



राष्ट्रीय प्रौद्योगिकी संस्थान अगर्तला
NATIONAL INSTITUTE OF TECHNOLOGY AGARTALA
An Institute of National Importance

ANNUAL REPORT

2016-2017



National Institute of Technology Agartala
Barjala, Tripura, India - 799046
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ANNUAL REPORT

2016 – 2017



NATIONAL INSTITUTE OF TECHNOLOGY AGARTALA

REPORTS/ PAPERS TO BE LAID ON THE TABLE OF LOK SABHA/ RAJYA SABHA

**ANNUAL REPORT AND ANNUAL ACCOUNTS
2016-2017**

(AUTHENTICATED)

MINISTER OF STATE IN THE
MINISTRY OF HUMAN RESOURCE DEVELOPMENT

NEW DELHI
DATED:



NATIONAL INSTITUTE OF TECHNOLOGY AGARTALA

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1.0 INTRODUCTION

National Institute of Technology Agartala, a Centrally Funded Institution is one of the thirty one National Level Technical Institutes in India. The Institute's vision is "to help to improve the economic development of the country particularly of the Institutes of the North-Eastern States, through the pursuit of excellence in technical education, research, consultancy and training". The Institute has marked an important footprint in this short span of time after its conversion from the erstwhile Tripura Engineering College to NIT Agartala in the year 2006. Situated in the lap of nature, NIT Agartala has embarked on a journey to make its presence felt in the map of Technical education and innovation in the country. Presently at the Under Graduate Level, B. Tech Degree Courses are offered in Civil Engineering, Mechanical Engineering, Electrical Engineering, Computer Science & Engineering, Electronics & Communication Engineering, Production Engineering, Chemical Engineering, Electronics & Instrumentation Engineering and Bio Engineering, out of which seven branches also offer Post-Graduate courses. The Institute also offers courses of higher study in computer applications, science subjects and management programmes, MCA, M. Sc., MBA. To promote fundamental research, it also has Ph.D along with Post-Doctoral Fellowship programs in various fields of specializations of Engineering, Science and Humanities & Social Sciences. The School of Management has also been started to produce management professionals, skilled with analytical and administrative ability.

The Institute has a dedicated Center for Career Development for organizing on campus placements process, Industrial Training, Study Tours, and Apprenticeship Training for the final year students. The Institute has several highly sophisticated laboratories empowered with the latest technical equipments that aim at catering the state of the art research. The Institute has a well-equipped workshop that provides centralized facilities for conducting classes at the undergraduate level and also meets the requirements of any state of the art project work and consultancy initiatives. The Library of the Institute is equipped with the latest RFID systems and dedicated digital section with online access to numerous international journals of repute and e-books from different online portals and subjects to quench the needs of our students and researchers.

The Institute has both Boys' and Girls' Hostel facilities. Students are accommodated in four Boy's Hostels and 1 Girls' Hostel. The institute looks forward to accommodate students into another Boy's hostel complex with boarding capacity of 1500 students before the start of the new academic session. The students take active part in all sorts of activities held in cultural and technical festivals in and outside the campus. The NITA Student Gymkhana is a very active student organization that acts as a link between the students and the administration. The Gymkhana Club promotes the objectives of fostering extra-curricular activities and works for the welfare of students. Every year the students of NIT Agartala organize the Annual Techno-Cultural fest called 'Advaitam' that witnesses spontaneous participation of students. Different Clubs such as Robotic Club, Soft Skills Development Club, Electronic Club, Music Club, Drama Club, Photographic Club, Art & Culture Club have been formed for encouraging the students to take part and develop themselves in various fields.

The entire NIT Agartala is sprawled over 365 acres of lush green land in nature's lap. Massive construction works are going on with a rapid pace to equip it fully with the

entire infrastructure. Virtual class room through 4 Mbps High definition video conferencing has been established under the second phase of the Pilot project launched by NICSI, New Delhi to connect IITs, IISc, TIFR and NITs through NKN and, a Multimedia centre has been developed to cater to the needs of the CDAC curricula. Having regard to the concern for the environment, Solar panels have been installed with a 90% subsidy by MNRE for street lights and other Emergency loads like Hospital, Guest House, Girls' Hostel etc. The entire campus of NIT Agartala is a Wi-Fi campus where internet facilities can be accessed from anywhere at any point of time. NIT Agartala is the first NIT to have started Kendriya Vidyalaya within its campus to provide education to the local people as well as the children of the faculty members and other staff members staying within the campus. NIT Agartala looks forward to work for a future that would empower our young generation with a quality technical education that will help them take greater responsibility to take our country forward.

1.1 Objectives:

The National Institute of Technology Agartala is an Institution of National Importance set up by Govt. of India. The mission of the Institution is :

- To develop professional attitude.
- To make good human beings possessing professional ethics.
- To make responsible citizens with social commitment.
- To develop entrepreneurial spirit among young professionals.
- To foster research and attitude for development.
- To ensure all round growth, fostering and developing better commitment in terms of both technological advancement and development.

1.2 Goal:

Institutional Goal – Short term and Long term

The target of the Institute is to achieve Short Term Goals within 5 years and the Long Term Goals within 10 years.

Short term goals:

- To complete the construction of Students' Hostels and Staff Quarters.
- Installation and commissioning of sub-station for reliable and quality power supply in the campus.
- To construct roads & other amenities as proposed in the master plan.
- To procure adequate laboratory equipment and machineries for UG and PG classes.
- To develop modern laboratories for Central Research Facilities and consultancy activities.
- Upgradation of existing campus to the wide network to provide continuous high broadband internet connectivity.
- Upgradation of existing library with modern facilities namely RFID, digital library, library management system, connectivity to e-journals and e-books of reputed publications.

- Creation of all infrastructural and other facilities such as all weather internal roads with footpath and well planned campus to be developed keeping in view the architectural landscaping and beautification.
- Entrepreneurship development aided with Technology Incubation.

Long Term Goals:

- To make it one of the leading technological Institutions not only in India, but also in the world map of technical Institutes.
- To attract large number of foreign students.
- To produce high quality research scholars in all professional areas.
- To attract high quality experienced faculty members of national and international standards.
- To strengthen Industry Institute partnership linkages.
- To extend facilities in terms of technology transfer for developing infrastructural facilities of the Region.
- To establish community development centres for nurturing and motivating the local talents and resources.
- To establish different Schools / Centres in the emerging Science, Technology and other related professional areas.
- To establish IPR centre and IIPC.
- To establish itself as an Educational Hub in the North-East Region.

1.3 Education System:

The National Institute of Technology Agartala offers B. Tech, MCA, MBA, M. Tech., M. Sc. (courses in Physics, Chemistry and Mathematics), BSMS (in Physics, Chemistry and Mathematics), BT-MT (in Engineering Physics) and Ph.D. courses in Engineering, Technology, Sciences, Humanities & Social Sciences.

The Institute has introduced a new curriculum in the line of IITs where more number of elective subjects are offered to make the system flexible. The Institute follows a credit based system for academic evaluation. It offers Industrial training and projects as a part of the education system and students are also encouraged to take part in various activities through NSS, NCC, Sports and other co-curricular activities for their social and personality development.

1.4 New Initiatives:

The PG programmes have been aimed to fulfil the requirement of Tripura and North East as a whole. The campus has been partially made residential with four boys' hostels and one girls' hostel. A fully residential campus will be developed with modern facilities for overall requirement of the Institute within 3 years.

The Institute gets a 33 KV dedicated power supply through Tripura State Electricity Corporation Limited for uninterrupted supply in the campus. Some other initiatives taken for augmenting the Institute with more infrastructure facilities are the construction of the following:

- (1) Up-gradation of the internal main road with both side footpath including side drain, electric post, bus stop, sitting arrangement at certain intervals & conduit from main gate – 1 to auxiliary gate -2 via housing and boys’ hostel & auxiliary gate -2 to main gate -1 and auditorium to existing play ground (old) at NIT Agartala.
- (2) Revamping of lakes, water harvesting and beautification of water bodies in NIT Agartala.
- (3) CCTV Surveillance System, LAN networking and telephone/ intercom system in Central Library at NIT Agartala.
- (4) HVAC System in Cental Library at NIT Agartala.
- (5) Internet Connection in Transportation Engineering Laboratory & Water Resource Engineering Laboratory of Civil Engineering Department (New Workshop).
- (6) Area Development works in and around Central Plaza, Academic Zone, NIT Agartala in progress.
- (7) Construction of Laboratory to conduct the experiment of Geotechnical Engineers for Ph. D. Scholars at NIT Agartala.

2.0 AN OVERVIEW

A brief overview about the Institute is furnished in this section.

2.1 Historical Background:

National Institute of Technology Agartala, a Centrally Funded Institution was set up to impart quality technical education into various levels of higher learning. It may be mentioned here that the 23rd February 2006 is a Red Letter Day in the history of Tripura Engineering College as well as in the State of Tripura as the Union Cabinet approved the proposal of the State Government for conversion of Tripura Engineering College to National Institute of Technology, a fully Central Government funded Institution with Deemed to be University status.

The Institute (i.e. erstwhile Tripura Engineering College) was established in 1965 with the three traditional branches of Civil, Electrical and Mechanical Engineering. It was initially affiliated to Calcutta University and had the same curriculum structure and examination system at par with Bengal Engineering College (presently Bengal Engineering and Science University, Shibpur). After the establishment of Tripura University, the Institute was then affiliated to Tripura University w.e.f. 1987.

2.2 Location:

The Institute is located on a site, 20 km. away from the capital city of Agartala and 4 km. away from National Highway (NH-44) connecting Agartala to Shillong. Agartala is linked to the rest of the country by road and rail-link via Silchar and Guwahati. It has got direct air link to New Delhi, Kolkata, Guwahati, Silchar, Imphal, Mumbai, Bangalore and Chennai. NIT Agartala is situated at 91°21'22.681" E (E 339387.823 m.) longitudes and 23°50'26.906" N (N 2637495.384 m.) latitude at a height of 43.786 metres above the sea level. The climate in the institute campus is moderate. The temperature varies from a minimum 6°C in the winter season to a maximum of 35°C in the summer season. The area has an approximate annual rainfall of 2200 mm.

The Institute is connected to the National Highway with all weather-metalled roads. Regular bus and jeep services are available from Agartala city to College Chowmuhani (NH 44 junction) near the Institute. Auto-rickshaw services are also available on the route from College Chowmuhani to the Institute and back. Direct regular bus service from Agartala (Nagerjola) to NIT Campus via Ranirbazar is now available. The nearest railway station at Jirania is about 2.5 km. from the Institute. The Institute also has its own bus service for campus dwellers.

2.3 Campus and Common Facilities:

The campus of the Institute is spread over an area of 365 acres, set amidst a sprawling landscape of natural quietness. It presents a spectacle of harmony in modern architecture, natural beauty aided with picturesque surroundings.

A well-equipped Medical Unit with four Medical Officers, two Pharmacists and other supporting staff is available in the campus for rendering medical care to the students, staff and other inmates of the campus. In case of emergency, arrangements are made for transferring the patients to the Jirania Primary Health Centre which is 4 km. away from the campus or to the State Hospital in Agartala. An ambulance service is also provided for students and staff.

A full-fledged Branch of State Bank of India named SBI NIT Agartala Branch is functioning in the Institute campus with the Core Banking facility since 28th March 2008. The SBI has opened an ATM counter in the Institute campus. Teachers, staff, students and local inhabitants are getting benefit out of it. With the introduction of nationalized Banking facility in the campus, a long pending demand of the students and staff of the Institute has been fulfilled. Two ATM counters one by CANARA Bank and the other by Punjab National Bank have also been operating in the campus. CANARA Bank opened their branch in the Institute's premises.

The Tripura Gramin Bank has a branch operating from the Institute campus named as NIT Agartala Branch. The campus also has a Sub-Post Office by the name "NIT Agartala" having PIN: 799 046.

2.4 Initiatives for Research & Development:

NIT Agartala has performed well in culturing of academic and research environment within its wide area of specialization offered by faculty members of different departments. The following four MOUs have been signed with NIT Agartala.

- a. The 1st MOU has been exchanged on 16th November 2016 in between Prof. (Dr.) Gopal Mugeraya, Director, NIT Agartala and Mr. S. C. Soni, Executive Director and Asset Manager of ONGC, Tripura. The MOU is aimed to promote knowledge of excellence in the area of engineering through research, training, workshop and work association. The MOU will be valid for 5 (five) years in the sector of knowledge updating, collaborative research in oil sectors, imparting training, conducting short term courses etc. As the matter stated, this particular MOU with ONGC, Tripura Asset will be a beginning of a new era in the research and development in specific of Tripura and North East for the benefit of the society.
- b. The 2nd MOU was signed with Mr. A. G West, Kharkongor, CMD, NEEPCO. NEEPCO is performing for the development of the region in hydro, thermal and solar power for quite a long time. They have agreed to develop collaboration that addresses to important problems of National interest. They will also encourage and support students to take part in internship training, joint collaborative research to mitigate and solve industrial problems and also support joint guidance of the students in UG and PG level thesis. The validity of the MOU is also stated for 5 (five) years but with the mutual concern it can run for further time.
- c. For building the career of the students, soft skill development for the students of NIT Agartala is very much essential. In this endeavour, entrepreneurship development is necessarily felt. In this connection, iBuild exchanged an MOU with NIT Agartala through its Director Ms. K. R. Alekhya. The MOU includes

matter within the sector of entrepreneurship development by providing support of incubation, mentoring, funding etc. iBuild also help to develop business models based on feasible innovation at NIT Agartala as a part of internship and skill development program. In the modern era of technology, in the IT and advance technologies like cyber security, data analysis -- NIT Agartala and iBuild will jointly work for developing the business skill support of new entrepreneurs, update and ventilate Intellectual Property Right, financial and business modelling which will support the probable new type venture for survival in the greater run.

- d. MOU with IIT Madras, Chennai, India (date of signing 27-01-2017). Pursuant to the agreement for academic exchange, National Institute of Technology, Agartala and Indian Institute of Technology Madras, Chennai will exchange students according to the detailed terms laid out. It is desired by both parties that there will be significant flow of students in both directions. Faculty from both Institutions will collaborate in the supervision of exchange students and in joint research in disciplines of mutual interest. Admission of top 10% of the students of NITA direct PhD Admission at IITM. NITA and IITM agree to facilitate top 10% of the students (at the end of 6th semester) of NITA to seek admission to direct PhD programme of IITM, and enable successful candidates to pursue their 7th and 8th semester of their B.Tech programme at IITM, according to the terms laid out in details.

2.5 Placements:

The Institute has a Centre for Career Development (CCD) under the Chairmanship of Prof. U. Mishra with supporting staff. The CCD helps the students to get proper placements in various Public and Private Sector Organizations by arranging the campus interviews. Study Tours and Industrial Trainings are also organized by this Cell.

2.6 Games and Sports:

The students actively participate in all co-curricular activities like Games and Sports, Debates, Cultural-Functions, Essay Competitions, Drama Competitions, Rallies on various themes, NSS programmes, etc. being sponsored by the State Government and Central Government and other statutory bodies and also by the institute authority. N.S.S. or N.C.C. is a compulsory subject for all the students of first year.

3.0 ADMINISTRATION

3.1 Introduction:

Recognizing the growing need of quality technical education in the North Eastern Region, the Union Cabinet approved the proposal of the State Government for the conversion of the erstwhile Tripura Engineering College to National Institute of Technology, to a fully Central Government funded Institution with Deemed to be University status on 23rd February, 2006. The Ministry of Human Resource Development, Government of India issued the official notification No. F. 26-20/2004/TS-III dated 10.03.2006 that marked the emergence of National Institute of Technology Agartala with effect from 01.04.2006.

National Institute of Technology Agartala (NITA) is an autonomous statutory organization set up by NIT ACT. ***NIT Act and first Statutes framed under the ACT have provision for 4 Authorities. Board of Governors (BOG)*** is the highest authority, responsible for overall administration and control of the Institution. Under the supervision of BOG, three (3) other authorities work in different areas for proper supervision, maintenance and implementation of decisions and policies of the Institution. The other authorities are (1) Finance Committee, (2) Building & Works Committee and (3) Senate. The functions, responsibilities, powers of BOG, Finance Committee, Building & Works Committee and Senate are provided in the NIT ACT and Statutes.

Members of the Board of Governors (BOG)

<u>Sl. No.</u>	<u>Name and Designation of the Members</u>
1	Padma Shri Deepak B. Phatak, Chairperson, BOG, NIT Agartala and Professor, Department of Computer Science & Engineering, IIT Bombay.
2	Prof. (Dr.) Gopal Mugeraya, Director, NIT Agartala (Tripura).
3	The Special Secretary/ Additional Secretary/ Joint Secretary dealing with Technical Education, Department of Higher Education, Ministry of Human Resource Development, Govt. of India.
4	The Financial Adviser, Department of Higher Education, Ministry of Human Resource Development, Govt. of India.
5	The Principal Secretary to the Govt. of Tripura, Dept. of Higher Education, Tripura.
6	Prof. Vijayalakshmi Ravindranath, Indian Institute of Science, Bangalore.
7	Prof. Sanghamitra Bandyopadhyay, Director, Indian Statistical Institute, Kolkata.
8	Prof. A. Srinivasan, Dean of Faculty Affairs, IIT Guwahati, Assam.
9	Prof. (Mrs.) Uma Bhattacharya, Department of Computer Science and Technology, BESU, Shibpur.
10	Shri Alok Roy Choudhury, Additional Chief Engineer, PWD, Govt. of Tripura, Agartala, Tripura.
11	Prof. R. P. Sharma, Professor, Civil Engineering Department, NIT Agartala.
12	Dr. John Debbarma, Assistant Professor, Department of Mechanical Engineering, NIT, Agartala.
13	Dr. D. Bhattacharya, Registrar (in-charge), Secretary of BOG.

Members of the Finance Committee

<i>Sl. No.</i>	<i>Name and Designation of the Members</i>
1	Padma Shri Deepak B. Phatak, Chairperson, BOG, NIT Agartala and Professor, Department of Computer Science & Engineering, IIT Bombay.
2	Prof. (Dr.) Gopal Mugeraya, Director, NIT Agartala (Tripura).
3	The Joint Secretary dealing with NITs or his nominee, Department of Higher Education, Ministry of Human Resource Development, Govt. of India.
4	The Financial Advisor or his nominee, Department of Higher Education, Ministry of Human Resource Development, Govt. of India.
5	Dr. John Debbarma, Assistant Professor, Department of Mechanical Engineering, NIT, Agartala.
6	Dr. D. Bhattacharya, Registrar (in-charge), Member Secretary of FC.

Members of the Building and Works Committee

<i>Sl. No.</i>	<i>Name and Designation of the Members</i>
1	Prof. (Dr.) Gopal Mugeraya, Director, NIT Agartala (Tripura) – Chairman of the BWC.
2	The Dy. Director or Dy. Secretary, Department of Higher Education, Ministry of Human Resource Development, Govt. of India.
3	The Dean (P&D), NIT Agartala.
4	Shri Asit Bhaumik, Addl. Chief Engineer, PWD, Govt. of Tripura.
5	Shri Kajal Banik, Executive Engineer, Electrical Inspectorate, Govt. of Tripura.
6	Prof. R. P. Sharma, Professor, Civil Engineering Department, NIT Agartala.
7	Dr. D. Bhattacharya, Registrar (in-charge), Member Secretary of BWC.

Members of the Senate meeting

<i>Sl. No.</i>	<i>Name and Designation of the Members</i>
1	Prof. (Dr.) Gopal Mugeraya, Director, NIT Agartala (Tripura), Chairman of the Senate.
2	Prof. A. Vasudeva Adhikari, Prof. of Chemistry, NITK, Surathkal.
3	Prof. Saji Gopinath, Indian Institute of Management, Kozhikode, Kerala.
4	Prof. Subhas Chandra Saha, Professor, NIT Agartala.
5	Prof. Umesh Mishra, Professor, NIT Agartala.
6	Prof. Monoj Mitra, Prof. of Metallurgy & Dean of Engineering, Jadavpur University.
7	Prof. R. P. Sharma, Civil Engineering Department, NIT Agartala (Tripura).
8	Dr. D. Bhattacharya, Registrar (in-charge), Member Secretary of the Senate.

