are to maintain the association and to uplift the identity of Tripura University where we studied. After obtaining higher degrees many students are now working into various fields in India and abroad. The Alumni association would be the best and most suited arena to bring them together to exchange nostalgic feelings, ideas, thoughts, improve scientific knowledge time to time.
2) To support current students with scholarships, mentoring opportunities, career panels, freshman orientation, grants for student related programs, and other activities.
3) To provides intellectual, cultural, social networking events and honour Alumni for career accomplishments, philanthropy, and service.
4) To arrange meetings to discuss on how to improve the Association and help the development of the University needs if possible; as a whole to work for the interests of the Tripura University, in general.
5) Holding scientific meetings and conferences of national and international standard and to publish literature, books and journals for the fulfilment of the objects of the Association.
6) Any Alumni member visiting and wishing to give lectures can be arranged by the Association.
7) Public education program in various disciplines can be arranged.
To open branches of the Association.
8) To do all other activities for the fulfilment of the objects of the Association.

Recent initiatives:

1) The university has decided to publish the news letter of Tripura University Alumni Association (TUAA) in a regular interval. Work is going on to publish its first volume highlighting the motto of the association as well as Tripura University.
2) It has been planned to organize its first reunion as soon as possible.
3) TUAA will work to create few CHAIR Professor in different departments of Tripura University. Initiative has already been taken to raise fund in this regard.
4) Dedicated face book group and page for TUAA have been created to keep in touch with its all alumni working in different parts of India and abroad. Other social networking sites will also be utilised.
5) Initiative has been taken to register the TUAA under the Society Registration Act.

6.12 Activities and support from the Parent – Teacher Association

When the University faces some difficulties with students, the University readily inform the matter to the parent/guardian requesting him/her to meet the authority. After discussion with parents, the authority takes necessary action.

University also makes contact with parents requesting him/her to give some feedback/suggestion to improve the academic activities

6.13 Development programmes for support staff

Three teachers are given duty leave to attend refresher courses and orientation programs in various universities. Financial supports is provided to attend seminars, workshops, symposiums organized in other universities and research institutions. The teachers are encouraged with study leave to go through Post Doctoral activity in Foreign countries. The teachers are given sabbatical leave time to time to perform research activity in research institute over the country. An annual research grant of Rs 40,000/- is allotted for all individual faculty members.

6.14 Initiatives taken by the institution to make the campus eco-friendly

Since Tripura University has been converted to a Central University, efforts are being made to develop its campus on green concepts particularly focus on local eco-system conservation, use of alternative sources of energy, solid waste management, vermicomposting, green belt development, sustainable architectural designs of building. The University committed to an ecological sustainability, to include the establishment of the water-shed management, to establish green buildings, sewage treatment plant, rain water harvesting, functional state-of-the-art composting system (vermicomposting), green belt development, installation of solar panels etc. In particular, students have played a vital role in encouraging environmental consideration in every functional facet of the University.
Green Building: The buildings in the University are designed in such a manner where energy conservation techniques is implemented.
Solid Waste Management: The University has established the solid waste management facility using vermicompost technology at its campus to manage the solid waste generated on the campus. Vermicompost facility was established by the Department of Zoology.
Solar Energy: Tripura University has achieved 20% of its energy needs through solar energy. The university campus has two buildings (Administrative and Central Library) using 380 kV solar electricity by solar panels.
Rain Water Harvesting: Low / deep land area has been modified and constructed for rain water harvesting scheme of the University

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Linking Intended Learning Outcomes closely to assessment
- Use of innovative technology to improve teaching administration and feedback to large student cohorts
- Use of small group supervisions over the students time to time
- continuous assessment in academic programmes like PG Courses and Ph.D. Programmes.
- Transparent and confidential examination system
- There was a good interaction between the students and teachers which can
- strengthen with autonomy of the university,
- Personal attention to students, proper care for weaker students and challenging avenues for smarter students.
- Transparent admission process
- Low fee structure compared to other central universities in the country
- Publication of result within a week or ten days from the completion of the examination
- Participation in collaborative research
- Interdisciplinary activity
- The commitment to staff and student engagement in the curriculum review process which ensures a shared ownership and understanding of the approach to teaching in the university
- Performing Arts and Skills Development Workshop Services: innovative teaching and assessment methods and responsiveness to student needs and feedback to enhance the student learning experience
- Transparent recruitment of supporting non-teaching staff and teachers
- Interaction with eminent teachers and scientists in the academic programmes by inviting them
- Holding frequent seminar/conference/ workshop in departmental and university level
- Community activity
- Short courses and lectures are regularly organized on topics related to religion, culture and
- human values in general.
- Visits to villages and socio-economic analysis are yearly exercises for the departments of Sociology, Political Science, Economics and MBA
- Regular updating of the web site
- Publication of notices in due time
- Celebrations of occasions of importance - Teachers' Day, Independence Day and Republic Day, Gandhiji's Birthday