3.2 Number of Meetings of the Authorities

During the period under report, the number of meetings held by various authorities are mentioned below:

A. Board of Governors : 3 Nos.

B.	Finance Committee Meeting	: 2 Nos.
C.	Building & Works Committee Meeting	: 3 Nos.
D.	Senate	: 3 Nos.

3.3 Staff Position

3.3.1 Name of Director, Registrar, Deans and HoDs

DIRECTOR	: Prof. (Dr.) Gopal Mugeraya
REGISTRAR (in-charge)	: Dr. Debasish Bhattacharya
OFFICER ON SPECIAL DUTY	: Dr. N.K. Kole
DY. REGISTRAR (Admn)	: Mr. Tanmoy Ghosal

Deans:

- 1) Dean (Academic)
- 2) Dean (Faculty Welfare)
- 3) Dean (Planning & Development)
- 4) Dean (Allumni)
- 5) Dean (Student Affairs)
- 6) Dean (Research & Consultancy)

Name of the Deans

- : Dr. Ajoy Kumar Das
- : Dr. Ardhendu Saha
- : Dr. Ratul Das
- : Dr. Prasun Chakraborti
- : Dr. Priyanath Das
- : Dr. Ram Naresh Rai

Heads of the Departments/Schools

- 1) Civil Engineering
- 2) Electrical Engineering
- 3) Mechanical Engineering
- 4) Computer Science & Engineering
- 5) Electronics & Communication Engineering
- 6) Production Engineering
- 7) Physics
- 8) Chemistry
- 1) Mathematics
- 9) Humanities & Social Science
- 10) Chemical Engineering
- 11) Electronics & Instrumentation Engineering
- 12) Bio Engineering
- 13) School of Management

Name of the HODs

- : Dr. Manish Pal
- : Dr. Ajoy Kr. Chakraborty
- : Dr. Swapan Bhounik
- : Dr. Mrinal Kanti Debbarma
- : Mr. Atanu Choudhury
- : Mr. Prasenjit Datta
- : Dr. (Mrs.) Aparna Nath
- : Dr. Tarun Kr. Misra
- : Dr. Apu Kumar Saha
- : Dr. (Mrs.) Gyanabati Khuraijam
- : Dr. Srimanta Ray
- : Dr. Jayanta Kumar Rakshit
- : Dr. Tarun Kanti Bandopadhyaya
- : Dr. Anirban Dutta

Head of Central Services, Facilities and Sections:

Medical Officer	: (i) Dr. Tapan Kr. Datta. (ii) Dr. Dhurjati Debbarma. (iii) Dr. Parimal Chakraborty. (iv) Dr. Sushanta Chakma.
Chairman, CCD	: Prof. U. Mishra
Senior Librarian	: Mr. Kanu Ranjan Roy
Chief Warden	: Dr. R. K. Yadav
Faculty In-charge (Workshop)	: Dr. Madhujit Deb
C-DAC Co-ordinator	: Sri Nirmalya Kar

Centre Co-ordinator of QIP
Centre Co-ordinator of TEQIP

: Dr. R.S. Panua
: Dr. Ardhendu Saha

Engineering Unit:

Estate Engineer (Civil)

: Sri P. C. Das

3.3.2 List of Faculty Members

3.3.2.1 Regular faculty members

<i>Sl. No.</i>	<i>Name</i>	<i>Designation</i>	<i>Department</i>	<i>Date of Joining</i>
1.	Prof. Gopal Mugeraya	Director		10-10-2013
2.	Dr. S. C. Saha	Professor	Mech. Engg.	01-04-2006
3.	Dr. Umesh Mishra	Professor	Civil Engg.	03-10-2008
4.	Prof. Richi Prasad Sharma	Professor	Civil Engg.	01-04-2006
5.	Dr. Swapan Bhowmik	Assoc. Prof.	Mech. Engg.	01-04-2006
6.	Dr. Prasun Chakrabarti	Assoc. Prof.	Mech. Engg.	01-04-2006
7.	Dr. Ajoy kumar Das	Assoc. Prof.	Mech. Engg.	01-04-2006
8.	Dr. Rajsekhar Panua	Assoc. Prof.	Mech. Engg.	24-05-2010
9.	Dr. G.Ravi Kiran Sastry	Assoc. Prof.	Mech. Engg.	24-04-2012
10.	Dr. Sujit Kumar Pal	Assoc. Prof.	Civil Engg.	01-04-2006
11.	Dr. Manish Pal	Assoc. Prof.	Civil Engg.	01-04-2006
12.	Dr. Ratul Das	Assoc. Prof.	Civil Engg.	01-04-2006
13.	Dr.(Mrs.) Rama Deb Barma	Assoc. Prof.	Civil Engg.	01-04-2006
14.	Dr. Rup Narayan Roy	Assoc. Prof.	Elect. Engg.	01-04-2006
15.	Dr. Ardhendu Saha	Assoc. Prof.	Elect. Engg.	01-04-2006
16.	Dr. Priyanath Das	Assoc. Prof.	Elect. Engg.	01-04-2006
17.	Dr. Ajoy Kr. Chakraborty	Assoc. Prof.	Elect. Engg.	15-07-2010
18.	Dr. Diptendu Bhattacharya	Assoc. Prof.	Com. Sc. & Engg.	01-04-2006
19.	Dr. Ram Naresh Rai	Assoc. Prof.	Prod. Engg.	25-06-2010
20.	Dr. Dibyendu Ghoshal	Assoc. Prof.	Electronics & Commu.Engg.	29-04-2010
21.	Dr. Debasish Bhattacharya	Assoc. Prof.	Mathematics	01-04-2006
22.	Dr. Uttam Kr.Bera	Assoc. Prof.	Mathematics	01-09-2010
23.	Dr. Paritosh Bhattacharya	Assoc. Prof.	Mathematics	27-03-2012
24.	Dr. Aparna Nath	Assoc. Prof.	Physics	01-04-2006
25.	Dr. Saroj kumar Das	Assoc. Prof.	Chemistry	01-04-2006
26.	Dr. Tarun Kumar Mishra	Assoc. Prof.	Chemistry	09-04-2012
27.	Dr. Debasish Neogi	Assoc. Prof.	Hum. & So. Sc.	22-08-2008
28.	Dr. John Deb Barma	Asst. Prof.	Mech. Engg.	01-04-2006
29.	Dr. Prittam Das	Asst. Prof.	Mech. Engg.	01-04-2006
30.	Sri Abhik Majumder	Asst. Prof.	Mech. Engg.	01-04-2006
31.	Dr. Madhujit Deb	Asst. Prof.	Mech. Engg.	01-04-2006
32.	Sri Barnik Saha Roy	Asst. Prof.	Mech. Engg.	01-04-2006
33.	Sri Pankaj kumar Das	Asst. Prof.	Mech. Engg.	01-04-2006
34.	Sri Arindam Majumder	Asst. Prof.	Mech. Engg.	20-04-2010

35.	Dr. Rahul Banerjee	Asst. Prof.	Mech. Engg.	12-04-2010
36.	Sri Ankuran Saha	Asst. Prof.	Mech. Engg.	21-05-2012
37.	Sri R.K. Bhogendra Meiti	Asst. Prof.	Mech. Engg.	29-06-2012
38.	Dr. Ajoy Biswas	Asst. Prof.	Mech. Engg.	01-07-2007 23-07-2012
39.	Dr. (Mrs.) Tara Sen	Asst. Prof.	Mech. Engg.	12-04-2010
40.	Dr. Subrata kumar Ghosh	Asst. Prof.	Mech. Engg.	07-06-2012
41.	Smt. Lipika Haldar	Asst. Prof.	Civil Engg.	01-04-2006
42.	Dr. (Mrs) Sima Ghosh	Asst. Prof.	Civil Engg.	01-04-2006
43.	Dr. Rajib Saha	Asst. Prof.	Civil Engg.	01-04-2006
44.	Sri Gopinandan Dey	Asst. Prof.	Civil Engg.	01-04-2006
45.	Dr. Jayanta Pal	Asst. Prof.	Civil Engg.	01-04-2006
46.	Sri Nilotpal Deb Barma	Asst. Prof.	Civil Engg.	01-04-2006
47.	Dr. Sanjay Paul	Asst. Prof.	Civil Engg.	24-05-2012
48.	Dr. Animesh Debnath	Asst. Prof.	Civil Engg.	21-06-2012
49.	Dr. Sushant Kr. Biswal	Asst. Prof.	Civil Engg.	21-06-2012
50.	Dr. Surajit Das	Asst. Prof.	Civil Engg.	16-05-2012
51.	Sri Dipankar Sarkar	Asst. Prof.	Civil Engg.	01-04-2006
52.	Dr. Debdulal Tripura	Asst. Prof.	Civil Engg.	01-04-2006
53.	Dr. Partha Pratim Sarkar	Asst. Prof.	Civil Engg.	08-09-2008
54.	Smt Anindita Jamatia	Asst. Prof.	Elect. Engg.	01-04-2006
55.	Sri Abaniswar Chakraborti	Asst. Prof.	Elect. Engg.	01-04-2006
56.	Dr. (Mrs.) Sumita Deb	Asst. Prof.	Elect. Engg.	01-04-2006
57.	Sri Prabir Ranjan Kasari	Asst. Prof.	Elect. Engg.	01-04-2006
58.	Smt Minakshi Deb Barma	Asst. Prof.	Elect. Engg.	01-04-2006
59.	Sri Bikram Das	Asst. Prof.	Elect. Engg.	01-04-2006
60.	Dr. Subhadeep Bhattacharjee	Asst. Prof.	Elect. Engg.	13-04-2010
61.	Sri Prasenjit Debnath	Asst. Prof.	Elect. Engg.	30-07-2010
62.	Ms. Joyshree Das	Asst. Prof.	Elect. Engg.	11-10-2012
63.	Dr. Aniruddha Bhattacharya	Asst. Prof.	Elect. Engg.	12-12-2012
64.	Dr. Biman Kumar Saha Roy	Asst. Prof.	Elect. Engg.	28-02-2013
65.	Dr. Mrinal Knt. Debbarma	Asst. Prof.	Com. Sc. & Engg.	01-04-2006
66.	Dr. Swapan Deb Barma	Asst. Prof.	Com. Sc. & Engg.	01-04-2006
67.	Sri Nikhil Deb Barma	Asst. Prof.	Com. Sc. & Engg.	01-04-2006
68.	Sri Kunal Chakma	Asst. Prof.	Com. Sc. & Engg.	01-04-2006
69.	Smt Smita Das	Asst. Prof.	Com. Sc. & Engg.	01-04-2006
70.	Sri Dwijen Rudra Pal	Asst. Prof.	Com. Sc. & Engg.	01-04-2006
71.	Sri Suman Deb	Asst. Prof.	Com. Sc. & Engg.	01-04-2006
72.	Sri Anupam Jamatia	Asst. Prof.	Comp. Sc. & Engg.	01-04-2006
73.	Sri Tribid Deb Barma	Asst. Prof.	Comp. Sc. & Engg.	01-04-2006
74.	Sri Nirmalya Kar	Asst. Prof.	Comp. Sc. & Engg.	29-07-2010
75.	Dr. Ashim Saha	Asst. Prof.	Comp. Sc. & Engg.	12-10-2012
76.	Sri Manik Bhowmik	Asst. Prof.	Electro. & Comm. Engg.	01-04-2006
77.	Sri Biman Deb Barma	Asst. Prof.	Electro. & Comm. Engg.	01-04-2006
78.	Sri. Kamalesh Debnath	Asst. Prof.	Electro. & Comm. Engg.	12-04-2010
79.	Dr. Sambhu Nath Pradhan	Asst. Prof.	Electro. & Comm. Engg.	28-05-2010
80.	Sri Anirban Bhattacharya	Asst. Prof.	Electro. & Comm. Engg.	21-05-2012

81.	Sri Somnath Roy Choudhury	Asst. Prof.	Electro. & Comm. Engg.	21-05-2012
82.	Dr.(Mrs.) Tamasi Moyra (Panua)	Asst. Prof.	Electro. & Comm. Engg.	13-06-2012
83.	Ms.MadhuparnaChakraborty	Asst. Prof.	Electro. & Comm. Engg.	22-06-2012
84.	Sri Mitra Barun Sarkar	Asst. Prof.	Electro. & Comm. Engg.	15-06-2012
85.	Sri Atanu Chowdhury	Asst. Prof.	Electronics & Inst. Engg.	22-09-2008
86.	Dr. Jayanta Kr. Rakshit	Asst. Prof.	Electronics & Inst. Engg.	23-08-2010
87.	Sri Prasenjit Datta	Asst. Prof.	Prod. Engg.	01-04-2006
88.	Sri Kishan Choudhuri	Asst. Prof.	Prod. Engg.	18-09-2008
89.	Sri Swarup Paul	Asst. Prof.	Prod. Engg.	20-02-2009
90.	Ms. Seena P.	Asst. Prof.	Prod. Engg.	13-05-2010
91.	Dr. Vidyut Dey	Asst. Prof.	Prod. Engg.	01-06-2012
92.	Dr. Uttam Kumar Mandal	Asst. Prof.	Prod. Engg.	28-05-2012
93.	Mrs. Soma Nag	Asst. Prof.	Chemical Engg.	14-06-2010
94.	Dr. Tarun Knt. Bandyopadhyay	Asst. Prof.	Chemical Engg.	04-05-2012
95.	Dr. Srimanta Ray	Asst. Prof.	Chemical Engg.	04-05-2012
96.	Dr. Kalyan Gayen	Asst. Prof.	Chemical Engg.	04-05-2012
97.	Dr. Ajay kumar Manna	Asst. Prof.	Chemical Engg.	17-12-2012
98.	Dr. Apu kumar Saha	Asst. Prof.	Mathematics	01-04-2006
99.	Dr. (Mrs) Baby Bhattacharya	Asst. Prof.	Mathematics	06-02-2009
100.	Dr. Suvra Prakash Mondal	Asst. Prof.	Physics	01-11-2012
101.	Dr. Biswajit Saha	Asst. Prof.	Physics	30-11-2012
102.	Dr. (Mrs.) Mitali Saha	Asst.Prof.	Chemistry	12-04-2010
103.	Dr. Keisham Surjit Singh	Asst. Prof.	Chemistry	26-07-2010
104.	Dr. Gyanabati Khuraijam	Asst. Prof.	Hum. & Sco. Sc.	07-05-2010
105.	Dr. Anirban Dutta	Asst. Prof.	School of Management	06-11-2012
106.	Dr. Mrinmoy Majumder	Asst. Prof.	School of Hydro. Info. Engg.	17-11-2012

3.3.2.2 Contractual faculty members.

<i>Sl. No.</i>	<i>Name</i>	<i>Designation</i>	<i>Department</i>	<i>Date of Joining</i>
1.	Prof. Bidyut Bhattacharjee	Professor	Elect. & Comm. Engg.	17-01-2013
2.	Ms. Moumita Majumder	Asstt. Prof.	Comp. Sc. & Engg.	18-08-2010
3.	Ms. Lalita Kumari	Asstt. Prof.	Comp. Sc. & Engg.	18-08-2010
4.	Ms. Sharmistha Majumder	Asstt. Prof.	Comp. Sc. & Engg.	24-08-2011
5.	Ms. Priyanka Sarkar	Asstt. Prof.	Comp. Sc. & Engg.	01-04-2013
6.	Sri Dhrubajyoti Bhowmik,	Asstt. Prof.	Comp. Sc. & Engg.	01-04-2013
7.	Sri Parthasarathi De	Asstt. Prof.	Comp. Sc. & Engg.	08-04-2013
8.	Ms. Purbani Kar	Asstt. Prof.	Comp. Sc. & Engg.	10-07-2014
9.	Sri Tamal Biswas	Asstt. Prof.	Comp. Sc. & Engg.	10-07-2014
10.	Sri Kishore Kr. Dhar	Asstt. Prof.	Comp. Sc. & Engg.	10-07-2014
11.	Sri Prashant Bhardwaj	Asstt. Prof.	Comp. Sc. & Engg.	10-07-2014
12.	Ms. Tannistha Pal	Asstt. Prof.	Comp. Sc. & Engg.	10-07-2014
13.	Sri Sanjib Debnath	Asstt. Prof.	Comp. Sc. & Engg.	10-07-2014
14.	Sri Rajib Chowdhuri	Asstt. Prof.	Comp. Sc. & Engg.	11-07-2014

15.	Sri Subhajit Deb	Asstt. Prof.	Civil Engg.	06-08-2010
16.	Ms. Tillotama Chakraborty	Asstt. Prof.	Civil Engg.	30-08-2011
17.	Ms.Nabanita Bhowmik	Asstt. Prof.	Civil Engg.	06-12-2012
18.	Sri Abhijit Debnath	Asstt. Prof.	Civil Engg.	06-12-2012
19.	Ms. Subhra Das	Asstt. Prof.	Civil Engg.	12-12-2012
20.	Sri Dibyendu Paul	Asstt. Prof.	Civil Engg.	07-10-2014
21.	Ms. Sadria Begam		Civil Engg.	
22.	Ms. Dipika Debnath	Asstt. Prof.	Civil Engg.	14-07-2014
23.	Sri Chirabrata Debnath	Asstt. Prof.	Civil Engg.	10-10-2014
24.	Sri Suman Debnath	Asstt. Prof.	Civil Engg.	14-07-2014
25.	Mrs. Parmita Majumder	Asstt. Prof.	Civil Engg.	22-03-2016
26.	Ms. Nabina Khanam	Asstt. Prof.	Civil Engg.	21-01-2015
27.	Sri Ratnadeep Modak	Asstt. Prof.	Civil Engg.	22-01-2015
28.	Sri Sukanta Chakraborty	Asstt. Prof.	Civil Engg.	21-01-2015
29.	Sri Debashish Karmakar	Asstt. Prof.	Civil Engg.	07-07-2015
30.	Sri Sajal Rudra Paul	Asstt. Prof.	Civil Engg.	01-09-2016
31.	Sri Bibhab Kr. Lodh	Asstt. Prof.	Chemical Engg.	05-08-2011
32.	Dr. Abhijit Mandal	Asstt. Prof.	Chemical Engg.	21-01-2013
33.	Dr.Mriganka Sekhar Manna	Asstt. Prof.	Chemical Engg.	17-07-2014
34.	Sri Sudev Das	Asstt. Prof.	Chemical Engg.	14-07-2014
35.	Dr. Swarup Biswas	Asstt. Prof.	Chemical Engg.	22-08-2016
36.	Dr. Abhijit Baidya	Asstt. Prof.	Maths. Dept.	23-08-2010
37.	Dr. Susmita Roy	Asstt. Prof.	Maths. Dept.	01-08-2011
38.	Dr. Jayanta Debnath	Teaching Asstt.	Maths. Dept.	01-08-2011
39.	Dr. Pinki Majumder	Teaching Asstt.	Maths. Dept.	01-08-2011
40.	Dr. Jayasree Chakraborty	Asstt. Prof.	Maths. Dept.	05-09-2012
41.	Dr. Mantu Das	Asstt. Prof.	Maths. Dept.	17-07-2014
42.	Dr. Ravi Shankar Kumar	Asstt. Prof.	Maths. Dept.	17-07-2015
43.	Ms. Sudipa Choudhury	Teaching Asstt.	Maths. Dept.	29-07-2015
44.	Dr. Sayanta Chakraborty	Asstt. Professor	Maths. Dept.	19-08-2016
45.	Mr. Ashish Kumar Roy	Teaching Asstt.	Maths. Dept.	19-08-2016
46.	Dr. Kalyani Debnath	Asstt. Prof.	Maths. Dept.	19-08-2016
47.	Sri Subharaj Paul	Teaching Asstt.	Physics Dept.	01-08-2012
48.	Dr.Manash Kr.Paul	Asstt. Prof.	Physics Dept.	16-07-2010 17-10-2012
49.	Dr.Sanjay Kr.Mandal	Asstt.Prof.	Physics Dept.	05-11-2012
50.	Dr.Thingujam Kiranmala Devi	Asstt.Prof.	Physics Dept.	21-07-2014
51.	Dr. Nandini Roy	Asstt.Prof.	Physics Dept.	23-07-2014
52.	Dr. Biswajit Paul	Asstt.Prof.	Physics Dept.	20-07-2015
53.	Dr. Santanu Chakraborty	Asstt.Prof.	Physics Dept.	13-07-2015
54.	Dr. Chakradhar Behra	Asstt. Prof.	Physics Dept.	16-08-2016
55.	Dr. Ngangbam Ishwarchandra	Asstt. Prof.	Physics Dept.	11-08-2016
56.	Ms. Saswati Roy	Teaching Asstt.	Physics Dept.	16-08/2016
57.	Mr. Debanjan Bhattacharjee	Teaching Asstt	Mech. Engg.	14-03-2017
58.	Dr. Saroj Kumar Parida	Asstt. Prof.	Mech. Engg.	13-02-2017

59.	Sri Durbadal Debroy	Asstt. Prof.	Mech. Engg.	03-08-2011
60.	Sri Aparesh Datta	Asstt. Prof.	Mech. Engg.	03-08-2011
61.	Dr. Abhishek Paul	Asstt. Prof.	Mech. Engg.	19.08.2011
62.	Dr. Ashis Acharjee	Asstt. Prof.	Mech. Engg.	11-07-2014
63.	Ms. Mitali Debnath	Asstt. Prof.	Mech. Engg.	14-07-2014
64.	Sri Arindam Sinha	Asstt. Prof.	Mech. Engg.	14-07-2014
65.	Ms. Moutoshi Singha Roy	Asstt. Prof.	Mech. Engg.	29-07-2015
66.	Dr. Sagnik Pal	Asstt. Prof.	Mech. Engg.	30-07-2015
67.	Sri Dipak Ch. Das	Asstt. Prof.	Mech. Engg.	30-07-2015
68.	Dr. Joydeep Roy	Asstt. Prof.	Mech. Engg.	07-03-2016
69.	Sri Krishanu Gupta	Asstt. Prof.	Mech. Engg.	07-03-2016
70.	Dr. Pinku Debnath	Asstt. Prof.	Mech. Engg.	14-09-2016
71.	Ms. Sharmistha Sharma	Asstt. Prof.	Elect. Engg.	12-08-2009
72.	Sri Diptanu Das	Asstt. Prof.	Elect. Engg.	08-08-2011
73.	Dr. Bidyut Kr. Bhattacharya	Professor	Elect. Engg.	17-01-2013
74.	Ms. Saheli Roy	Asstt. Prof.	Elect. Engg.	12-08-2009
75.	Dr. Bhaskar Bhattacharjee	Asstt. Prof.	Elect. Engg.	18-03-2009
76.	Ms. Nivedita Laskar	Asstt. Prof.	Elect. Engg.	15-11-2012
77.	Sri Diptanu Dey	Asstt. Prof.	Elect. Engg.	14-07-2014
78.	Sri Saptadip Saha	Asstt. Prof.	Elect. Engg.	11-07-2014
79.	Dr. Arup Ratan Bhowmik	Asstt. Prof.	Elect. Engg.	11-07-2014
80.	Dr. Nabamita Goswami	Asstt. Prof.	Elect. Engg.	11-07-2014
81.	Sri Bishop Debbarma	Asstt. Prof.	Prod. Engg.	24-08-2010
82.	Sri Sujay Chakraborty	Asstt. Prof.	Prod. Engg.	01-08-2011
83.	Ms. Pushparenu Bhattacharjee	Asstt. Prof.	Prod. Engg.	08-08-2013
84.	Sri Nabarun Biswas	Asstt. Prof.	Prod. Engg.	11-07-2014
85.	Sri Debashis Podder	Asstt. Prof.	Prod. Engg.	18-07-2014
86.	Sri Shiladitya Chakraborty	Teaching Asstt.	Electro. & Comm. Engg.	25-07-2008
87.	Sri Suvojit Acharjee	Asstt. Prof.	Electro. & Comm. Engg.	14-07-2014
88.	Dr. Priyanka Chowdhury	Asstt. Prof.	Electro. & Comm. Engg.	13-08-2014
89.	Ms. Anindita Goswami	Asstt. Prof.	Electro. & Comm. Engg.	20-08-2014
90.	Sri Apangshu Das	Asstt. Prof.	Electro. & Comm. Engg.	10-08-2012
91.	Sri Abhishek Nag	Asstt. Prof.	Electro. & Comm. Engg.	13-07-2015
92.	Sri Partha Kr. Deb	Asstt. Prof.	Electro. & Comm. Engg.	02-07-2015
93.	Sri Puspendu Bikash Saha	Asstt. Prof.	Electro. & Comm. Engg.	02-07-2015
94.	Ms. Smita Banik	Asstt. Prof.	Electro. & Comm. Engg.	22-08-2016
95.	Dr. Apurba Chakraborty	Asstt. Prof.	Electro. & Comm. Engg.	22-08-2016
96.	Mr. Debajyoti Datta	Asstt. Prof.	Electro. & Comm. Engg.	22-08-2016
97.	Dr. Subhojit Das	Asstt. Prof.	Chemistry Dept.	24-07-2014
98.	Dr. Manojit Roy	Asstt. Prof.	Chemistry Dept.	07-08-2014
99.	Dr. Rajarshi Banik (Roy)	Asstt. Prof.	Chemistry Dept.	20-01-2015
100.	Dr. Jhinuk De	Teaching Asstt.	Chemistry Dept.	12-01-2015
101.	Dr. Chitraniva Datta	Asstt. Prof.	Chemistry Dept.	03-08-2015
102.	Dr. Sajal Kundu	Asstt. Prof.	Chemistry Dept.	29-07-2015
103.	Dr. Manas Roy	Asstt. Prof.	Chemistry Dept.	26-08-2016
104.	Dr. Susanta Ghanta	Asstt. Prof.	Chemistry Dept.	22-08-2016

105.	Dr. Chanchal Bhowmik	Asstt. Prof.	Chemistry Dept.	22-08-2016
106.	Sri Bidhyasagar Debnath	Teaching Asstt.	Hum. & So. Sc.	04-08-2008
107.	Dr. Kaju Nath	Asstt.Prof.	Hum. & So. Sc.	24-07-2014
108.	Sri Nabendu Debnath	Teaching Asstt.	Hum. & So. Sc.	01-09-2014
109.	Dr. Anuradha Nongmaithem	Asstt.Prof.	Hum. & So. Sc.	25-07-2014
110.	Dr. Amit Bikram Chowdhury	Asstt. Prof.	Hum. & So. Sc.	22.08.2016
111.	Mr. Jayasree Tripura	Teaching Asstt.	Hum. & So. Sc.	07-07-2017
112.	Sri Prasenjit Ghorai	Asstt.Prof.	Electro. & Inst. Engg.	08-08-2011
113.	Ms.Priyanka Dey	Asstt. Prof.	Electro. & Inst. Engg.	13-08-2012
114.	Ms. Priyanka Roy Goswami	Asstt. Prof.	Electro. & Inst. Engg.	06-02-2012
115.	Sri Rupam Gupta Roy	Asstt. Prof.	Electro. & Inst. Engg.	11-07-2014
116.	Sri Rajesh Sharma	Asstt. Prof.	Electro. & Inst. Engg.	21-07-2014
117.	Ms.Pikaso Pal	Asstt. Prof.	Electro. & Inst. Engg.	11-07-2014
118.	Ms. Aparupa Kar	Asstt. Prof.	Electro. & Inst. Engg.	11-07-2014
119.	Dr.Dijendra Nath Roy	Asstt. Prof.	Bio-Engg.	28-01-2013
120.	Dr.Biswanath Bhunia	Asstt. Prof.	Bio-Engg.	04-03-2013
121.	Dr.Trident Kr.Bhowmik	Asstt. Prof.	Bio-Engg.	13-06-2013
122.	Dr.Sreerup Banerjee	Asstt. Prof.	Bio-Engg.	21-07-2014
123.	Dr.Deeplina Das	Asstt. Prof.	Bio-Engg.	21-07-2014
124.	Dr. Abhijit Chatterjee	Asstt. Prof.	Bio-Engg.	14-07-2015
125.	Ms. Hrijuta Datta	Asstt. Prof.	Bio-Engg.	10-07-2015
126.	Dr. Muthusivarampandian M	Asstt. Prof.	Bio-Engg.	10-07-2015
127.	Dr.Rajib Mallik	Asstt. Prof.	School of Management	22-05-2013
128.	Dr.Sonit Dutta	Asstt. Prof.	School of Management	23-05-2013
129.	Dr. Mili Kar	Asstt. Prof.	School of Management	07-08-2013
130.	Dr.Pradeep Kr.Behera	Asstt. Prof.	School of Management	21-07-2014
131.	Dr.Amlanbrata Chakraborty	Asstt. Prof.	School of Management	21-07-2014

3.3.3 List of employees - other than faculty members

3.3.3.1 Regular non-teaching staff of the institute

<i>Sl. No.</i>	<i>Name</i>	<i>Designation</i>	<i>Department/ Section</i>	<i>Date of Joining</i>
1.	Mr.Tanmoy Ghosal	Dy. Registrar (Admn)	Administration	07-09-2012
2.	Sri Suman Karmakar	Technical Assistant	Electrical Engg. Deptt	01-04-2006
3.	Sri Subhankar Chakma	Technical Assistant	Civil Engg. Dept.	01-04-2006
4.	Sri Jyoti Lal Debbarma	Stenographer (SG-II)	O/o the Director	01-04-2006
5.	Sri Sanjoy Deb Rupini	Sr. Assistant	Establishment Section	01-04-2006
6.	Sri Tarun Debbarma	Sr. Assistant	Stipend & Scholarship	01-04-2006
7.	Smt. Bakul Debbarma	Sr. Assistant	Estt. Section	01-04-2006
8.	Sri Sajal Kr. Dey	Sr. Assistant	Cash Section	01-04-2006
9.	Sri Pradip Kr. Majumder	Jr. Assistant	Academic Section	01-04-2006

10.	Sri Sukhen Saha	Jr. Assistant	Accounts Section	01-04-2006
11.	Sri Dharendra Debnath	Jr. Assistant	Library	01-04-2006
12.	Sri Dilip Kr. Ghosh	Sr. Technician	Workshop	01-04-2006
13.	Sri Sukhendu Debbarma	Sr. Technician	Elect. Engg.	01-04-2006
14.	Sri Nirmal Saha	Senior Cook	HoD (Civil)	01-04-2006
15.	Sri Bijan ch Debnath	Group - C	Civil Engg.	22-09-1980
16.	Sri Ratan Debnath	Group - C	Directors' Office	22-09-1980
17.	Sri Dhanu Rn.Saha	Group - C	Medical Unit	05-12-1980
18.	Sri Manik Chakraborty	Group - C	Civil Engg.	26-06-1982
19.	Sri Ratan Modi	Group - C	CSE Dept.	04-02-1981
20.	Sri Niranjana Ghosh	Group - C	Mech. Engg.	08-12-1980
21.	Sri Jahar Debnath	Group - C	Dean (P&D)	15-09-1987
22.	Smt. Brihalata Debbarma	Group - C	Civil Engg.	06-07-1992
23.	Smt. Uma Saha	Group - C	Exam. Sec.	31-07-1996
24.	Sri Dilip Debbarma	Group - C	Estt. Sec.	22-12-1990
25.	Smt. Sonalaxmi Debbarma	Group - C	Estt. Sec.	04-05-1998
26.	Sri Nepal Debnath	Group - C	Acad. Sec.	14-08-1997
27.	Sri Bishu Debbarma	Group - C	Prod. Engg.	17-05-1999
28.	Smt. Urmila Debbarma	Group - C	Estt. Sec.	18-01-2003

3.3.3.2 List of contractual non-teaching staff of the institute

Sl. No.	Name	Designation	Department/ Section	Date of Joining
1.	Sri Sajal Kr. Ganguly	P.S	O/o the Director	02-06-2008
2.	Sri Bidyut Kr. Ghosh	Jr. Assistant	O/o the Director	12-12-2008
3.	Smt. Shampa Pal (Bhowmik)	Jr. Assistant	O/o the Director	02-02-2010
4.	Sri Nabendra Nath Mukherjee	Admn. Officer	O/o the Registrar	12-03-2010
5.	Sri Tanumoy Paul	Jr. Assistant	O/o the Registrar	19-06-2006
6.	Smt. Sumitra Roy	Jr. Assistant	O/o the Registrar	12-12-2008
7.	Sri Sanjib Debbarma	Helper	O/o the Registrar	15-07-2009
8.	Mrs. Kaninika Banik	Receptionist	O/o the Registrar	11-11-2011
9.	Ms. Mamata Reang	P.R. Asstt.	O/o the OSD	19-09-2016
10.	Sri Jagat jyoti Roy	AR.(Finance)	Accounts Section	07-01-2014
11.	Sri Rajesh Kn. Majumder	Accountant	Accounts Section	21-11-2007
12.	Sri Dhruba Lal Banik	Accountant	Accounts Section	05-08-2011
13.	Ms Aparna Nath	Accountant	Accounts Section	18-08-2010
14.	Sri Dulal Ch. Das	U.D.C.	Accounts Section	07-05-2007
15.	Sri Akhil Debbarma	Accountant	Accounts Section	03-10-2016
16.	Sri Karna Kr. Sarkar	Office Asstt.	Accounts Section	18-08-2016
17.	Sri Narayan Banik	Sr. Asstt.	Accounts Section	03-01-2017
18.	Sri Kartik Ch. Debnath	Gr.-D	Accounts Section	01-05-2007
19.	Sri Manish Dey	Accountant	Accounts Section	03-02-2014
20.	Sri Shyamal Purakayastha	Audit Officer	Accounts Section	07-01-2014
21.	Sri Subrata Chakraborty	Audit officer	Accounts Section	05-12-2011
22.	Sri Jadulal Debnath	Section Officer	Estt. Section	02-09-2015

23.	Sri Benimadav Bhowmik	Sr. Asstt.	Estt. Section	03-10-2006
24.	Sri Pradip Rn. Deb	Sr. Assistant	Estt. Section	15-09-2015
25.	Sri Hari Sadhan Sen	Sr. Assistant	Estt. Section	11-09-2015
26.	Sri Kritisundar Saha	Office Assistant	Estt. Section	01-08-2013
27.	Sri kajal Bhattacharjee	Office Asstt.	Estt. Section	18-08-2016
28.	Sri Pradip Datta	Office Asstt.	Estt. Section	18-08-2016
29.	Sri Tapan Debnath	Technician	Estt. Section	10-06-2015
30.	Sri Milan Ch. Sarkar	Asstt. Reg.	Academic Sec.	03-08-2009
31.	Sri Kabir Deb	Jr. Assistant	Academic Sec.	04-06-2007
32.	Ms. Krishna Rani Deb	Jr. Assistant	Academic Sec.	21-06-2011
33.	Ms. Trishita Choudhury	P.R. Asstt.	Academic Sec.	26-10-2016
34.	Sri Sukdeb Chakraborty	Superintendent	Exam. Sec.	01-06-2007
35.	Ms. Payel Sarkar	Sr. Assistant	Exam. Sec.	05-07-2011
36.	Sri Sourav Mahajan	Jr. Assistant	Exam. Sec.	12-12-2008
37.	Sri Himangshu Paul	Section Officer(Pur)	Purchase Sec.	26-09-2011
38.	Sri Nabin Chandra Kundu	Lib. Asstt.	Purchase Sec.	01-04-2010
39.	Ms. Sudipta Pal	P.R. Asstt.	Purchase Sec.	01-05-2017
40.	Sri Partha Biswas	Estate Manager	Estate Section	12-12-2008
41.	Sri Jitendra Debnath	Sr. Assistant	Estate Section	03-03-2015
42.	Sri Ajit Saha	Attendant	Estate Section	04-12-2015
43.	Sri Rajesh Kr. Modak	Jr. Engineer	Estate Section	16-09-2011
44.	Sri Nakul Ch. Debnath	Plumber	Estate Section	01-05-2008
45.	Sri Sudhangshu Kr. Bhowmik	Plumber	Estate Section	04-11-2009
46.	Sri Sankar Debbarma	Work Asstt.	Estate Section	11-07-2009
47.	Sri Sanjib Chakraborty	Opt (Auditorium)	Estate Section	27-06-2011
48.	Sri Basab Kanti Bhattacharjee	Jr. Engineer (Civil)	Estate Section	03-09-2012
49.	Sri Rakesh Tripura	Mason	Estate Section	10-12-2012
50.	Sri Pradip Sutradhar	Carpenter	Estate Section	10-12-2012
51.	Sri Biswajit Das	Helper	Estate Section	10-12-2012
52.	Sri Sanjib Sarkar	Helper	Estate Section	10-12-2012
53.	Sri Milan Karmakar	Helper	Estate Section	10-12-2012
54.	Sri Paresh Ch.Das	A.E.E.	Estate Section	02-08-2013
55.	Sri Ranjan Roy Chowdhury	A.E.E.	Estate Section	02-08-2013
56.	Sri Narayan Ch.Saha	A.E.E.	Estate Section	
57.	Sri Dhruva Jyoti Sarkar	J.E.	Estate Section	25-06-2014
58.	Sri Manik Bhowmik	J.E.	Estate Section	23-06-2014
59.	Sri Bankim Ch. Pal	A.E.E.	Estate Section	13-06-2014
60.	Sri Bapan Debroy	A.E.E.	Estate Section	20-06-2014
61.	Sri Debu Debnath	Work Assistant	Estate Section	13-06-2014
63.	Sri Rajesh Sarkar	J.E.	Estate Section	16-12-2014
64.	Sri Rajkishor Sutradhar	J.E.	Estate Section	17-12-2014
65.	Sri Bimal Krishna Debnath	A.E.E.	Estate Section	02/09/2010
66.	Sri Sumit Debnath	J.E.	Estate Section	05-09-2014
67.	Sri Deep Majumder	J.E.	Estate Section	08-09-2014
68.	Sri Ranjit Sharma	Helper	Estate Section	09-11-2010
69.	Sri Rajib Chakraborty	Helper	Estate Section	09-11-2010

70.	Sri Chanki Paul	Helper	Estate Section	09-11-2010
71.	Sri Pradip Das	Electrician	Estate Section	01-12-2011
72.	Sri Arabinda Das	Electrician	Estate Section	01-12-2011
73.	Sri Sujit Debnath	Lineman	Estate Section	01-12-2011
74.	Sri Amar Krishna Saha	Helper	Estate Section	01-12-2011
75.	Sri Subir Namasudra	Helper	Estate Section	01-12-2011
76.	Sri Pabitra Shil	Electrician	Estate Section	08-08-2012
77.	Sri Krishan Debnath	Lineman	Estate Section	02-08-2012
78.	Sri Krishna Ch. Saha	Lineman	Estate Section	03-08-2012
79.	Sri Uttam Kr. Debnath	Lineman	Estate Section	07-08-2012
80.	Sri Parimal Debnath	Helper	Estate Section	03-08-2012
81.	Sri Biswajit Debbarma	Helper	Estate Section	03-08-2012
82.	Sri Rajib Deb	Helper	Estate Section	16-06-2014
83.	Sri Kamal Charan Debnath	Supervisor	Estate Section	16-06-2014
84.	Sri Matilal Tanti	Operator	Estate Section	16-06-2014
85.	Sri Manitosh Sarkar	Operator	Estate Section	16-06-2014
86.	Sri Sadhan Debnath	Operator	Estate Section	31-08-2016
87.	Sri Prasenjit Datta	Electrician	Estate Section	01-09-2016
88.	Sri Amit Debbarma	Electrician	Estate Section	01-09-2016
89.	Sri Dyanojyoti Kar	Accountant	TPO	15-09-2015
90.	Sri Litan Sarkar	Jr. Assistant	TPO	16-07-2010
91.	Ms. Jhuma Das	P.R. Asstt.	TPO	15-09-2016
92.	Sri Sukanta Goswami	Jr. Assistant	Dean (FW)	19-12-2008
93.	Sri Kanu Ranjan Roy	Sr. Librarian.	Library	01-09-2009
94.	Sri Anirban Sharma Roy	Lib. Asstt.	Library	30-01-2012
95.	Sri Dipankar Das	Jr. Assistant	Library	18-12-2008
96.	Ms. Atrayee Podder	Library Asstt.	Library	30-01-2012
97.	Sri Bidyut Choudhuri	Library Asstt.	Library	14-09-2015
98.	Ms. Purnima Singha	Library Asstt.	Library	14-09-2015
99.	Sri Kshitish Chakraborty	Office Asstt.	Library	16-08-2016
100.	Ms. Rupa Debnath	Library Asstt.	Library	24-09-2015
101.	Mrs. Tulshi Singha	P.R. Asstt.	Library	21-02-2017
102.	Ms. Jayeeta Paul	Library Asstt.	AA & IR Section	14-10-2015
103.	Sri Anupam Pal	Sports Officer	Dean (SW)	16-08-2007
104.	Sri Sukanta Ghoswami	Phy. Edu. Off.	Dean (SW)	16-08-2007
105.	Ms. Rumita Saha	Hostel Supervisor	Dean (SW)	01-08-2012
106.	Ms. Mahuya Biswas	Hostel Supervisor	Dean (SW)	10-02-2010
107.	Sri Ajoy Bhowmik	Hostel Supervisor	Dean (SW)	16-02-2010
108.	Sri Rabindra Das	Hostel Supervisor	Dean (SW)	10-02-2010
109.	Sri Sukrit Prasad Dutta	Hostel Supervisor	Dean (SW)	30-07-2012
110.	Sri Satyajit Das	Hostel Supervisor	Dean (SW)	30-07-2012
111.	Sri Prasanta Rn. Deb	Hostel Supervisor	Dean (SW)	08-07-2015
112.	Sri Kanu Kanta Deb	Office Asstt.	Dean (SW)	19-08-2016
113.	Sri Debashish Biswas	Foreman	Workshop	04-08-2008
114.	Sri Manojit Das	Foreman/Instructor	Workshop	18-09-2008
115.	Sri Koushik Debroy	Foreman	Workshop	01-01-2009
116.	Sri Debabrata Sen	Head Ins.	Workshop	01-01-2008

117.	Sri Arup taru Roy	Instructor	Workshop	19-08-2009
118.	Sri Ranju Kr. Singh	Instructor	Workshop	19-08-2009
119.	Sri Biswajit Debnath	Instructor	Workshop	19-08-2009
120.	Sri Jiban Chandra	Sr. Engine Operator	Workshop	19-03-2012
121.	Sri Basudeb Banik	Tech.	Workshop	22-12-2008
122.	Sri Sujit Kumar Bhowmik	Skilled Asstt.	Workshop	18-09-2008
123.	Sri Shubendu Debbarma	Jr. Tech.	Workshop	19-08-2009
124.	Sri Nikhil Ch. Karmakar	Gr.-D	Workshop	01-06-2007
125.	Sri Kishore Das	Lab. Asstt.	Mech. Engg.	25-08-2010
126.	Sri Pinku Saha	Lab. Asstt.	Mech. Engg.	26-08-2010
127.	Sri Bishnupada Das	Driver	Workshop	19-11-2008
128.	Sri Babul Ch. Deb	Driver	Workshop	16-07-2009
129.	Sri Gopal Ch. Das	Driver	Workshop	16-07-2009
130.	Sri Sajal Saha	Driver	Workshop	01-02-2011
131.	Sri Sachindra Ch. Das	Gr. D	Mech. Engg.	01-02-2009
132.	Sri Gautam Acharjee	Technician	Mech. Engg.	28-07-2015
133.	Sri Subrajit Sen	Technical Asstt.	Mech. Engg.	27-07-2015
134.	Sri Sandipan Deb	Technical Asstt.	Mech. Engg.	28-07-2015
135.	Sri Prasenjit Majumder	Technical Asstt.	Mech. Engg.	28-07-2015
136.	Sri Pabitra Acharjee	Technician	Mech. Engg.	08-09-2016
137.	Sri Sudip Debnath	Technical Asstt.	Mech. Engg.	26-08-2016
138.	Sri Hillol Mutsuddy	Technical Asstt.	Mech. Engg.	26-08-2016
139.	Sri Pulak Kr. De	Office Asstt.	Mech. Engg.	18-08-2016
140.	Sri Abhijit Giri	Technical Asstt	Civil Engg.	13-08-2010
141.	Sri Suman Nandi	Lab. Asstt.	Civil Engg.	10-08-2010
142.	Ms Manisha Deb	Lab. Asstt.	Civil Engg.	13-08-2010
143.	Sri Prasenjit Dutta	Technical Asstt	Civil Engg.	06-12-2012
144.	Sri Sankar Banik	Technical Asstt	Civil Engg.	13-12-2012
145.	Sri Uddhab Ch.Nath	Technical Asstt	Civil Engg.	28-07-2015
146.	Sri Riman Bhowmik	Technician	Civil Engg.	28-07-2015
147.	Sri Sukumar Sarkar	Office Asstt.	Civil Engg.	18-08-2016
148.	Sri Pramod Pal	Instructor	Production Engg.	04-09-2009
149.	Sri Biswanath Karmakar	Jr. Tech	Production Engg.	04-09-2009
150.	Sri.Raju Singha	Technical Asstt.	Production Engg.	08-09-2014
151.	Sri Sukanta Das	Technical Asstt.	Production Engg.	08-09-2014
152.	Sri Vishal Paul	Technician	Production Engg.	08-09-2014
153.	Sri Prasenjit Debnath	Technician	Production Engg.	08-09-2014
154.	Sri Subhan Ch. Deb	Attendant	Production Engg.	15-02-2016
155.	Ms. Puspoham Hrangkhawl	P.R. Asstt.	Production Engg.	21-02-2017
156.	Smt. Sima Das	Sr. Ins.	Elect. Engg.	19-08-2009
157.	Smt. Tapa Saha	Tech.Supp. Staff	Elect. Engg.	25-07-2008
158.	Sri Kabir Bhowmik	Sr. Ins.	Elect. Engg.	19-08-2009
159.	Sri Ajit Deb	Lab. Tech	Elect. Engg.	19-08-2009
160.	Sri Debabrata Bhattacharya	Technical Asstt	Elect. Engg.	09-08-2010
161.	Sri Jayanta Chowdhury	Technical Asstt	Elect. Engg.	10-07-2012
162.	Sri Pranab Majumder	Technical Asstt	Elect. Engg.	16-07-2012
163.	Sri Debanjan Nag	Technical Asstt.	Elect. Engg.	28-07-2015