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

- Semester system in all PG courses started
- Entrance Examination is now for admission to 1st semester
- Admission notice is uploaded in the web site
- THE ORDINANCE of the university has come up
- PG Board of studies for all department formed
- Council of PG Board of studies has been formed
- Anti-ragging committee has been formed
- Interdisciplinary research activity started
- Engineering Department, 5 science PG department and 6 Arts department started.
- Optical Fibre based campus network in addition to NKN connectivity have been achieve enabled teaching-learning process
- Organized a large number (or the order of 100) seminar/conference and workshops
- RET scholarship implemented
- Coursework activity started in Ph. D. Programme
- All faculty members have been given computers
- Partial computerization of examination process has been done
- Most of the Vacancies in the post of Assistant Professor have been filled up
- Medical unit has been provided with two fulltime regular Doctors
- Engineers have been recruited
- Collaborative research started with other institutions
- Extension activity started
- Started Integrated Master Degree courses in five subjects
- Initiated counselling of the students frequently
- Placement activity enhanced

7.3 Give two Best Practices of the institution *(please see the format in the NAAC Self-study Manuals)*

Practice : 1)Title of the practice : Smooth Academic activity and transparent examination.

Objective of the practice ; To motivate the faculty and students to perform better teaching learning activity.

To create good academic atmosphere.

To create awareness about quality of higher education .

To motivate the students to develop work and culture in the academic institution.

Context – To create quality human resource.

To create teachers who will be a socially responsible person.

The University teachers followed up academic routine in a disciplined manner made maximum utilisation of laboratories. Teachers performed remedial classes to the weak students.

Evidence of Success :i) students attendance has increased remarkably

ii) Number of students securing first class increased

iii) Larger number of students were absorbed in job.

Problem encountered: Adequate study materials are not available.

Practice : 2)Title of the practice : Organising Seminars/Workshop in academic departments

Objective of the practice ; To make the students more communicative.

To make the student more knowledgeable.

To achieve linkage with eminent persons of other University .

To acquire skill to organise academic program.

Context – Only regular academic curriculum is not sufficient to make a person proper academic.

To develop challenging attitude to overcome any tragic situation.

Evidence of Success :i) more students are motivated to go through Phd. programmes

ii) Students are using a good portion of time in research activity.

iii) Some students are continuously making regular contact with scientists of national level

Problems Encountered: i)Shortage of space.

ii) Inadequate technical staff

Provide the details in annexure (annexure need to be numbered as i, ii,iii)

7.4 Contribution to environmental awareness / protection

> The University campus is now more neat and clean compared to the previous year. Teacher students and non teaching does not throw their wastage here and there. The trees are well maintained by removing the portion of branches time to time. The unwanted plants are removed periodically to maintain the campus area eco- friendly

7.5 Whether environmental audit was conducted?   Yes ✓   No ☐

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

> The university made a swot analysis with the following conclusions:
>
> i)   Strength: Transparent examination system.
>
> ii) Weakness: Inadequate space.
>
> iii) Opportunity :To organize more academic programs involving skilled students/scholars
>
> iv) Threat /Challenge : to fill up vacant posts.

8. **Plans of institution for next year:**

> i)   To search for more land in the neighborhood of University.
>
> ii)   To landmark for further horizontal and vertical development.
>
> iii) To create more scope in research and local resources.
>
> iv)   To provide more instrumental support to the researcher.
>
> v)   To increase organization of Seminar/ Conference etc.
>
> vi)   To create more linkage with esteemed research Institutes.

Name_Prof.Sukanta Banik_____

Signature of the Coordinator, IQAC   16/2/2018

Name_ Prof.Anjan Kumar Ghosh_____

Signature of the Chairperson, IQAC   16/2/18