164.	Ms. Sudipa Aine	Technical Asstt.	Elect. Engg.	30-07-2015
165.	Sri Subal Das	Technical Asstt.	Elect. Engg.	31-07-2015
166.	Sri Balaram Das	Technical Asstt.	Elect. Engg.	30-07-2015
167.	Sri Rajkishore Ghosh	Attendant	Elect. Engg.	01-08-2016
168.	Ms. Ankita Pal	P.R. Asstt	Elect. Engg.	23-12-2016
169.	Sri Kamal Kn. Pal	System Admin.	CSE Deptt.	15-12-2008
170.	Sri Partha Sarathi Bhattacharjee	Network Admin.	CSE Deptt.	15-09-2011
171.	Sri Suman Saha	Lab / Tech Assistant	CSE Deptt..	09-08-2010
172.	Sri Viki Datta	Lab / Tech Assistant	CSE Deptt.	14-09-2011
173.	Sri Malay Paul	Lab / Tech Assistant	CSE Deptt.	13-03-2012
174.	Sri Saikat Bhattacharjee	Lab / Tech Asstt	CSE Deptt.	29-07-2015
175.	Sri Sanjoy Podder	Lab / Tech Assistant	CSE Deptt.	29-07-2015
176.	Sri Dhurjati Chakraborty	Lab / Tech Assistant	CSE Deptt.	29-07-2015
177.	Sri Joydip Deb	Lab / Tech Assistant	CSE Deptt.	29-07-2015
178.	Sri Rabindra Ch. Das	Gr. D	CSE Deptt.	20-04-2009
179.	Sri Dilip Goswami	Office Asstt.	CSE Deptt.	18-08-2016
180.	Sri Ardhendu Gupta	Technical Asstt.	CSE Deptt.	23-08-2016
181.	Sri Susanta Pal	Technical Asstt.	CSE Deptt.	23-08-2016
182.	Ms. Mandira Bhowmik	Technical Asstt.	CSE Deptt..	22-09-2016
183.	Sri Rajib Debnath	Technical Asstt. (Network)	CSE Deptt.	28-09-2016
184.	Sri Pramatha Acharjee	Technical Asstt. (Network)	CSE Deptt.	25-10-2016
185.	Sri Dhruba Narayan Das	Technical Asstt.	Chemical Engg.	09-08-2010
186.	Sri Dipankar Goswami	Technical Asstt.	Chemical Engg.	06-09-2011
187.	Sri Joydeep Das	Technical Asstt.	Chemical Engg.	28-07-2015
188.	Sri Kaushik Das	Technical Asstt.	Chemical Engg.	28-07-2015
189.	Sri Mrinmoy Sarma	Technical Asstt.	Chemical Engg.	28-07-2015
190.	Ms. Sangita Patari	Lab. Asstt.	Physics	22-09-2011
191.	Sri Pijush Kn. Datta	Lab. Asstt.	Physics	03-08-2009
192.	Mrs. Madhuri Debnath	Lab. Asstt.	Physics	17-07-2013
193.	Mr. Krishna Deb	Lab. Asstt.	Physics	17-07-2013
194.	Sri Sarit Chakraborty	Lab. Asstt.	Physics	29-07-2015
195.	Sri Rajesh Debnath	Lab. Asstt.	Physics	29-07-2015
196.	Sri Dulal Chakraborty	Group – D	Chemistry	01-01-2011
197.	Sri Satyajit Ghosh	Lab, Asstt.	Chemistry	07-09-2012
198.	Sri Sudip Paul	Lab, Asstt.	Chemistry	31-07-2015
199.	Sri Himadri Paul	Lab, Asstt.	Chemistry	29-07-2015
200.	Sri Nitish Ranjan Nath	Lab. Asstt.	Chemistry	22-08-2016
201.	Mrs. Sarbani Das	Lab. Asstt.	Math.	20-07-2017

	(Bhattacharjee)			
202.	Ms. Poulami Ghosh	Tech. Asstt.	ECE	09-12-2011
203.	Sri Dipesh Debnath	Technician	ECE	02-01-2012
204.	Sri Abhijit Chakraborty	Tech. Asstt.	ECE	10-08-2010
205.	Sri Jagadish Ch. Bhowmik	Technician	ECE	25-07-2014
206.	Sri Badal Debnath	Technical Asstt.	ECE	27-07-2015
207.	Mrs. Poulomi Dey	Technical Asstt.	ECE	27-07-2015
208.	Sri Raju Majumder	Technical Asstt.	ECE	27-07-2015
209.	Sri Sanjib Das	Technician	ECE	27-07-2015
210.	Sri Nirmal Sarkar	Technician	ECE	27-07-2015
211.	Sri Alvin Debbarma	Technical Asstt.	ECE	27-07-2015
212.	Sri Hriday Ranjan Lodh	Technical Asstt.	ECE	22-08-2016
213.	Sri Susovan Ghosh	Technical Asstt.	ECE	23-08-2016
214.	Sri Prasenjit Paul	Technician	ECE	22-08-2016
215.	Sri Anjan Das	Technical Asstt.	EIE	06-02-2012
216.	Ms. Sunam Jannat	Lab. Technician	EIE	14-08-2012
217.	Sri Samir Rajuyar	Technician	EIE	28-07-2015
218.	Sri Dilip Biswasarma	Technical Asstt.	EIE	22-08-2016
219.	Sri Suraj Das	Technical Asstt.	EIE	03-07-2017
220.	Sri Kailash Pratim Phukan	Technical Asstt.	EIE	04-07-2017
221.	Dr. Tapan Kr. Datta	Medical Off.	Medical Unit	22-01-2009
222.	Dr. Parimal Chakraborty	Medical Off.	Medical Unit	01-02-2012
223.	Dr. Amal Kumar Sinha	Medical Off.	Medical Unit	12-12-2013
224.	Dr. Prabal Bhowmik	Medical Off.	Medical Unit	08-05-2017
225.	Dr. Babul Kanti Saha	Medical Officer	Medical Unit	14-06-2017
226.	Sri Rajesh Karmakar	Pharmacist	Medical Unit	17-04-2008
227.	Ms. Supriya Das	Pharmacist	Medical Unit	27-09-2012
228.	Sri Dipen Majumder	Technician	Medical Unit	22-12-2008
229.	Mr. Rajat Saha	GDA cum Dresser	Medical Unit	04-03-2015
230.	Ms. Chayanika Das	Lab. Technician	Medical Unit	06-01-2014
231.	Sri Subrata Das	Staff Nurse (M)	Medical Unit	07-12-2016
232.	Ms. Satabdi Das	Nurse (Female)	Medical Unit	14-06-2017
233.	Sri Dipak Kr. Paul	Security Officer	Admn.	19-08-2011
234.	Sri Sanjit Debbarma	Helper	Guest House	15-07-2009
235.	Sri Sanjoy Ghosh	Supervisor	Guest House	05-09-2014
236.	Smt. Sulekha Sarkar	Cook	Transit House	06-05-2011
237.	Mrs. Sanju Debnath	Draftsman	Dean (P&D)	12-12-2008
238.	Sri Suman Rudra Pal	Off. Asstt.	Dean (P&D)	19-08-2008
239.	Sri Bappi Das	Helper/Cook	Transit camp	01-02-2011
240.	Sri Ritabrata Roy	Technical Asstt.	Technical Asstt.	02-08-2012
241.	Ms. Subhra Chowdhury	Technical Asstt.	Bio-Engg.	24-12-2012
242.	Sri Anojit Debbarma	Technician	Bio-Engg.	23-08-016
243.	Sri V.C. Mathai	Technical Asstt.	MHRD	12-11-2009
244.	Sri Sourabh Roy	Tech. Asstt.	Virtual Class Room	14-03-2014
245.	Sri Ratan Majumder	Accounts Asstt. (TEQIP)	TEQIP	10-12-2012

246.	Ms.Baishakhi Saha	Tech. Support Staff	MIS Opt.	20-05-2013
247.	Sri Sujoy Dey	Office Assistant	TEQIP	16-06-2014
248.	Sri Pramathesh Banik	Asst. Programmer (Technician)	MIS Section	03-11-2014
249.	Sri Sandanlal Saha	Cook-cum- Caretaker	Director's resi.	15-03-2016
250.	Ms. Baishaki Debbarma	P.R. Asstt.	SC/ST Cell	02-12-2016
251.	Sri Nirmal Debbarma	Security Guard	Director's PG	02-02-2017

3.3.3.3 List of Faculty/ Officers/ Staff on Long Leave

Sl. No.	Name	Designation	Department	Duration	Nature of Leave
1.	Mr Sumanta Chakrabarti	Dy. Registrar	Administration	2 years	On lien

3.3.3.4 List of Retired/ Expired Faculty/ Staff Members

Sl. No.	Name	Designation	Department	Date of Expire/ retire
1.	Sri Akhil Debbarma	Accountant	Accounts Section	31-09-2016
2.	Sri Pabitra Acharjee	Technician	Mechanical Sec.	31-08-2016
3.	Sri Narayan Ch, Banik	Sr. Assistant	Accounts Section	31-12-2016

3.4 RTI and Vigilance Cell:

The Institute has an RTI Cell under the Appellate Authority of the Director, NIT Agartala. Dr. Rajsekhar Panua, Associate Professor is the Central Public Information Officer. Dr. Paritosh Bhattacharya is CVO (Chief Vigilance Officer) of the Institute.

4.0 ACADEMIC PROGRAMMES AND AWARD OF DEGREES

4.1 Introduction :

The Institute (i.e. erstwhile Tripura Engineering College) was established in 1965 with three branches in UG level viz Civil, Electrical and Mechanical Engineering. It was initially affiliated to Calcutta University and had the same curriculum structure and examination system of Bengal Engineering College, like other institutes affiliated to the University. After the establishment of Tripura University, the institute got affiliated to the new Tripura University. Degree course in Computer Science & Engineering was started in 1999-2000 Academic Session. Three new branches viz. Electrical & Electronics engineering (now Electronics & Communication Engineering), Production Engineering and Civil & Transportation Engineering were introduced in this Institute during 2005-2006 session. Two more new courses viz. Electronics & Instrumentation and Chemical Engineering were also introduced in undergraduate level from the Academic Session 2010-11. From the Academic Session 2012-13 Bio Engineering at the undergraduate level has been started in the Institute.

The Institute is administered by the Director of the Institute under the direct supervision of the Board of Governors (BoG) of the Institute, headed by the Chairman as the Institute is registered under Societies Registration Act, 1860. The policies of academic activity are determined by the SENATE of the Institute with prior approval of the Board of Governors (BoG) and implemented through Dean(Academic). The Planning and Development of the institute are implemented through Dean (P&D). All the student related affairs are looked after by the Dean (SW). The Registrar of the Institute is the custodian of all records of the Institute. All administrative order/notifications are issued by the Registrar. The Registrar is responsible to the Director for proper implementation of all the policies of the Institute.

This new National Institute of Technology has taken up development programme in a massive scale. These development activities have been going on for the last 9 years. The developmental works include modernization of the Laboratories, augmentation of computer facilities, modernization of Library, construction of boys' & girls' Hostel, construction of Academic and Administrative building, construction of building of Kendriya Vidyalaya, construction of Guest House & Director's Bungalow, construction of staff quarters, renovation of Auditorium, construction of internal roads and Institute gates, Computer Science & Engineering Building, Library Building etc. Further presently a 1500 capacity Hostel Building, Sports Complex have been taken up for the construction and the works are progressing fast. Apart from this continuing education cell, national level research Centre in selected areas like Geo-technology and Information Technology and energy sectors have been established. Industry Institute Linkage has been revamped for catering to the needs of industrialization of the region at large and the State in particular.

A Master Plan has already been prepared for total infrastructural development of the institute so that the institute may have the facilities of international standard.

The Institute, which is an Institute of national importance and a centre of excellence has a total intake of 867 at undergraduate level. A total number of 121 seats at the undergraduate level have been earmarked for the candidates to be admitted under Direct

Admission of Students Abroad (DASA) scheme. Out of the total seats of B.Tech 50% seats are reserved for the candidates of Tripura and the remaining 50% of seats are for the candidates from the other states of India. The candidates who qualifying Joint Entrance Examination (JEE)-Main conducted by CBSE are admitted to this Institute as per seat allotment by Central Seat Allocation Board (CSAB).

4.2 Admission Procedure :

Admission in the undergraduate programme is made on the basis of allotment of seats in the (9) branches of Engineering along with dual degree programme in engineering and science through Central Seat Allocation Board (CSAB) based on the performance of the candidates in Joint Entrance Examination (JEE)-Main.

Students are admitted in undergraduate under Home State and All India quota. In M.Tech candidates are admitted as per allotment of seats under common counseling on the basis of result in GATE Examination. Candidates are also admitted in M.Tech against the vacant seats on the basis of a test conducted by the Institute.

In MCA candidates are admitted as per allotment of seats by NIMCET based on the performance of the candidates in the NIMCET Examination conducted for the purpose.

In M.Sc in Physics, Chemistry and Mathematics eligible candidates are admitted on the basis of a test conducted by the Institute for the purpose of selection.

Candidates are admitted in MBA programme as per selection made by the Institute on the basis of performance of the candidates in the qualifying examination like CAT, CMAT.

Candidates of Ph.D are admitted based on their performance in the test (written or oral) conducted by the Institute for selection.

4.3 Admission 2016-2017 :

Table 1 – Fresh Admission

Sl. No.	Dept	B. Tech	BSMS	BTMT	M. Tech	MCA	MBA	M. Sc	Ph. D
1	Civil	152	-	-	69	-	-	-	19
2	Mechanical	77	-	-	44	-	-	-	20
3	Electrical	76	-	-	42	-	-	-	05
4	CSE	82	-	-	09	-	-	-	04
5	ECE	79	-	-	24	-	-	-	02
6	Production	56	-	-	--	-	-	-	01
7	Chemical	40	-	-	06	-	-	-	04
8	EIE	43	-	-	01	-	-	-	06
9	BIO-Eng	15	-	-	--	-	-	-	-
10	Physics	-	09	-	-	-	-	07	06
11	Chemistry	-	06	-	-	-	-	08	04
12	Mathematics	-	12	-	-	-	-	08	05
13	Eng Physics	-	-	09	-	-	-	-	03
14	MCA	-	-	-	-	13		-	-

15	MBA	-	-	-	-	-	27	-	02
Total		620	27	09	195	13	27	23	81

Note: CSE-Computer Science and Engineering, ECE- Electronics and Communication Engineering, EIE- Electronics and Instrumentation Engineering, Eng Physics- Engineering Physics.

Total No. of students admitted during the year includes the following:

Schedule Caste	106(in UG) 48 (in PG and Ph.D)	QIP	M.Tech	00
Schedule Tribes	131(in UG) 18 (in PG and Ph.D)		Ph.D	00
Physically Handicapped	10 (in UG) 03 (in PG and Ph.D)	Sponsored	M.Tech	00
Women students	136 (in UG) 51 (in PG and Ph.D)	Project	Ph.D	00
Total	383(in UG) 120 (in PG and Ph.D)	External Registration	Ph.D	00

4.4 Course-wise enrollment with Sex and Caste break-up:

Table 2 – Admitted students in B. Tech, 1st Semester

		CE	ME	EE	CSE	ECE	EIE	CHE	PE	BIO
From the State of Tripura:										
OP	Boys	28	23	14	11	15	09	08	16	01
	Girls	18	00	09	08	08	06	08	06	04
	Total	46	23	23	19	23	15	16	22	05
OPPH	Boys	00	00	00	01	00	00	00	00	00
	Girls	00	00	00	00	00	00	00	00	00
	Total	00	00	00	01	00	00	00	00	00
SC	Boys	11	06	06	07	05	04	04	04	02
	Girls	03	01	01	01	02	01	00	02	00
	Total	14	07	07	08	07	05	04	06	02
SCPH	Boys	00	00	00	00	00	00	00	00	00
	Girls	00	00	00	00	00	00	00	00	00
	Total	00	00	00	00	00	00	00	00	00
ST	Boys	18	12	07	10	05	05	01	03	01
	Girls	10	01	06	04	08	02	02	01	03
	Total	28	13	13	14	13	07	03	04	04
STPH	Boys	00	00	00	00	00	00	00	00	00
	Girls	00	00	00	00	00	00	00	00	00
	Total	00	00	00	00	00	00	00	00	00

From the various part of the country except the State of Tripura										
OP	Boys	28	15	15	17	10	08	04	11	02
	Girls	00	02	03	01	03	01	03	01	00
	Total	28	17	18	18	13	09	07	12	02
OPPH	Boys	03	00	00	01	00	00	01	00	00
	Girls	00	01	00	00	00	00	00	00	00
	Total	03	01	00	01	00	00	01	00	00
SC	Boys	06	05	03	06	07	02	03	03	00
	Girls	02	00	01	01	00	00	00	00	00
	Total	08	05	04	07	07	02	03	03	00
SCPH	Boys	00	00	00	00	00	00	00	00	00
	Girls	00	00	00	00	00	00	00	00	00
	Total	00	00	00	00	00	00	00	00	00
ST	Boys	06	02	02	03	04	01	02	03	00
	Girls	00	00	01	00	00	00	01	00	00
	Total	06	02	03	03	04	01	03	03	00
STPH	Boys	00	00	00	00	00	00	00	00	00
	Girls	00	00	00	00	00	00	00	00	00
	Total	00	00	00	00	00	00	00	00	00
OBC	Boys	19	09	07	11	12	04	03	04	01
	Girls	00	00	00	00	00	00	00	01	00
	Total	19	09	07	11	12	04	03	05	01
OBCPH	Boys	00	00	00	00	00	00	00	01	01
	Girls	00	00	01	00	00	00	00	00	00
	Total	00	00	01	00	00	00	00	01	01
Total intake capacity		184	90	90	90	92	61	60	90	30
Total admitted		152	77	76	82	79	43	40	56	15
Total vacant		32	13	14	08	13	18	20	34	15

Table 3 – Admitted students in M. Tech 1st Semester

		CE	ME	EE	CSE	EC	PE	CH
OP	Boys	55	36	31	7	16	8	1
	Girls	8	1	5	3	4	0	0
	Total	63	37	36	10	20	8	1
OBC	Boys	10	10	9	0	4	0	0
	Girls	1	1	0	0	1	0	0
	Total	11	11	9	0	5	0	0
	Boys	13	7	3	1	2	1	0

SC	Girls	0	0	2	0	1	0	0
	Total	13	7	5	1	3	1	0
ST	Boys	3	1	3	1	0	0	0
	Girls	0	0	1	0	2	0	0
	Total	3	1	4	1	2	0	0
Total intake capacity		110	56	64	18	36	18	10
Total admitted		69	44	42	9	24	6	1
Total vacant		41	12	22	9	12	12	9

Table 4 – Admitted students in BSMS, BTMT, M. Sc, MCA and MBA 1st Semester

	OP		OBC		SC		ST		Total Intake Capacity	Total Admitted	Total Vacant
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls			
	From the State of Tripura:								60	27	33
BS MS	04	07			03	01	02	02			
	From the various part of the country except the State of Tripura										
	03		01		02		02				
BT MT	From the State of Tripura:								20	09	11
	05										
	From the various part of the country except the State of Tripura										
	01		01		01		01				

Table 4. A– Admitted students in M. Sc, MCA and MBA 1st Semester

		M. Sc. (Phy.)	M. Sc. (Chem.)	M. Sc. (Math.)	MCA	MBA
OP	Boys	5	2	6	5	11
	Girls	0	2	0	2	4
	Total	5	4	6	7	15
OBC	Boys	2	3	1	5	5
	Girls	0	0	1	0	2
	Total	2	3	2	5	7
SC	Boys	0	0	0	1	2
	Girls	0	1	0	0	2
	Total	0	1	0	1	4
ST	Boys	0	0	0	0	1
	Girls	0	0	0	0	0
	Total	0	0	0	0	1
Total intake capacity		10	10	10	40	30
Total admitted		7	8	8	13	27
Total vacant		3	2	2	27	3

Table 5 – Admission statistics : UG Programme: Course-wise

Sl. No.	Name of the state	CE			ME			EE			CSE			ECE			EIE			CHE			PE			BIO			BS-MS (CHEM)			BS-MS (PHY)			BS-MS (MATH)			BT-MT (PHY)			TOT AL
		M	F	To tal	M	F	To tal	M	F	To tal	M	F	To tal	M	F	To tal	M	F	To tal	M	F	To tal	M	F	To tal	M	F	To tal	M	F	To tal	M	F	Tota l							
1	AP	3	1	4	3	0	3	4	0	4	7	1	8	12	2	14	3	0	3	3	0	3	3	0	3	0	0	0	0	0	0	0	0	1	0	1	0	0	0	43	
2	ARP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1		
3	AS	0	0	0	1	0	1	0	1	1	0	0	0	1	0	1	0	0	0	0	2	2	1	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	7		
4	BH	19	0	19	4	0	4	9	2	11	4	0	4	6	1	7	1	1	2	1	0	1	8	1	9	1	0	1	0	0	0	0	0	0	3	0	3	0	0	0	61
5	DL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
6	GJ	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
7	HR	1	0	1	1	0	1	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5		
8	JR	2	0	2	0	0	0	0	0	0	1	0	1	1	0	1	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	7		
9	J&K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1			
10	KL	0	0	0	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
11	MN	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
12	MH	0	0	0	1	1	2	0	2	2	1	0	1	0	0	0	1	0	1	1	1	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	10	
13	MP	1	0	1	2	0	2	1	0	1	2	0	2	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
14	MG	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
15	NG	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
16	OD	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
17	PB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
18	RJ	9	0	9	3	1	4	4	1	5	4	1	5	0	0	0	1	0	1	3	0	3	1	0	1	1	0	1	0	0	0	0	0	0	0	2	0	2	31		
19	TN	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
20	TE	3	0	3	2	0	2	0	0	0	3	0	3	7	1	8	0	0	0	1	0	1	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	
21	TR	57	31	88	41	2	43	27	16	43	29	13	42	25	18	43	18	9	27	13	10	23	23	9	32	4	7	11	3	3	6	3	4	7	3	3	6	5	0	5	376
22	UP	20	1	21	10	1	11	7	0	7	12	0	12	2	1	3	5	0	5	2	0	2	4	1	5	1	0	1	0	0	0	0	0	1	0	1	0	0	0	68	
23	UR	2	0	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
24	WB	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
Grand Total		119	33	152	72	5	77	54	22	76	67	15	82	56	23	79	33	10	43	26	14	40	45	11	56	8	7	15	3	3	6	5	4	9	9	3	12	9	0	9	656
AP=Andhrapradesh,ARP=Arunachal Pradesh, AS=Assam, BH=Bihar, CG=Chhattisgarh, DL=Delhi,GJ=Gujarat, HR=Haryana, JR=Jharkhand, J&K=Jammu & Kashmir, KL=Kerla, MN=Manipur, MH=Maharashtra, MP=Madhya Pradesh, MG=Meghalaya, NG=Nagaland,PB=Punjab, RJ=Rajasthan, SK=Sikkim, TN=Tamil Nadu, TE=Telangana,TR=Tripura, UP=Uttar Pradesh, WB=West Bengal, UR=Uttarakhand, OD=Odisha																																									

4.5 Students/ Scholars Enrolment:

The total numbers of students on roll in various programmes of the Institute in the academic year 2016-2017 are given below:

TABLE 6 – Students on roll

Sl. No.	Department	B. Tech	BS-MS	BT-MT	MCA	MBA	Ph. D
1	Civil	649	-	-	-	-	-
2	Mechanical	353	-	-	-	-	-
3	Electrical	325	-	-	-	-	-
4	CSE	336	-	-	-	-	-
5	ECE	329	-	-	-	-	-
6	Production	219	-	-	-	-	-
7	Chemical	166	-	-	-	-	-
8	EIE	169	-	-	-	-	-
9	BIO-Eng	63	-	-	-	-	-
10	Physics	-	30	-	-	-	-
11	Chemistry	-	34	-	-	-	-
12	Mathematics	-	43	-	-	-	-
13	Eng Physics	-	-	44	-	-	
14	HSS	-	-	-	-	-	11
15	Computer Application	-	-	-	61	-	-
16	Business Administration	-	-	-	-	51	-
17	Ph.D	-	-	-	-	-	280
Total		2609	107	44	61	51	291

The above total includes the following:

DASA (Indian origin)	03	QIP	M. Tech.	00
Scheduled Castes	495		Ph. D.	00
Scheduled Tribes	435	Sponsored	M. Tech.	00
Physically Handicapped	31	Project	Ph. D.	00
Women students	485	External Registration	Ph. D.	00
Total		Registration Kept Alive	Ph. D.	00
		Part Time Programme (M. Tech.)		00

SC/ ST/ OBC/ OPPH Students on roll as on 31-03-2016:

Sl. No.	Programme	SC	ST	OBC	OPPH
1.	B. Tech.	469	416	699	10

2.	BS-MS	20	16	27	01
3	BT-MT	06	03	16	00
2.	MCA	05	02	21	00
3.	M. Tech.	49	18	61	00
4.	M. Sc.	02	00	14	00
5.	MBA	08	03	12	00
6.	Ph. D.	36	17	64	00
Total		595	475	914	11

The branch/ discipline-wise and year-wise details of students in B. Tech. and M. Tech. programmes are given below:

TABLE 7 – Students on roll at Undergraduate level

Sl. No.	Branch	2016	2015	2014	2013	2012	others
1	Civil Engineering	649	672	715	683	513	00
2	Mechanical Engineering	353	369	370	359	285	00
3	Electrical Engineering	325	338	358	334	226	00
4	Computer Sc. & Engg.	336	332	306	285	236	00
5	Electronics & Comm. Engineering	329	327	324	314	284	00
6	Transportation Engg	00	00	00	00	00	00
7	Production Engineering	219	233	239	165	115	00
8	Electronics & Inst.Engg.	169	181	184	198	100	00
9	Chemical Engineering	166	171	167	139	71	00
10	Bio Engineering	63	76	64	42	22	00
11	Physics(BS-MS)	30	23	16	5	00	00
12	Chemistry(BS-MS)	34	31	23	8	00	00
13	Math(BS-MS)	43	32	24	10	00	00
14	Engineering Physics(BT-MT)	44	35	29	14	00	00
	Total	2760	2820	2819	2556	1852	00

TABLE 8 – Students on roll at Post Graduate level

Sl. No.	Department	Specialization	2016-17	2015-16	Total
01.	Civil Engineering Department	Geotechnical Engineering	18	22	40
		Structural Engineering	30	33	63
		Environmental Engineering	17	22	39
		Transportation Engineering	25	29	54
		Water Resources Engineering	8	14	22
		Seismic Science & Engineering	8	11	19
		Hydro Informatics Engineering	14	20	34
02.	Mechanical Engineering Department	Thermal Science & Engineering	31	32	63
		Manufacturing Technology	27	28	55
		Machine Design	12	12	24
		Automotive Engineering	14	12	26
03.	Electrical Engineering	Power Electronics & Drives	22	24	46
		Power System Engineering	23	28	51
		Instrumentation Engineering	18	23	41
		Integrated Energy System	9	12	21
04.	Computer Sc. & Engineering	Computer Sc. & Engineering	19	21	40
05.	Electronics & Comm. Engg.	VLSI Design	23	28	51
		Communication Engineering	26	31	57
06.	Production Engg.	Computer integrated manufacturing	12	16	28
07.	Chemical Engg.	Chemical Engg.	01	08	09
08.	M. Sc.	Physics	22	15	37
		Chemistry	24	16	40
		Mathematics	18	10	28
09.	MBA	MBA	51	41	92
10	MCA	MCA	61	48	109

4.6 Examination & Evaluation :

Evaluation of the performance of the students is regarded as the most important academic activity in any educational institution. In NIT Agartala evaluation of the students is made by both written examination and viva-voce test.

Apart from this the performance of the students is also evaluated through internal assessment. In every semester one Mid-Term and End-Term examination are conducted. This apart, class tests and viva-voce test for all subjects are also taken.

Marks are awarded to the students in each subject and on the basis of that Semester Performance Index (SPI) is calculated. Taking the result of both Mid-Term and End-Term Examination Cumulative Performance Index (CPI/CGPA) is calculated.

In brief the performance of a student is evaluated through written examination, class test, viva-voce test, practical examination, attendance and above all the behavior of the students.

4.7 Course Offered

Table-9 No of Courses Offered

Sl. No.	Programme	Total No of Branches/ Specialization
1	B.Tech	09
2	BT-MT	01
3	BS-MS	03
4	M.Tech	20
5	MCA	01
6	MBA	03
7.	M.Sc	03
8.	Ph.D	11

4.8 Convocation :

The National Institute of Technology Agartala organizes its 9th Convocation on 12th November 2016. Dr. Sandeep Sancheti, President (Vice Chancellor) of Manipal University, Jaipur, adorned the 9th Convocation Ceremony as a Chief Guest.

In the 9th Convocation, Institute awarded B. Tech. Degree to a total number of 646 students. Branch wise results are given as under:-

Civil Engineering: 21 students passed with Distinction, 92 passed with First class and 36 with Second class.

Mechanical Engineering: 30 students passed with Distinction, 59 students passed with First class and 04 with second class.

Electrical Engineering: 08 students passed with Distinction, 64 students passed with First class and 11 with Second class.

Computer Science & Engineering: 08 students passed with Distinction, 61 students passed with First class and 07 with second class.

Electronics and Communication Engineering: 14 students passed with Distinction, 48 students passed with First class and 10 with Second class.

Electronics and Instrumentation Engineering: 04 students passed with Distinction, and rest 37 students passed with First class and 09 with Second class.

Production Engineering: 03 students passed with Distinction, 51 students passed with First class and 06 student passed with Second class.

Chemical Engineering: 06 students passed with Distinction, 34 students passed with First class 02 student passed with Second class.

Bio Engineering: 02 students passed with Distinction, 18 students passed with First class 01 student passed with Second class.

M. Tech Degree was awarded to a total number of 243 students in the 9th convocation.

Branch wise results are given as under:- Civil Engineering: 93 students passed. Mechanical Engineering: 48 students passed. Electrical Engineering:43 students passed. Computer Sc. & Engineering:12 students passed. Electronics & Communication Engineering:34 students passed. Production Engineering: 07 students passed Chemical Engineering: 06 students passed.

M. Sc Degree was awarded to a total number of 20 students in the 9th convocation.

Subject wise results are given as under:- Physics: 08 students passed. Chemistry:07 students passed. Mathematics: 05 students passed.

MCA Degree was awarded to a total number of 34 students.

MBA Degree was awarded to a total number of 15 students.

Institute awarded 26 scholars for Ph.D Degree - 13 in Engineering, 7 in Science and 2 in Arts in the 8th Convocation

4.8.1 Award of Prizes to the students:

TABLE 10 – Degree awarded

Sl. No.	Department	B. Tech	MCA	M. Tech.	M. Sc.	MBA	Ph. D.
1.	Civil Engineering	149	-	93	-	-	02
2.	Mechanical Engineering	93	-	48	-	-	06
3.	Electrical Engineering	83	-	43	-	-	03
4.	Computer Sc. & Engineering	76	-	12	-	-	
5.	Electronics & Comm. Engineering	72	-	34	-	-	07
6.	Production Engineering	60	-	07	-	-	-
7.	Electronics & Inst. Engineering	50	-	00	-	-	-

8.	Chemical Engineering	42	-	06	-	-	-
9.	Bio Engineering	21	-	-	-	-	-
10.	Physics	-	-	-	08	-	01
11.	Chemistry	-	-	-	07	-	01
12.	Math	-	-	-	05	-	05
13.	Computer Application	-	34	-	-	-	-
14.	Business Administration	-	-	-	-	15	-
15.	Humanities & Social Science	-	-	-	-	-	02
Total		646	34	243	20	15	27

With this convocation, the total number of degrees awarded so far by the Institute is 869 , the details of which are given below:

Sl. No.	Programme	No. of Students
01.	Ph. D.	26
02.	M. Tech.	243
03.	B. Tech.	646
04.	MCA	34
05.	M. Sc.	20
06.	MBA	15
Total		869

4.8.2 Convocation Prizes :

The following are the details of Prizes awarded to the students at the 9th Convocation:

Name of the Prize	Name of students/ persons	Branch Name
Gold Medal for Institute Topper (UNDER GRADUATE)	Sumit Kumar Bakshi	Civil Engineering
Gold Plated Silver Medal to Branch Toppers (UNDER GRADUATE)	Shibayan Roy Choudhury	Mechanical Engineering
	Aratrika Chakraborty	Electrical Engineering
	Sudhanshu Nandani	Computer Science & Engineering
	Ambuz Ankesh	Electronics & Communication Engineering
	Ruchi Sharma	Electronics & Instrumentation Engineering
	Sagar Sengupta	Production Engineering
	Shiva	Chemical Engineering
	Desh Deepak Yadav	Bio Engineering

Programme	Name of the Prize	Name of students/ Persons	Branch Name	Specialization
M.Tech	Gold Medal for Institute Topper (POST-GRADUATE)	Barun Routh	Civil Engineering	Structural Engineering
	Gold Plated Silver Medal to Branch Toppers (POST-GRADUATE)	Patil Ajay Vijay	Mechanical Engg	Thermal Science And Engineering
		Lalitha S	Electrical Engg	Power System
		Mitali Sinha	Computer Science & Engg	Computer Science & Engg
		Nitesh Tripathi	Electronics & Communication Engg.	VLSI & Nano Technology
		Pritam Dhar	Production Engg.	Computer Integrated Manufacturing
		Pathak Abhiraj Hemant	Chemical Engg.	Chemical Engg.
MCA	Gold Plated Silver Medal to Branch Toppers	Ankita Guleria	Computer Application	
MBA	Gold Plated Silver Medal to Branch Toppers	Arijita Debnath	Business Management	
M.Sc	Gold Plated Silver Medal to Branch Toppers	Nizam Uddin	Chemistry	
		Prathita Chakraborty	Physics	
		Sumitra Chakraborty	Mathematics	

5.0 BIO ENGINEERING DEPARTMENT

5.1 Introduction :

The department of Bio Engineering was started in the academic year of 2012-13 with sanctioned intake capacity of 30 (Thirty) students in the undergraduate level i.e. 4 years Bachelor of Technology (B. Tech Programme) in Bio Engineering to contribute the fascinating and emerging area of biological sciences. The department is committed to excellence in teaching, research and service to the Nation. Presently, Dr. Tarun Kanti Bandyopadhyay (Head, Bio Engineering) is supervising all the activities to ensure the progress of this department. The department has excellent facilities in terms of class rooms and UG laboratories. Within four years, the department has set up some important laboratory course viz., Biochemistry lab, Microbiology lab, Immunology Lab, Genetics Lab, Reaction Engineering Lab and Bioinformatics Lab. In future the department will also start M. Tech. and Ph. D programme. The academic staff of this department has various backgrounds in engineering. This is a reflection of the multidisciplinary and integrative approach in Bio Engineering research and education. The Department has framed the course curriculum based on the need of today's industries. The course includes Molecular Biology, Biochemical Engineering, Biosensors, Bio-Fluid Mechanics, Bioinformatics and Computational Biology, Tissue Engineering and Regenerative Medicine, Therapeutic Delivery Systems, Biomedical Imaging and Instrumentation, Drug Design and Development, Nano-Biotechnology, Bioprocess Engineering, Metabolic Engineering, and Biomechanics, etc. The undergraduate programme provides strong fundamental knowledge and practical based learning methodology in engineering and life sciences. It imparts training for students to make them competent, motivated engineers and scientists. This course offers a huge scope to the next generation students for their better career in India and abroad as well.



Biochemistry Lab



Students performing Immunology Lab



Students performing Biochemistry Lab



Students performing Microbiology Lab

5.2 Academic Programme:

The department offers courses in Under Graduate programme leading to B. Tech degree under Bio Engineering (4 years) from July 2012.

5.3 Lab Facilities:

The Bio-Engineering Department having Genetics, Immunology, Bioinformatics, Environmental Engineering, Mass Transfer, Biochemistry, Microbiology, Bioprocess Engineering, Reaction Engineering, Fluid Mechanics and Numerical Methods Laboratories.

5.4 Faculty and their Activities:

Short-Term Courses/ Workshops/ Seminar/ Symposia/ Conferences organized by the faculty members:

Sl. No.	Co-ordinators	Title	Period
Short Term Courses			
1.	Dr. Tarun Kanti Bandyopadhyay Dr. Tridib Kumar Bhowmick Dr. Biswanath Bhunia Dr. Sreerup Banerjee Dr. Muthusivaramapandian M Dr. Dijendra Nath Roy Ms. Hrijuta Datta Dr. Deeplina Das Dr. Abhijit Chatterjee	Teachers Training under Rastriya Aviskar Aviyan scheme, which would be conducted from at NIT Agartala.	16-20 th May, 2016
2.	Dr. Tridib Kumar Bhowmick Dr. Sreerup Banerjee Dr. Deeplina Das	Summer Training course conducted in the department of Bioengineering, NIT Agartala	23 rd May-1 st July, 2016
3.	Dr. Tridib Kumar Bhowmick Dr. Sreerup Banerjee Dr. Deeplina Das	Winter training course conducted in the department of Bioengineering, NIT Agartala	12-31 st December'2016
4.	Dr. Abhijit Chatterjee	GIAN course on "Sustainable water/ wastewater treatment: A global perspective"	23 rd Jan -1 st February, 2017
5.	Dr. Tridib Kumar Bhowmick	Seminar presented by Mr. Tarun Khurana "Importance of Patents and Relevance to Academic Institutions/Professionals"	28 th January, 2017
6.	Dr. Tarun Kanti Bandyopadhyay	Seminar presented by Prof. Binay Kanti Dutta	19 th May, 2017

	Dr. Tridib Kumar Bhowmick		
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Short-Term Courses/ Workshops/ Seminars/ Symposia/ Conferences/ Training attended by the Faculty in Academic Institutions and Public Sector Undertakings:

Sl. No.	Name of Faculty	Title	Period
Workshop:			
1.	Dr. Muthusivaramapandian M	“Academic Environment in Technical Education: Future Perspectives ”in NITA	16-17 th March, 2017
2.	Dr. Abhijit Chatterjee	“Academic Environment in Technical Education: Future Perspectives ”in NITA	16-17 th March, 2017
3.	Ms. Hrijuta Datta	“Academic Environment in Technical Education: Future Perspectives” in NITA	16-17 th March, 2017
4.	Dr. Tridib Kumar Bhowmick	Advanced Nanomaterials for Energy, Health and Sustainability in IIT Mandi.	3-6 th October, 2016
Short term Course:			
1.	Dr. Abhijit Chatterjee	"Advanced Treatment and Recycling of Urban and Industrial Waste-Water" at IIT Kharagpur.	6-10 th March, 2017
2.	Dr. Abhijit Chatterjee	TEQIP-II sponsored short term course "Recent Advancement in energy harvesting and water treatment technologies" at Jadavpur University	13-17 June, 2016
3.	Dr. Biswanath Bhunia	Attend TEQIP-II sponsored short term programme“EMERGING TRENDS OF WASTE MANAGEMENT AND VALORIZATION (ETWMV-2016)”organized by the Department of Chemical Engineering, National Institute of Technology Durgapur	8-12 th July, 2016

Fellowships of Academics and Professional Societies:

Sl. No.	Name of Faculty	Level	Year
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ISTE/ CSI and others			
1.	Dr. Dijendra Nath Roy	Corporate Life Member of Institute of Engineers (India)	2015
2.	Dr. Dijendra Nath Roy	Life Member of Indian Science Congress Association	2012
3.	Dr. Deeplina Das	Life Member LIFE MEMBER-(LM 1309), Biotech Research Society, India-(BRSI).	2013
4.	Dr. Deeplina Das	LIFE MEMBER-(LM 3228), Society of Biological Chemists India-(SBC).	2013
5.	Dr. Deeplina Das	Corporate Life Member of Institute of Engineers (India)-(IEI)	2014
6.	Dr. Tridib Kumar Bhowmick	Member of Institute of Engineers (India)-(IEI)	2015
7.	Dr. Biswanath Bhunia	Associate Member , Indian Institute of Chemical Engineers (IChE)	2011
8.	Dr. Biswanath Bhunia	Member, The Institution of Engineers (India)	2015
9.	Dr. Biswanath Bhunia	Chartered Engineer (India), The Institution of Engineers (India)	2015
10.	Dr. Tarun Kanti Bandyopadhyay	Member , Indian Institute of Chemical Engineers (IChE)	2015
11.	Dr. Sreerup Banerjee	Corporate Life Member of Institute of Engineers (India)	2015

5.5 Research and Consultancy:

Sponsored Research Projects:

Sl. No.	Title	Period	Funding Agency	Amount (in lakhs)	Co-ordinators
1.	The role of endocrine disrupting chemicals (EDCs) on estrogen receptors (Ers) using molecular docking	3 years	DST	17	Dr. Biswanath Bhunia, PI
2	Development of Biofilm Inhibitor	3yrs (2016-2019)	DST, Govt of India	18.15 Lakh	Dr. Dijendra Nath Roy (Principal Investigator)

Research Publications:

Total No. of papers published in Refereed International Journals	:	14
Total No. of papers presented in International Conferences	:	1

In Refereed International Journals:

1. Rwivoo Baruah, Deeplina Das and Arun Goyal (2016) Heteropolysaccharides from Lactic Acid Bacteria: Current Trends and Applications. *Journal of Probiotic Health*, 4:2 doi:10.4172/2329-8901.1000141
2. Basavaraj Palabhanvi, Muthusivaramapandian Muthuraj, Mayurketan Mukherjee, Vikram Kumar, Debasish Das (2016). Process engineering strategy for high cell density-lipid rich cultivation of *Chlorella* sp. FC2 IITG via model guided feeding recipe and substrate driven pH control. *Algal Research*. 16, 317-329. (IF: 5.014)

3. Basavaraj Palabhanvi, Muthusivaramapandian Muthuraj, Vikram Kumar, Mayurketan Mukherjee, Saumya Ahlawat, Debasish Das (2017) Continuous cultivation of lipid rich microalga *Chlorella* sp. FC2 IITG for improved biodiesel productivity via control variable optimization and substrate driven pH control. *Bioresource Technology*. 224, 481-489.
4. Mehak Kaushal, Saumya Ahlawat, Mayurketan Mukherjee, Muthusivaramapandian Muthuraj, Gargi Goswami, Debasish Das (2017) Substrate dependent modulation of butanol to ethanol ratio in non-acetone forming *Clostridium sporogenes* NCIM 2918. *Bioresource Technology* 225, 349-358.
5. Vineeta Rai, Muthusivaramapandian Muthuraj, Mayuri N Gandhi, Debasish Das, Sanjeeva Srivastava (2017) Real-time iTRAQ-based proteome profiling revealed the central metabolism involved in nitrogen starvation induced lipid accumulation in microalgae. *Scientific Reports*, 7.
6. Uday, US; Bandyopadhyay, TK and Bhunia B. Optimization of nutritional and physiochemical requirements on acidic xylanase production from *Aspergillus niger* KP874102.1. *Materials Today: Proceedings Journal*. 2016: 3(10), 3367–3374.
7. Apurba Dey, Biswanath Bhunia and Subhasish Dutta: Studies on the effect of agitation and aeration for the improved protease production by *Bacillus licheniformis* NCIM-2042. *Materials Today: Proceedings Journal*. 2016: 3 (10) 3444–3449.
8. Uday US, Bandyopadhyay TK, Saswata Goswami and Bhunia B. Optimization of physical and morphological regime for improved cellulase free xylanase production by fed batch fermentation using *Aspergillus niger* (KP874102.1) and its application in bio-bleaching. *Bioengineered*. 2017:8, 137-146
9. Partha Palit, Subhash C Mandal, Biswanath Bhunia. Total steroid and terpenoid enriched fraction from *Euphorbia neriifolia* Linn offers protection against nociceptive-pain, inflammation, and in vitro arthritis model: An insight of mechanistic study. *International Immunopharmacology*, 2016:41, 106–115
10. Uday US, Bandyopadhyay TK and Bhunia B. Rapid development of xylanase assay conditions using Taguchi methodology. *Bioengineered*. 2016: 7 (6): 424-431
11. Drugs of abuse and addiction: A slippery slope toward liver injury ,DN Roy, R Goswami *Chemico-biological interactions* 255, 92-105, 2016
12. The Insect repellents: A silent environmental chemical toxicant to the health DN Roy, R Goswami, A Pal *Environmental Toxicology and Pharmacology* 50, 91–102, 2017
13. Phytotoxicity of Ag nanoparticles prepared by biogenic and chemical methods R Choudhury, M Majumder, DN Roy, S Basumallick, TK Misra *International Nano Letters* 6 (3), 153-159, 2016
14. Nanomaterial and toxicity: what can proteomics tell us about the nanotoxicology? D Nath Roy, R Goswami, A Pal *Xenobiotica* 47 (7), 632–643, 2016

In Proceedings of International Conference:

Name of the Conference	Place of the Conference	Name of the participants	Date/ Duration
International Conference on Current Trends in Biotechnology 2016	VIT, Vellore	Payel Roy, Abhishek Mishra and Deeplina Das	8-10 th December, 2016

Distinguished Visitors to the Departments:

Sl. No.	Name of the Visitors and Designation	Date of Visit	Purpose of Visit
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1.	P.C. Rossin Prof. Arup K Sengupta, Dept of Civil & Environmental Engineering, Lehigh University, USA	23 rd January-1 st February, 2017	Invited speaker, GIAN programme organized by the department. He had interaction with HoD, faculties and students. He also had donated 1250 USD to encourage student research and cultural activities in NIT.
2.	Mr. Tarun Khurana (Patent Attorney- IP and Technology Consulting and Licensing Firm)	28 th January, 2017	Delivered a lecture on “Importance of Patents and Relevance to Academic Institutions/Professionals”
3.	Prof. K. V. Venkatesh, Department of Chemical Engineering, Indian Institute of Technology Bombay.	17 th April, 2017	Interaction with HoD and the faculty members of Bioengineering Department
3.	Prof B R Mehta, Dean IRD and Professor, Dept of Physics, IIT Delhi ,Prof S Zia Ahammad , Professor, Dept of Biochemical and BioTechnology.	19 th April, 2017	Interaction with the HoD and faculty members of Bioengineering Department.
4.	Dr. Prasanna B D, (Associate Professor, Dept. of Chemical Engineering, NIT Surathkal)	22-25 th April, 2017	External examiner for the “Grand Viva Voce” for the B.Tech students of batch 2013-2017. He also had interaction with the students and the faculty members of the department for potential collaborations. He gave suggestions for framing the revised syllabus.
5.	Prof. Binay Kanti Datta, former chairman of the West Bengal Pollution Control Board, Kolkata, India	19 th May, 2017	Interaction with the HoD, faculties and students.

5.6 Institute – Industry Collaboration :

1. Dr. Tarun Kanti Bandyopadhyay , HoD, Bio Engineering has taken an initiative to collaborate with Dr. Saswata Goswami, Scientist E, Center of Innovative and Applied Bioprocessing (CIAB), Mohali 160071, Punjab and CIAB, Mohali for several multiinstitute project.
2. Dr. Tarun Kanti Bandyopadhyay, HoD, Bio Engineering and Dr. Biswanath Bhunia, have also started to collaborate with Prof. Tamal Mandal, Professor, Department of Chemical Engineering, NIT Durgapur, India. One multi institute joint project proposal has been planed to submit to funding agency. One multi institute joint project proposal was already submitted to funding agency.
3. Dr. Tarunkanti Bandyopadhyay, HoD, Bio Engineering and Dr. Biswanath Bhunia, have also started to collaborate with Dr. O.N. Tiwari, Senior Scientist, ICAR-Indian

Agricultural Research Institute (IARI), India. One multi institute joint project proposal has been planed to submit to funding agency.

5.7 Industrial Consultancy and Sponsored Research :

There is no industrial consultancy in the department. However, one sponsored project is complted and two sponsored projects are going on in the department. In near future it is required to start industrial consultancy.

5.8 Other Activities :

Research Activities: The department of Bio Engineering is aiming vibrant research activity for technical development, especially in north east region of India. Still department of Bio Engineering has not started Doctor of Philosophy programme. However, faculties are actively engaged to supervise the Doctor of Philosophy scholar of other department of NIT Agartala or other Institute.

Student Activities:

- IEI Student Chapter namely Agartala NIT Students' Chapter (Bio) was set up at the Bio Engineering Department. The students are actively engaged.
- Students presented model and poster in "ADVAITAM, NIT Agartala, (Techno Cultural Fest) 10th -14th February, 2017.
- Placement for bioengineering students 83.3% of the students from the batch 2013-2017 were placed in various companies/organizations via on-campus placement process in which around 75% were placed in core companies.
- Five students of batch 2013-17 have cleared GATE exam of 2017.
- One of the B.tech final year students of batch 2013-17 have enrolled for MS program in IIT Delhi.
- Poster presentation by Payel Roy (2013-17), Abhishek Mishra(2013-17), under the guidance of Dr. Deeplina Das on "Exploring glucansucrase producing ability of indigenous lactic acid bacteria from Tripura"

Training:

The department has already taken initiative for training of the students in several Industries, Research Lab, IIT and NIT Etc.

The department have started organizing training program. The details are tabulated below:

Training	Dates	Number of participants	Institutes of participants
Summer 2016	23 rd May-24 th June, 2016	5	ITM University, Gwalior KIIT, Bhubaneswar Amity University, Noida
Winter 2017	12-30 th December, 2016	6	Nagaland University, Dimapur Sathyabama University, Chennai

6.0 CIVIL ENGINEERING DEPARTMENT

6.1 Introduction:

The Department of Civil Engineering was started since the inception of the institute in 1965. Initially the institute was affiliated to University of Calcutta and there after re-affiliated to Tripura University in 1987. The Institute is approved by AICTE, New Delhi. Presently this department is offering M.Tech. courses in Structural Engineering, Geotechnical Engineering, Transportation Engineering, Water Resources Engineering, Environmental Engineering, Seismic Science & Engineering and Hydro Informatics Engineering. The Civil Engineering Department of the Institute has produced many technocrats who are serving the country successfully. The Department has 21 (twenty one) nos. regular faculty members and 16(Sixteen) nos. visiting faculty members. Almost all the faculty members are involved with different consultancy, research and developmental works along with administrative activities of the Institute.

The department has been involved with many research works and produced some excellent outcome. The department also offers PhD program and the main areas of research include Geotechnical Engineering, Structural Engineering, Water Resources Engineering, Environmental Engineering and Transportation Engineering. The department also handles consultancy works and projects with the state & central Government organizations.



Civil Engineering Department

6.2 Academic Programme:

B. Tech (Civil Engineering), M. Tech. (Structural Engineering, Geotechnical Engineering, Transportation Engineering, Environmental Engineering, Water Resources Engineering, Seismic Science & Engineering and Hydro Informatics Engineering) and Ph. D.

6.3 Lab Facilities:

The Civil Engineering Lab has 12 nos. of Lab i.e. (1) Geotechnical Engineering, (2) Structural Engineering, (3) Concrete, (4) Transportation Engineering, (5) Environmental Engineering, (6) Solid Mechanics, (7) Surveying, (8) Engineering Geology, (9) Civil Engineering Computer, (10) Water Resources Engineering, (11) Civil Engineering Drawing and (12) Hydraulics.



Structural Engineering Laboratory



Geotechnical Engineering Laboratory



Environmental Engineering Laboratory



Solid Mechanics Laboratory



Water Resources Engineering Laboratory

6.4 Faculty and other Activities:

Short-Term Courses / Workshops / Seminar / Symposia / Conferences / Training attended by the Faculty in Academic Institutions and Public Sector Undertakings:

Sl. No.	Name of the Faculty	Title	Period
Workshop:			
1	Dr. Debdulal Tripura	National workshop on 'Advances in Structural Engineering'	13-14 August 2016 in NIT Agartala
Training:			
1	Dr. Umesh Mishra	Capacity Building in Geo spatial	10 th Feb- 2 nd

	Technology.	March'2017
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Visits Abroad by Faculty:

Sl. No.	Name of Faculty	Country Visited	Date	Purpose of Visit
1	Dr. Rama Debbarma	Newyork, U.S.A.	6-7 June 2016	Paper Presentation
2	Dr. Ratul Das	Newyork, U.S.A.	6-7 June 2016	Paper Presentation
3	Dr. Partha Pratim Sarkar	Shanghai, China	10-15 July, 2016	Paper Presentation
4	Dr. Rajib Saha	Chicago, U.S.A	14-18 August, 2016	Paper Presentation
5	Dr. Joyanta Pal	Denmark	21-24 August 2016	Paper Presentation
6	Mr. Gopinandan Dey	Denmark	21-24 August 2016	Paper Presentation

Fellowships of Academics and Professional Societies:

Sl. No.	Name of Faculty	Level
ISTE/ CSI and others		
1	Dr. Umesh Mishra	<ul style="list-style-type: none"> • A life member of Indian society for Technical Education with No LM 18347 • A senior member of IACSIT –No 80336897 • Fellow of Institution of Members –No F-113657-3 • Question setter/Examiner/moderator to BPUT Rourkel, OUAT Bhubaneswar, KIIT Deemed university, Bhubaneswar VSSUT Burla and TPSC, Agartala • Member nominated by S & T Dept. To central Govt for of State Level Environment Impact Assessment Authority 2009 • Consulting member to urban Development Dept Govt of ORISSA for the verification of Bids for JNNURM- 2005 & many other Water supply projects • Member in the tripura Science Congress Agartala
2	Dr. Richi Prasad Sharma	<ul style="list-style-type: none"> • The Institution of Engineers (India),(Fellow) • The Indian Society for Technical Education(Life Member) • ASCE(Member) • Indian Building Congress(Life Member)
3	Dr. Sujit Kumar Pal	<ul style="list-style-type: none"> • FIE (India), Institution of Engineers (India) (F-017838-8) • MIE (India), Institution of Engineers (India) (M-061672-3) • Membership of International Society for Soil Mechanics and Geotechnical Engineering • Life membership of Indian Building Congress (ML-5008) • Life membership of Indian Geotechnical Society (LM-2809) • Life membership of Indian Society for Technical Education (LM-19358) • Chartered Engineer (Civil Engineering), Institution of Engineers (India)

		<ul style="list-style-type: none"> • Student Chapter membership of Institution of Engineers (India) during UG Course in KREC, Surathkal (Presently, NITK, Surathkal) • Executive Committee member, Agartala Local Centre (Presently, Tripura State Centre)
4	Dr. Manish Pal	<ul style="list-style-type: none"> • Life membership of IRC since 2008 • Life membership of IBC since 2010
5	Dr. Ratul Das	<ul style="list-style-type: none"> • Member of American Society of Civil Engineers (ASCE), USA • Life Member of Indian Water Resources Society (IWRS), INDIA • Life Member of Indian Society for Earthquake Technology (ISET), INDIA • Life member of Indian Buildings Congress (IBC), INDIA • FIE, INDIA
6	Dr. Rama Debbarma	<ul style="list-style-type: none"> • Member of American Society of Civil Engineers (ASCE), USA • FIE, India
7	Dr. Sima Ghosh	<ul style="list-style-type: none"> • The Institution of Engineers (India) (Associate member) • Indian Geotechnical Society (Member) • American Society of Civil Engineers (Affiliated member)
8	Dr. Rajib Saha	<ul style="list-style-type: none"> • Associate Member, Institution of Engineers India • Life Member, Indian Geotechnical Society • Member, ISSMGE Society • Coordinator, State Resource Institute Earthquake Training for Engineers • Faculty Advisor (Students Chapter), Institution of Engineers India
9	Dr. Sanjay Paul	<ul style="list-style-type: none"> • Member, Indian Geotechnical Society • Member, Institute of Engineers (India)
10	Mrs. Lipika halder	<ul style="list-style-type: none"> • Associate Member of IEI, Membership No. AM/093049/3 IEI
11	Mr. Gopinandan Dey	<ul style="list-style-type: none"> • Life membership of IBC since 2010 • Life membership of ICI since 2009
12	Mr. Joyanta Pal	<ul style="list-style-type: none"> • Life membership of IBC since 2010 • Life membership of ICI since 2009
13	Dr. Debdulal Tripura	<ul style="list-style-type: none"> • Indian Society for Technical Education (ISTE), India, Life Member • American Society of Civil Engineer (ASCE), USA • American Society for Testing & Materials (ASTM), USA • Structural Engineering Institute (SEI), USA • American Concrete Institute (ACI), USA • Earthquake Engineering Research Institute (EERI), USA • Architectural Engineering Institute (AEI), USA • National Information Centre of Earthquake Engineering (NICEE), India
14	Dr. Partha Pratim Sarkar	<ul style="list-style-type: none"> • Life membership of IRC since 2009 The Institution of Engineers (India)

15	Mr. Dipankar Sarkar	<ul style="list-style-type: none"> Life membership of Indian Road Congress Life member of ISTE
16	Dr. Tara Sen	<ul style="list-style-type: none"> The Institution of Engineers (India)
17	Dr. Susant Kumar Biswal	<ul style="list-style-type: none"> ISH NFMFP
18	Mr. Nilotpal Debbarna	<ul style="list-style-type: none"> ISH IWRS

6.5 Design and development Activities:

- In the structural Analysis laboratory of a setup for the casting of pre-stressed concrete beams has been developed.
- Existing ITS setup of Transportation Engineering Lab. Is modified to test the resilient modulus of bituminous concrete.
- A setup is prepared in Transportation Engineering Lab. To check the rate of infiltration through bituminous concrete.
- A temperature control chamber is prepared in Transportation Engineering Lab.

6.6 Research and Consultancy:

The department is engaged in performing various testing related to the Railway Department, PWD, NCCL, PMGSY projects, NBCC, CPWD, Airport Authority of India, Agricultural Department, BRO and many more. Faculties are engaged in research works and publishing research papers in different national and international reputed journals.

Sponsored Research Projects:

Sl. No.	Title	Period	Funding agency	Amount (in lakhs)	Co-ordinators
1	Reliability based Seismic Design of Structures incorporating Soil Structure Interaction	3 years	DST	26.41	Dr. Rajib Saha
2	Utilization of Brick in sub base and base courses for flexible rigid pavement	2 years	HSCL	1.00	Dr. Manish Pal, Dr. Partha Pratim Sarkar, Mr. Dipankar Sarkar

Industrial Consultancy:

Sl. No.	Name of the faculty	Title	Industry	Amount (Rs.)
1	Dr. Partha Partim Sarkar, Dr. Sima Ghosh, Dr. Rajib Saha	Mix Design	P.W.D	28,625
2	Dr. Partha Partim Sarkar, Dr. Rajib Saha	Design of Pavement for passenger	N.F.Railway	57,250

3	Dr. Partha Partim Sarkar, Dr. Rajib Saha	Mix Design	EPL	57,500
4	Dr. Partha Partim Sarkar, Dr. Rajib Saha, Mr. Dipankar Sarkar	Mix Design	CSD-III	28,625
5	Dr. Partha Partim Sarkar, Dr. Sanjoy Paul	Mix Design	AAI	28,750
6	Dr. Partha Partim Sarkar, Dr. Rajib Saha	Design & Drawing	N.F RAILWAY	69,000
7	Dr. Partha Partim Sarkar, Mr. Dipankar Sarkar	Mix Design	NBCC Ltd.	28,625
8	Dr. Partha Partim Sarkar, Dr. Rajib Saha	Design & Drawing	N.F.Railway	230,000
9	Dr. Partha Partim Sarkar, Dr. Sanjoy Paul	Mix Design	PWD	69,000
10	Dr. Partha Partim Sarkar, Dr. Rajib Saha	Mix Design	PWD	28,625
11	Dr. Partha Partim Sarkar, Dr. Rajib Saha	Mix Design	IL & FS	28,625
12	Dr. Partha Partim Sarkar, Dr. Rajib Saha	Mix Design	IL & FS	28,625
13	Dr. Partha Partim Sarkar, Dr. Manish Pal	Mix Design	PWD	11,500
14	Dr. Partha Partim Sarkar, Dr. Manish Pal Dr. Joyanta Pal	Mix Design	HSCL	28,750
15	Dr. Partha Partim Sarkar, Dr. Rajib Saha	Mix Design	M/s S.C. De	28,750
16	Dr. Richi Prasad Sharma, Dr. Manish Pal Mrs. Lipika Halder	Structural Design of LG+G+5 Storied Building	PWD	229,000
17	Dr. Partha Partim Sarkar, Dr. Rajib Saha	Mix Design	N.F RAILWAY	51,750
18	Dr. Partha Partim Sarkar, Dr. Rajib Saha	Mix Design	PWD	28,750
19	Dr. Partha Partim Sarkar, Dr. Rajib Saha Dr. Sujit Kumar Pal, Dr. Manish Pal	Mix Design	PWD	57,500
20	Dr. Partha Partim Sarkar, Dr. Rajib Saha	Mix Design	PWD	28,625
21	Dr. Partha Partim Sarkar, Dr. Rama Debbarma	Mix Design	NBCC Ltd.	28,625
22	Dr. Partha Partim Sarkar, Dr. Rajib Saha	Mix Design	PWD	28,750
23	Dr. Sujit Kumar Pal, Dr. Debdulal Tripura	Mix Design	PWD	28,750
24	Dr. Sujit Kumar Pal, Dr. Partha Partim Sarkar, Dr. Joyanta Pal	Mix Design	PWD	57,500

25	Dr. Sujit Kumar Pal, Dr. Debdulal Tripura, Dr. Joyanta Pal	Mix Design	NBCC Ltd.	28,750
26	Dr. Partha Pratim Sarkar, Dr. Joyanta Pal	Mix Design	PWD	28,750
27	Dr. Manish Pal Dr. Debdulal Tripura	Mix Design	Powergrid	207,000
			Total	15,56,000.00

Research Publications:

Total No. of papers published in Refereed National Journals	: 01
Total No. of papers published in Refereed International Journals	: 34
Total No. Of papers presented in National Conference	: 23
Total No. Of papers presented in International Conferences	: 06

In Refereed National Journal:

- Surajit Munshi and Richi Prasad Sharma, "Sulfate and carbonation reactivity in cement mortar incorporate with rice straw ash" Res. J. Chem. Environ. Vol. 21 (4) April, 2017

In Refereed International Journals:

- Das, B., Saha, R., Halder S., "Effect of in-situ variability of soil on seismic design of piled raft supported structure incorporating dynamic soil-structure-interaction," Soil Dynamics and Earthquake Engineering, 85251–268-2016.
- Chanda, D. and Saha, R., "Concrete dynamic response of pile foundation supported structure considering in-situ variability of soil and modeling uncertainty ," The International Reviewer 3 (2)37-40(ISSN 2395-1575).2016
- Saha, R., Pal A., Halder S., "Appraisal of in-situ variability and modeling uncertainty of dynamic soil-piled raft-structure interaction on seismic response: A probabilistic approach Geotechnical Special Publication," ASCE. Geo-Chicago 2016 621-63010.1061/9780784480151.0612016
- Debnath, A., Deb, K., Das, N. S., "Chattopadhyay, K. K., & Saha, B. Simple Chemical Route Synthesis of Fe₂O₃ Nanoparticles and Its Application for Adsorptive Removal of Congo Red From Aqueous Media: Artificial Neural Network Modeling," Journal of Dispersion Science and Technology, 37775-785 Print ISSN: 0193-2691 Online ISSN: 1532-2351.1122016
- Debnath, A., Majumder, M., & Pal, M. "Potential of Fuzzy-ELECTRE MCDM in Evaluation of Cyanobacterial Toxins Removal Methods ," Arabian Journal for Science and Engineering 413931-3944 ISSN: 1319-8025 (Print) 2191-4281 (Online) 07282016
- Partha Pratim Sarkar, Mallikarjuna "Chunchu Quantification and Analysis of Land-Use Effects on Travel Behavior in Smaller Indian Cities: Case Study of Agartala" Journal of Urban Planning and Development, 401600942450
- Dipankar Sarkar, Manish Pal, Ashoke K. Sarkar, and Umesh Mishra "Evaluation of the Properties of Bituminous Concrete Prepared from Brick-Stone Mix Aggregate Advances in materials Science and Engineering," Volume 2016 (2016)7 pages 42386.
- D. Tripura and K.D. Singh "Cement-stabilized rammed earth square column in compression." Structures and Buildings (Proceedings of Institution of Civil Engineers (ICE) UK) 169 (4), 298-311 – DOI: 10.1680/jstbu.14.00122 (SCI) 2016
- Debnath, A., Deb, K., Chattopadhyay, K. K., & Saha, B., "Methyl orange adsorption onto simple chemical route synthesized crystalline α -Fe₂O₃ nanoparticles: kinetic,

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 - Bhowmik, K. L., Debnath, A., Nath, R. K., Das, S., Chattopadhyay, K. K., & Saha, B., “Synthesis and characterization of mixed phase manganese ferrite and hausmannite magnetic nanoparticle as potential adsorbent for methyl orange from aqueous media: Artificial neural network modeling,” *Journal of Molecular Liquids*, 219, 1010-1022.2016
 - Debnath, A., Thakur, A., Bhowmik, K. L., Bera, A., & Saha, B. “Thermodynamic Studies on the Interaction of Congo Red with Ferric Chloride in Aqueous Medium for Waste Water Treatment,” *Advanced Science Letters*, 22(1), 242-245.2016
 - Ghosh, S. and "Analysis of Soil Nail Excavation considering Rayleigh Wave with Log-spiral Failure Surface", *International Journal of Geosynthetics and Ground Engineering*, Springer, 2: 18. doi:10.1007/s40891-016-0057-3, (First online: 2ndJune, 2016).
 - Jadar, C. M. and Ghosh, S. “Seismic Bearing Capacity of Shallow Strip Footing Using Horizontal Slice Method”, *International Journal of Geotechnical Engineering*, Taylor & Francis. DOI: 10.1080/19386362.2016.1183074, pp: 1-13. (Published online 24-05-2016).
 - Kavinkumar, C. and Ghosh, S. “Non-linear Failure Surface Analysis of Seismic Active Earth Pressure on Retaining Wall Considering Rayleigh Waves” *International Journal of Geotechnical Engineering*, Taylor & Francis. DOI: 10.1080/19386363 .2016.1170318, pp:476-486 (published online: 26-05-2016)
 - Ghosh, S. and Debnath, “CPseudo-static Seismic Analysis of Battered Face Rigid Retaining Wall Supporting Reinforced c- Φ Backfill Considering Non-linear Failure Surface,” accepted for publication in *Geotechnical and Geological Engineering*, Springer, DOI: 10.1007/s10706-016-0018-6 GEGE-D-13-00072.2. published online: 06-05-2016
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 - Nama, S., Saha, A. K. and Ghosh, S. “Improved backtracking search algorithm for pseudo dynamic active earth pressure on retaining wall supporting c- Φ backfill, “ *Applied Soft Computing* (online 7 October 2016).
 - Chanda, N., Ghosh, S. and Pal, M. “Pseudo-dynamic Analysis of Slope considering Circular Rupture Surface:, *International Journal of Geotechnical Engineering*, DOI:10.1080/ 19386362.2016. 1142270. (published online: 11-06-2016).
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- Majumder M, Chakraborty T, Das S., "Find Out the Optimum Condition for a Pump Storage Hydro-Power Plant Using AHP & PSO". International Journal of Advanced Science and Technology. 30:89:1726 2016 Apr
- Ghosh, S, Chakraborty,T.,Saha,S., Majumder, M and Pal.M, "Development of the location suitability index for wave energy production by ANN and MCDM techniques." Renewable and Sustainable Energy Reviews591017-1028. 2016
- Surajit Munshi and Richi Prasad Sharma "Experimental investigation on strength and water permeability of mortar incorporate with rice straw ash"Advances in Materials Science and Engineering, Volume 2016, Article ID 9696505, 7 pages2016
- Arpan Laskar and Sujit Kumar Pal"Investigation of the Effects of Anisotropic Flow of Pore Water and Multilayered Soils on Three-Dimensional Consolidation Characteristics ",Advances in Materials Science and Engineering, Hindawi, Volume 2017, ISSN: 1687-8434, doi: 10.1155/2017/8568953 2017
- Arpan Laskar and Sujit Kumar Pal"Effect of Anisotropic Flow of Water on Consolidation Behaviour of Silty-Clay Soil"International Journal of Engineering and Technology (IJET), Vol. 8, No. 6 PP. 2895-2901,, ISSN (Online) : 0975-4024, , DOI: 10.21817/ijet/ 2016/v8i6/160806251Dec 2016-Jan 2017,
- Sadrita Dutta, Sujit Kumar Pal"Study of Load-Settlement and Consolidation Behavior of Pond Ash and Stone Dust Column Installed In Soft Clayey-Silt Soil", International Journal of Engineering and Technology (IJET), Vol. 8 No. 6, PP. 2878-2886, ISSN (Online) : 0975-4024,DOI: 10.21817/ijet/2016/v8i6/ 160806248 Dec 2016-Jan 2017,
- Plaban Deb and Sujit Kumar Pal"An Experimental and Numerical Study on Behaviour of Single Pile and Group of Piles in Layered Soils under Vertical Load", International Journal of Engineering Research & Technology (IJERT),Vol. 5 Issue 03, ISSN: 2278-0181, March-2016.
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In Refereed National Conference:

- Saha R., Bhowmik C., Brahma U., Pandey A., Das B., Das K. Kumar A., and Kumar R "A glimpse on Experimental studies on Earthquake Engineering related problems "at NIT Agartala Proceedings of National Level Conference on Engineering Problems and Application of mathematics, At NIT Agartala. June 11- 12 (2016).
- Das A., Kumar S. and Saha R, "A Numerical Study on Stability of Soil Slopes by Limit Equilibrium and Finite Element Methods" Proceedings of National Level Conference on Engineering Problems and Application of mathematics, At NIT Agartala. June 11- 12 (2016)
- Das A., Ghosh S. and Saha R, "A Critical review on different methods of Seismic stability of Slopes" Proceedings of National Level Conference on Engineering Problems and Application of mathematics, At NIT Agartala. June 11- 12 (2016)
- Sruthi Rath, Dipankar Sarkar, "Utilization of phosphogypsum as subgrade modifier" NES Geocongress 2016,1315-323,Nil,42391
- Saha, A. and Ghosh, S. "Pseudo-dynamic Bearing Capacity of Shallow Strip Footing Considering Log-Spiral Failure Mechanism Indian" Geotechnical Conference, , at IIT Madras, 15-17 December 2016
- Saha, A. and Ghosh, S. "Effect of Ground Water Table on Seismic Bearing Capacity" National Conference on Engineering Problems and Application of Mathematics,(pp: 27, Abstract Proceedings). 11-12 June, 2016 at NIT Agartala,
- Nama, S., Saha, A. and Ghosh, S. "Comparative Study of Quasi-opposition based Symbiosis Organisms Search algorithm for functions Optimization,". (EPAM-2016), NIT Agartala (pp: 149, Abstract Proceedings).11th-12th June 2016,
- . Das, S., Gupta, S. Paul, A. and Ghosh, S. "A Review Study on deterministic and Probabilistic Seismic Hazard Analysis in India", National Conference on Engineering Problems and Application of Mathematics, at NIT Agartala, (pp: 8, Abstract Proceedings).11-12 June, 2016
- Pal, D. and Ghosh, S. "Stability Analysis of Layered (c- ϕ) Soil Slopes by Pseudo-static Method", National Conference on Engineering Problems and Application of Mathematics, at NIT Agartala, (pp: 58, Abstract Proceedings).11-12 June, 2016
- Debnath, L. and Ghosh, S. "A Critical Review of the Comparison of Limit Analysis with Conventional Limit Equilibrium Method", National Conference on Engineering Problems and Application of Mathematics, at NIT Agartala, (pp: 3, Abstract Proceedings).11-12 June, 2016
- Chanda, N., Ghosh, S. and Pal, M., Sarkar, D. "A Comparative Study on Seismic Analysis of Slope", National Conference on Engineering Problems and Application of Mathematics, at NIT Agartala,pp: 2, Abstract Proceedings). 11-12 June, 2016
- Banerjee, K., Gupta, S. and Ghosh, S. "Seismic Response of Concrete Gravity Dam considering Factor of Safety against Overturning as Critical"National Conference on Engineering Problems and Application of Mathematics, at NIT Agartala, (pp: 55, Abstract Proceedings).11-12 June, 2016
- Saha, A and Ghosh, S. "Seismic Stability Analysis of Straight Concrete Gravity Dam", National Conference on Engineering Problems and Application of Mathematics, 1st NIT Agartala, (pp: 57, Abstract Proceedings).1-12 June, 2016
- Saha, R. , Das, A. and Ghosh, S."A Critical Review on Different Methods of Seismic Stability of Slope", National Conference on Engineering Problems and Application of Mathematics, at NIT Agartala, (pp: 4, Abstract Proceedings).11-12 June, 2016

- P. Sarma, S. Sangma, and D. Tripura "Comparison of mechanical behaviour of rammed earth and cob prism stabilised with coconut fibre." National Level Conference on Engineering Problems and Application of Mathematics-, National Institute of Technology Agartala, India.2016
- Tanaya Deb and Dr. Sujit Kumar Pal "Mobilised Shear Strength on the Failure Surface of 2D Belled Anchor Model Piles Under Uplift in Cohesion less Soil" Deep foundation Technology for Infrastructure Development in India,DFI, IIST Shibpur, 7-9th September, 2016
- Bipul Sen and Dr. Sujit Kumar Pal "Influence of Finer Friction and Water Table on Compaction and Consolidation Characteristics of Soils of Agartala City", Engineering Problems and Application of Mathematics, NIT Agartala,2016
- Tarun kumar Rajak, Laxmikant Yadu and Sujit Kumar Pal "Analysis of slope stability of fly ash stabilized soil slope," 51th Indian Geotechnical Conference, IGC-2016, 15-17 December, IIT Madras, 15-17 December, 2016.
- Benata Debbarma and Sujit Kumar Pal "California bearing ratio and permeability behavior of fly ash reinforced with geotextiles," 51th Indian Geotechnical Conference, IGC-2016, 15-17 December, IIT Madras, 15-17 December, 2016.
- Aninda Dhar and Sujit Kumar Pal "Effects of Reinforced and unreinforced layered soils on shallow foundation," 51th Indian Geotechnical Conference, IGC-2016, 15-17 December, IIT Madras, 15-17 December, 2016
- Rai Bahadur Reang and Sujit Kumar Pa l"Strengths behaviour of the clayey silt soil mixed with fly ash and sand," 51th Indian Geotechnical Conference, IGC-2016, 15-17 December, IIT Madras, 15-17 December, 2016
- Suman Sarkar and Sujit Kumar Pal "Compaction characteristics of soil", North East Students Geo-Congress on Advances in Geotechnical Engineering-2016 (NES – Geocongress 2016),, NIT Agartala pp. 372-380 22nd January 2016
- Subhra Das, Tanaya Deb and Sujit Kumar Pa "Physical Properties and Compaction Characteristics of Clayey-Silty Soil Mixed with Class F Indian Fly Ash" Engineering Problems and Application of Mathematics, NIT Agartala,2016

In Refereed International Conference:

- Binata Debbarma and Dr. Sujit Kumar Pal, "Fly Ash not a Waste but a very Useful Construction Material RECYCLE 2016 (International conference on Waste Management, ICWM-CRSW-02, IIT, GUWAHATI-2 April, 2016
- Saha R, Chanda D. and Halder S. "Reliability based sustainable design of piled-raft supported structure" Proceedings of Indo-US Bilateral Workshop Establishing Linkages Between Geo environmental Practices and Sustainability, Chicago. USA124 August 18th, 2016
- Debnath, A., Bera, A., Chattopadhyay, K. K., & Saha, B. "Studies on magnetic properties of chemically synthesized crystalline calcium ferrite nano particles In DAE SOLID STATE PHYSICS SYMPOSIUM 2015 AIP Publishing. Vol. 1731, No. 150103(2016, May).
- Bera, A., Deb, K., Debnath, A., Sarkar, K., Bhowmik, K. L., & Saha, B. "Ohmic Contact of n-Type CdO film with FTO Coated Glass for Photonic Device Applications." In International Conference on Fibre Optics and Photonics . Optical Society of America.(pp. Tu4A-31)2016, December
- D. Tripura and S. Das . "Shape and size effects on the compressive strength of cement stabilized rammed earth." Architectural Engineering Institute Conference (AEI-ASCE), Oklahoma City, University of Oklahoma, USA -April 11-13, 2017.

(Accepted)

- Surajit Munshi and Richi Prasad Sharma, "Utilization of Rice Straw Ash as A Mineral Admixture in Construction Work" 2nd International Conference on Emerging Materials: Characterization & Application, 2017.

Distinguished Visitors to the Departments:

Sl. No.	Name of the Visitors and Designation	Date of Visit	Purpose of Visit
1	Dr. Ambarish Ghosh, IEST, Shibpur	27 th -29 th April 2016	M. Tech Thesis Supervision
2	Subhamoy Bhattacharya, University of Surrey, U.K	27 th July 2016	Presented a lecture
3	Prof. Damodar Maity, Department of Civil Engineering, IIT Kharagpur	13 th -14 th August 2016	Lecture Presentation
4	Dr. Hemant B. Kaushik, Department of Civil Engineering, IIT Guwahati	13 th -14 th August 2016	Lecture Presentation
5	Mr. Deepak Bansal, HUDCO, New Delhi	13 th -14 th August 2016	Lecture Presentation

6.7 Institute –Industry Collaboration:

The department is engaged in R&D activities in collaboration with different eminent industrial houses. Both the undergraduate and postgraduate students are actively participating in these collaborative activities.

6.8 Industrial Consultancy and Sponsored Research:

Sponsored research and industrial consultancy works are being taken up by the department to find out innovative strategies to mitigate natural disasters and also for the upliftment of the society at large.

6.9 Other Activities:

- I. This department is acting as State Referral Institute (SRI) of the Disaster Management Programme.
- II. STA, Tripura in PMGSY works.

7.0 CHEMICAL ENGINEERING DEPARTMENT

7.1 Introduction:

Being a part of the National Institute of Technology Agartala, this department starts its journey in the academic year of 2009-10 with sanctioned intake capacity of sixty students in undergraduate level, B.Tech in Chemical Engineering. Subsequently, the department started offering Ph.D. in Engineering in Engineering from July, 2012 and M. Tech in Chemical Engineering from July 2013. Presently, the department has a student strength of 189, of which 178 are undergraduate, 03 are masters and 8 are research scholars.

The department presently has dynamic team of 10 faculty members. Other than teaching, the faculty members are engaged in research in various dimensions of chemical engineering which include Biofuels, Renewable energy, Nanotechnology, Environmental Engineering, Waste treatment, Catalysis and reaction engineering, Fluid dynamics and numerical simulations and many other emerging and pressing areas of chemical engineering.

01 faculty member of the department has been awarded Overseas Associateship. Department has filed 2 or more patents in last few years. In last year alone the department has published 44 journals and 07 book chapters and research work is presented in 09 conferences. The faculty members of the department have received sponsored research grant worth more than 1.5 crore in individual research projects from various funding agencies, of which, 0.6 crore is received in single project in 2017. Research laboratories are being developed according to the research interest of faculty members aiming cutting edge research activities. In addition, the department has elaborate laboratory facilities for undergraduate laboratory courses.

The students of the department are placed in reputed companies like Brahmaputra Crackers, Vedanta, Wipro, Infosys. Also, several graduates of the department are pursuing higher studies in reputed institutions in India and abroad. 02 of the students of the department received MITACS Globelink award, of which, one is in last year

7.2 Sponsored Research– 2016 -2017:

Sl No	Sponsoring Agency	Project Title	Name of the Chief Investigator/ Project Investigator	Sanctioned Value
1	DBT, Min. of Sci & Tech, GOI	A study on developing a sustainable bio-electrochemical system for conversion of waste to electricity	Dr. Srimanta Ray (PI) Chemical Engg. Dr. A. K. Chakraborty (Co-PI), Electrical Engg.	Rs. 54.34 lakhs

7.3 Consultancy programmes :

Department is trying level best to start consultancy program, but lack of manufacturing industry in the vicinity is a serious impediment.

7.4 Industrial associateship scheme– :

- Dr. Srimanta Ray, faculty member and head of the department has been awarded Overseas Associateship by GOI, which he has tenured and successfully completed between July to December 2016.
- Mr. Ajay Bura, a student from Chemical Engineering has been awarded MITACS Globelink award, which he has tenured and successfully completed between May to August 2017

7.5 MoUs agreement signed:

01 student, Mr. Rajesh Chowdhury, from Chemical Engineering has been selected in the Integrated Ph.D. program at IIT Madras for which the MOU is signed at Institute Level.

7.6 Patents :

Sl No	Title of the Invention	Inventor(s)	Department	Patent Version No	Date of Filling of Application
01	A Membrane-independent off-grid hybrid power system	Srimanta Ray, D. Das, R. Bhattacharjee	Chemical Engineering	Indian Patent 201631000586A	2016
02	A Method for Coagulation of Rubber Latex	Srimanta Ray, S. Gupta, R. Saha	Chemical Engineering	World patent WO2016030908	2016

7.7 Publication contribution of the department is 60 (#) which include:

(#)	a.	Journals:	44	➔ 43 International, 01 National
	b.	Books/Chapters	07	➔ 07 International
	c.	Conference:	09	01 International, 08 National

7.8 Visits by an eminent person (s):

01 (International Expert) + 04 (National Expert) which include Prof. R. Seth from Canada, Prof. DVR Murthy from NITK, Prof, MK Jha from NIT Jalandhar, Dr. A. Chowdhury from ONGC and Dr. S. K. Das from CU, visited the department in past year.

7.9 Ph.D. awarded.:

01 scholar, Mr. Uma Shankar Uday, has been provisionally awarded PhD in Engg. from Chemical Engg Dept.

02 Faculties of Chemical Engg Dept., namely, Dr. Soma Nag and Dr. Bibhab Kr. Lodh, has been provisionally awarded PhD in Engg from Civil Engg and Mechanical Engg, respectively.

7.10 Placement data.:

23 students, out of 40, from the batch 2013-17, graduating in 2017, were placed.

3 students, out of 40, from the batch 2014-18, to be graduating in 2018, were already placed (till Sept2017).

8.0 CHEMISTRY DEPARTMENT

8.1 Introduction :

Department consists of students, reseachsolars, teachers and staff. Students and research scholars are the backbone of the department. Success of our students and research scholars in national and international level is thus the motivation of teachers to guide them better and better. All faculties in the department are highly educated with all having PhD degree and good number of publications. We are strongly motivated to impart and enhance the advanced knowledge and skills of students and professionals to meet the global challenges, to address rural needs through research and to offer effective solutions to the industries through research and consultancies.

The Department of Chemistry aims to be the best provider of chemical education within the Northeast region and to be a leader in research, publications and scholastic excellence. We are committed to providing a stimulating learning environment for our students, courses that are relevant and an experience that is world-class whether judged by local or international standards. Our goal is to present the content of chemistry set in a current and relevant context for engineers. As this is a support course taken usually in the first year, we also have goals related to the improvement of skill levels pertaining to the use of technology and communication. We add to this a conscious effort to foster attitudes of lifelong learning and appreciation for chemistry as a core of knowledge.

The Chemistry department believes in and supports the study, teaching and understanding of chemical principles across a wide spectrum of areas: inorganic, organic, physical. Dedicated to excellence in graduate and undergraduate education, the chemistry faculty teaches all lab sections and evaluates and grades all assignments. Our department believes chemistry occupies a central position in the physical sciences. The faculty and staff of the Chemistry department complement their love of teaching and learning with a strong sense of community. Our department functions as an active community of educators and interacts closely with our students. Working collaboratively, we strive to develop better capabilities in science and a better understanding of the learning process. Most importantly, we sincerely hope our students acquire the skills and confidence to become lifelong learners.





8.2 Academic Programme :

Department of Chemistry has conducted B.Tech courses, 5-year integrated BS-MS, 2 years M.Sc. program in chemistry. Department has offered Engineering Chemistry for first and second semester students of various engineering branch run in our institute. Department also offered Advanced Engineering Chemistry for 4-semester Chemical Engineering department. Department has started 5 year integrated BS-MS dual program from 2013 academic session. The course curriculum and syllabus was formulated with the help of Professors from reputed institutions of our country like IISc. Bangalore, IIT Kharagpur etc. Department has intake capacity of 10 students per session for MSc. program and 20 students per session for dual BS-MS program. Department has also enrolled for Ph.D. program in chemistry every year depending on the availability of seats.

Department has developed infrastructure for carrying out the research work in various fields such as natural product chemistry, organic synthesis, organometallic chemistry, coordination chemistry, Green chemistry, bioinorganic and nanotechnology.

8.3 Faculty and their Activities:

Short-Term Courses/ Workshops/ Seminar/ Symposia/ Conferences organized by the faculty members:

Sl. No.	Co-ordinators	Title	Period
1	Dr. Tarun.K. Misra	National conference on “Recent Development & Applications in Chemical Sciences” (RDACS-2016) organized by Department of Chemistry, National Institute of Technology, Agartala.	20 th -21 th May, 2016
2	Dr. K.S. Singh	National Workshop on “Application of X-ray Crystallography for Molecular structure Determination” organized by Department of Chemistry, National Institute of Technology, Agartala.	08 th -09 th December, 2016

Short-Term Courses/ Workshops/ Seminars/ Symposia/ Conferences/ Training attended by the Faculty in Academic Institutions and Public Sector Undertakings:

Sl. No.	Name of Faculty	Title	Period
Conference:			
1.	Dr. K. S. Singh	International Conference on “Applied Chemistry”, Houston, USA	17-18 th October, 2016

Visits Abroad by Faculty:

Sl. No.	Name of Faculty	Country Visited	Date	Purpose of Visit
1.	Dr. K. S. Singh	United State of America (USA)	17-18 th October, 2016	International Conference

Fellowships of Academics and Professional Societies:

Sl. No.	Name of Faculty	ISTE/ CSI and others	Level	Year
1.	Dr. Saroj Kr. Das	Indian Chemical Society	Life Member	1995
2.	Dr. Tarun K. Misra	Indian Science Congress Association; Indian Chemical Society	Life Member	2013 2014
3.	Dr. K. S. Singh	Indian Science Congress Association	Life Member	2007
4.	Dr. Mitali Saha	Indian Carbon Society	Life member	2011
5.	Dr. Mithun Chakraborty	Tripura Chemical Society	Life Member	2012

8.4 Research and Consultancy:

Sponsored Research Projects:

Sl. No.	Title	Period	Funding Agency	Amount (in lakhs)	Co-ordinators
1.	Design an efficient method for the synthesis of some RNA nucleobases	2012-2016	Department of BioTechnology	57.90	Dr. Saroj Kr. Das
2.	Metal nanoparticle with a knack for anion/molecular recognition: Synthesis, water dispersion, sensing and bio-conjugation	2014-2017	Department of Science and Technology-Nanomission	40.73	Dr. Tarun K. Misra

Research Publications:

Total No. of papers published in Referred National Journals: 01

Total No. of papers published in Referred International Journals: 16

Total No. of papers presented in international Conference: 01

In Refereed National Journals:

1. D. Debnath, A. Purkayastha, R. Choudhury, T. K. Misra, 'Spectral regression analysis of solvent parameters on azo-derivatives of 1,3-dimethyl-5-(arylozo)-6-aminouracil and estimation of change in dipole moment from ground to excited state', Journal of Indian Chemical Society 93,0-10, (2016).

In Refereed International Journals:

1. R. Choudhury, A. Purkayastha, D. Debnath, T. K. Misra, 'Synthesis and study of aggregation kinetics of fluorescence active *N*-(1-Naphthyl) ethylenediammonium cations functionalized silver nanoparticles for a chemo-sensor probe', *Journal of Molecular Liquids*, 238, 96-105, (2017).
2. D. Debnath, S. Roy, A. Purkayastha, A. Bauzá, R. Choudhury, R. Ganguly, A. Frontera, T. K. Misra, 'Synthesis and structure of 1,3-dimethyl-5-(*p*-sulfonamide-phenylazo)-6-aminouracil and its Ni(II) complex: Topological insights and investigation for noncovalent interactions', *Journal of molecular structure*, 1141, 225-236, (2017).
3. A. Purkayastha, D. Debnath, S. Roy, A. Bauzá, R. Choudhury, A. Frontera, and T. K. Misra, 'Synthesis and Investigation of Solid-and Solution-State Structures of Nickel (II) Complexes with 1, 3-Dimethyl-5-(arylazo)-6-aminouracil', *European Journal of Inorganic Chemistry*, 36, 5585-5593, (2016).
4. S. Roy, I. Oyarzabal, J. Vallejo, J. Cano, E. Colacio, A. Bauza, A. Frontera, A.M. Kirillov, M G. B. Drew, S Das, 'Two Polymorphic Forms of a Six-Coordinate Mononuclear Cobalt (II) Complex with Easy-Plane Anisotropy: Structural Features, Theoretical Calculations, and Field-Induced Slow Relaxation of the Magnetization', *Inorganic Chemistry*, 55, 8502-8513, (2016).
5. R. Banik, S. Roy, A. M. Kirillov, A. Bauza, A. Frontera, A. Rodriguez-Dieguez, J. M. Salas, W. Maniukiewicz, S. K. Das, S. Das, 'Two mixed-ligand cadmium(ii) compounds bearing 5-nitrosopyrimidine and N-donor aromatic blocks: self-assembly generation, structural and topological features, DFT studies, and Hirshfeld surface analysis', *Crystal Engineering Communication*, 18, 5647-5657, (2016).
6. M. Roy, S. Roy, N.M. Devi, C.B. Singh, K.S. Singh, 'Synthesis, structural characterization and anti microbial activities of diorganotin (IV) complexes with poly aromatic azo-azomethine carboxylic acid ligand', *Journal of Molecular Structure*, 439, 164-172, (2016).
7. R. Banik, S. Roy, A. M. Kirillov, A. Bauza, A. Frontera, A. Rodriguez-Dieguez, J. M. Salas, W. Maniukiewicz, S. K. Das and S. Das, 'Experimental observation and theoretical investigation of a novel Cd(II) complex with π -hole interactions involving nitro groups', *Crystal Engineering Communication*, 17, 3912-3916, (2016).
8. M. Roy, S. Roy, K.S. Singh, J. Kalita and S.S. Singh, 'Synthesis, characterization and anti-diabetic assay of diorganotin (IV) azo-carboxylates: crystal structure and topological studies of azodicarboxylic acid ligand and its cyclic tetranuclear dimethyltin(IV) complex', *New Journal of Chemistry*, 40, 1471-1484, (2016).
9. K.S. Singh, M. Roy, S. Roy, B.Ghosh, N.M. Devi, C.B.Singh and L.K.Mun, 'Synthesis, characterization and antimicrobial activities of triorganotin (IV) complexes with azo-azomethine carboxylate ligands: Crystal structure of a tributyltin (IV) and a trimethyltin (IV) complex', *Journal of Coordination Chemistry*, 70, 361-380, (2016).
10. R. Choudhury, A. Purkayastha, D. Debnath, T. K. Misra, "Recognition of Silver Nanoparticles Surface Adsorbed Citrate Anions by Macrocyclic Polyammonium Cations: A Spectrophotometric Approach to Study Aggregation Kinetics and Evaluation of Association Constant" *Journal of Molecular Recognition* 29, 451-461, (2016).
11. D. Debnath, A. Purkayastha, R. Choudhury, T. K. Misra, "Conversion of 1,3-Dimethyl-5-(Arylazo)-6-Amino-Uracils to 1,3-Dimethyl-5-(Arylazo)-Barbituric Acids: Spectroscopic Characterization, Photophysical Property and Determination of pK_a of the Products". *Journal of Chinese Chemical Society* 63, 580-589 (2016).
12. R. Banik, S. Roy, L. Dhan, J. Titis, R. Boca, A. M. Kirillov, A. D. Martin, A. Bauza, A. Frontera, A. Rodriguez-Dieguez, J. M. Salas, S. Das, "Self-assembly synthesis, structure, topology, and magnetic properties of a mononuclear Fe (III)-violurate derivative: a combined experimental and theoretical study". *J. Chem. Soc. Dalton Trans*, 16166-16172 (2016).

13. P. Sutradhar and M. Saha, "Silver Nanoparticles: Synthesis and Its Nanocomposites for Heterojunction Polymer Solar Cells" *Journal of physical Chemistry C*, 120, 8941 (2016).
14. P. Sutradhar and M. Saha, "Size-controlled synthesis of silver nanoparticles using *Zizyphus mauritiana* fruit extract". *Main Group Chemistry*, 15, 47-55 (2016).
15. M. Roy, S. Roy, K. S. Singh, J. Kalita, and S.S. Singh, "Synthesis, characterization and anti-diabetic activities of triorganotin(IV) azo-carboxylates derived from amino benzoic acids and resorcinol: Crystal structure and topological study of a 48 membered macrocyclic tetrameric trimethyltin(IV) complex" *Inorganica Chimica Acta*, 439, 164-172(2016)
16. S. Roy, A. Bauza, A. Frontera, F. Schaper, R. Banik, A. Purkayastha, B.M. Reddy, B. Sridhar, M.G.B. Drew, S.K. Das, S. Das "Structural diversity and non-covalent interactions in Cd(II) and Zn(II) complexes derived from 3,5-dinitrobenzoic acid and pyridine: Experimental and theoretical aspects" *Inorganica Chimica Acta*, 440,38-47 (2016).

Distinguished Visitors to the Departments:

Sl. No.	Name of the Visitors and Designation	Date of Visit	Purpose of Visit
1	Prof. M. K. Singh, Tripura University (A Central University)	14. 05. 2016	External Examiner of M.Sc (4 th sem.) Project Work
2	Prof. S. K. Srivastava, Vice Chancellor, NEHU Shillong	20-21.05.2016	National Conference (RDACS-2016)
3	Prof. Brindaban C. Ranu, IACS, Kolkata	20-21.05.2016	National Conference (RDACS-2016)
4	Prof. R. N. Prasad (President, Indian Chemical Society)	20-21.05.2016	National Conference (RDACS-2016)
5	Prof. D. C. Mukherjee, Honorary Secretary, Indian Chemical Society	20-21.05.2016	National Conference (RDACS-2016)
6	Prof. P. K. Das, IISc Bangalore	20-21.05.2016	National Conference (RDACS-2016)
7	Prof S. K. Pal, S N Bose NCBS, Kolkata	20-21.05.2016	National Conference (RDACS-2016)
8	Dr. S. Majumder, Tripura University (A Central University)	20-21.05.2016	National Conference (RDACS-2016)
9	Prof Chittaranjan Sinha, Jadavpur University, Kolkata	20-21.05.2016	National Conference (RDACS-2016)
10	Prof. M.R. Maurya, IIT Roorkee	22.08.2016	External Examiner of PhD Viva-voce
11	Prof. Airody Vasudeva Adhikari, NIT Surathkal	22.09.2016	Interactions with Faculties and Students
12	Prof. Kumar Biradha, IIT Kharagpur	08-09.12.2016	Two days' National Workshop on Application of X-Ray Crystallography for Molecular Structure Determination

13	Dr. Rakesh Ganguly, Nanyang Technological University, Singapore	08-09.12.2016	Two days' National Workshop on Application of X-Ray Crystallography for Molecular Structure Determination
14	Dr. Deepak Chopra, IISER Bhopal, India	08-09.12.2016	Two days' National Workshop on Application of X-Ray Crystallography for Molecular Structure Determination
15	Dr. Bipul Sarma, Tezpur University, India	08-09.12.2016	Two days' National Workshop on Application of X-Ray Crystallography for Molecular Structure Determination
16	Dr. Ranjit Thakuria, Gauhati University, India	08-09.12.2016	Two days' National Workshop on Application of X-Ray Crystallography for Molecular Structure Determination

9.0 COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

9.1 Introduction:

The Department of Computer Science and Engineering of National Institute of Technology Agartala offers undergraduate and postgraduate programme & PhD Programme in Computer Science and Engineering where students are encouraged to acquire knowledge with an integrated thinking on education, research & development, application and training. The students are provided knowledge to understand the fundamental of basic sciences and humanities, knowledge in inter-disciplinary areas, innovation, problem solving abilities, intellectual, honest and professional ethics and capacity for team work in national and international environment. The first undergraduate batch rolled out in the year 2003. Since its inception in 1999, the department has always been recognized for excellence.

9.2 Academic Programme :

This Institute offers courses of study and facilities for research leading to B.Tech, M.Tech, MCA and Ph.D under Computer Science & Engineering.

The department currently offers the following programmes:-

Under Graduate Programmes:

- B.Tech in Computer Science & Engineering (Total 8 Semesters / 4 years).

Post Graduate Programmes:

- M.Tech in Computer Science & Engineering (Total 4 Semesters / 2 years)
- MCA (Total 6 Semesters / 3 years)
- Ph.D

9.3 Faculty and their Activities:

Short-Term Courses/ Workshops/ Seminar/ Symposia/ Conferences organized by the faculty members:

Sl. No.	Co-ordinators	Title	Period
Short Term Courses			
1.	Dr. Ashim Saha	MHRD sponsored 1 week GIAN course on “IoT sensors, devices and data analytics”	8 th – 12 th August, 2016
2.	Mr. Tamal Biswas(Co-Coordinator)	MHRD sponsored 1 week GIAN course on “IoT sensors, devices and data analytics”	8 th – 12 th August, 2016

Short-Term Courses/ Workshops/ Seminars/ Symposia/ Conferences/ Training attended by the Faculty in Academic Institutions and Public Sector Undertakings:

Sl. No.	Name of Faculty	Title	Period
Workshop:			
1.	Dr.M. K. Deb Barma	“Applications and future of IOT in daily life & Smartphone Based Low cost Virtual Reality Systems”- an augmented interaction, at Institute of Engineers	27 th August, 2016

		(India) Tripura State Centre.	
		Sensor Network: Research and Latest Trends, Tripura University, Suryamani Nagar	14 th September 2016
		Computational Intelligence in the Present Era” & “e-paper Technology, 21 st January, 2017, Institute of Engineers (India) Tripura State Centre	21 st January, 2017
2.	Mr.Tribid Debbarma	MHRD sponsored GIAN Workshop on “Practical Biological Signal Analysis”	21-25 November 2016
3.	Mr.Parthasarathi De	Two days National Workshop on “Academic Environment in Technical Education: Future Perspectives”	16 th – 17 th March, 2017
Symposia:			
1.	Dr.M. K. Deb Barma	TEQIP- II Sponsored Research Symposium on Computing Conclave of NITs (CoCoNITs-2016), NIT Surathkal, Mangalore	14-16, October, 2016
2.	Dr.Ashim Saha	“1 st National PARAM Shavak User Symposium”, CDAC, Kolkata.	24 th – 25 th November 2016.
3.	Mr.Kishore Kumar Dhar	Research symposium on” computing conclave of NITs(CoCoNITs-2016)”	14 th -16 th October,2016
4.	Mr.Kishore Kumar Dhar	National conference on “Engineering Problems and Application of Mathematics(EPAM-2016)”	11 th - 12 th June,2016
5.	Mr.Dhrubajyoti Bhowmik	Research symposium on computing conclave of NITs(CoCoNITs-2016),NITK Suratkhal,Mangalage 2016	14 th -16 th October,2016
6.	Mr.Nirmalya Kar	“1 st National PARAM Shavak User Symposium”, CDAC, Kolkata.	24 th – 25 th November 2016.
Conference:			
1.	Dr.M. K. Deb Barma	Springer International Conference on Intelligent Communication, Control and Devices” (ICICCD'16), University of Petroleum and Energy Studies, Dehradun	2-3, April, 2016
		Twelfth International Conference on Communication Networks (ICCN – 2016), Bangalore, India	19th – 21st , August , 2016
		Springer Second International Conference on Computing and Communication Systems, (I3CS-2016), NEHU Shillong, India	11-13 November, 2016.
		International Conference On Innovative Systems (ICIS 2016), Bangalore, Karnataka, India	16 -17, December 2016
2.	Dr.Ashim Saha	“10 th International Conference on Design & Emotion”	28 th -30 th September 2016.
3.	Mr.Tribid Debbarma	2 nd International Conference on “Contemporary Computing and	14-17December, 2016

		Informatics”	
4.	Mr.Tribid Debbarma	2 nd International Conference on” Recent Advances and Innovations in Engineering (ICRAIE-2016)”	23-25 December 2016
5.	Mr.Dhrubajyoti Bhowmik	2 nd International conference on “Sustainable Computing techniques in Engg.,Science & Management.”	27 th -28 th Jan 2017
6.	Mr.Dhrubajyoti Bhowmik	International Cnference on “Advanced materials Technologies -2016”,	27 th and 28 th Dec 2016
7.	Mr.Dhrubajyoti Bhowmik	International Conference on” Micro-electronics and Telecommunication Engg-2016”	22 nd -23 rd Sep 2016
8.	Mr .Suman Deb	International Conference on Advance Computing and Intelligent Engineering ICACIE 2016,	21st -23rd December, 2016
9.	Miss. Tannistha Pal	26th International Conference IEEE TENCON 2016 on Technologies for Smart Nation, Marina Bay Sands, Singapore(2 papers)	22-25 November, 2016
Short term Course:			
1.	Mr.Anupam Jamatia	GIAN Programme on “Deep Learning for Natural Language Processing”	20 th -26 th February 2017
1.	Miss Sharmistha Majumder	“SKANI101x: Basic 3D animation using Blender” (A course of study offered by IITBombayx)	14 th February – 16 th April, 2016
		MHRD sponsored GIAN Course on “IoT Sensors, Devices and Data Analytics”	8 th – 12 th August, 2016
2.	Mr.Rajib Chowdhuri	MHRD sponsored GIAN Course on “IoT Sensors, Devices and Data Analytics”	8 th – 12 th August, 2016
3.	Mrs. Priyanka Sarkar	MHRD sponsored GIAN Course on IoT Sensors, Devices and Data Analytics	8 th – 12 th August, 2016
		Two days National Workshop on “Academic Environment in Technical Education: Future Perspectives”	16 th – 17 th March, 2017
		Three days Faculty Development Program on “Networking Simulation and Related Technologies using NetSim Software.”	03rd - 05th October, 2016
4.	Mrs. Purbani Kar	MHRD sponsored GIAN Course on “IoT Sensors, Devices and Data Analytics”	8 th – 12 th August, 2016
5.	Mr.Tamal Biswas	1 week GIAN course on “IoT sensors, devices and data analytics”	8 th – 12 th August, 2016
6.	Mr.Sanjib Debnath	MHRD sponsored GIAN Course on IoT Sensors, Devices and Data Analytics	8 th – 12 th August, 2016
7.	Miss.Tannistha Pal	MHRD sponsored GIAN Course on IoT Sensors, Devices and Data Analytics	8 th – 12 th August, 2016

Visits Abroad by Faculty:

Sl. No	Name of Faculty	Country Visited	Date	Purpose of Visit
1	Dr.Ashim Saha	Netherlands	28 th - 30 th September 2016.	To attended “10 th International Conference on Design & Emotion”
2	Miss Tannistha Pal	Singapore	22-25 November, 2016	To present two papers in 26th International Conference IEEE TENCON 2016 on Technologies for Smart Nation.

9.4 Research and Consultancy :

Sponsored Research Projects:

Sl. No.	Title	Period	Funding Agency	Amount (in lakhs)	Co-ordinators
1.	Capacity Building by establishment of C-DAC's High Performance Computing solution - Supercomputer in a Box "PARAM Shavak" at National Institute of Technology, Agartala for engineering study, research and skill development on parallel Computing	January 2015- December 2016	C-DAC's North-East Steereing Committee (Central Govt Body)	48.36 Lakhs	Mr. Nirmalya Kar

Research Publications:

Total No. of papers published in Refereed International Journals	:8
Total No. of papers presented in National Conference	:3
Total No. of papers presented in International Conferences	:19

In Refereed International Journals:

1. Swapan Debarbarma “On the Carrier Contribution to the Elastic Constants in Ultra-Thin Films of III-V and Optoelectronic Materials in the Presence of Intense Electric Field”, International Journal of Quantum Matter , Vol 5, Page no 58-70,2016.
2. Swapan Debarbarma “Einstein’s Photoemission from Quantum Confined Superlattices” International Journal of Nanoscience and Nanotechnology (SCI) Vol 16 Page no 1095-1124, 2016.
3. Parthasarathi De ,Dr Dibyendu Ghoshal, “Iris pattern Recognition of the kingfisher bird using discrete wavelet transform and feature extraction from histogram orientation Gradient”, Indian Journal of Science and Technology”Vol(9)44., Vol—42 November 2016
4. Parthasarathi De ,Dr Dibyendu Ghoshal Study of Iris Pattern Matching and Detection of the persons having Squint, Indian Journal of Science and Technology”Vol(9)44,November 2016.
5. Parthasarathi De ,Dr Dibyendu Ghoshal Human Iris Recognition for Clean Electoral Process in India by Creating A Fraud Free Voter Registration List,Procedia Computer Science Vol 89, Page no-850-855, 22/08/2016.

6. Parthasarathi De , Dr Dibyendu Ghoshal Recognition of Non Circular Iris pattern of the goat by structural, statistical and Fourier descriptors Vol 89, Page no-845-849, 22/08/2016.
7. Parthasarathi De *,Dr Dibyendu Ghoshal,Tapajyoti Deb Dual Authentication of a Human Being from Simultaneous Study of Palm Pattern and IRIS Recognition, Indian Journal of Science and Technology, Volume-9-35, November 2016.
8. Jishnu Mukhoti, Pratyusha Rakshit, Diptendu Bhattacharya, Amit Konar, Atulya K. Nagar, “Knowledge extraction from a time-series using segmentation, fuzzy matching and predictor graphs”. 2016 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2016, Vancouver, BC, Canada, ISBN 978-1-5090-0626-7, July 24-29, 2016.
9. Kunal Chakma,Amitava Das “CMIR:A Corpus for Evaluation of Code Mixed Information Retrieval of Hindi-English Tweets”, Computacion y Sistemas, Vol 20,no3 pp425-434, ISSN 2007-9737

In Proceedings of National Conference:

1. Piyali Kar, M .K. Deb Barma “Entropy based route measurement in clusterbased routing in MANETs” National Conference on Engineering Problems and Application of Mathematics (EPAM-2016),NIT Agartala Page-123, 11th -12th June, 2016.
2. Lalita Kumari, Radhey Shyam, Purbani Kar “Security Enhancement in Android Based Smartphone, National Level Conference on Engineering Problems and Application of Mathematics-2016,” NIT Agartala, 11th -12th June, 2016.
3. K K Dhar, A Mitra, P Bhattacharya, D Debnath “Experimental Study On The Effect Of Temperature Gradient On Bubble Rise Velocity” National conference on engineering problems and application of mathematics(EPAM2016)Page no-124, NIT Agartala, 11th -12th June, 2016.

In Proceedings of International Conference:

1. M. K. Deb Barma, Rajib Chowdhury “Comparison of Performance Metrics of ModAODV With DSDV”, Springer International conference on intelligent communication, control & devices (ICICCD’16), April 2-3, 2016.
2. Royal Sequiera, Monojit Choudhury, Parth Gupta, Paolo Rosso, Shubham Kumar, Somnath Banerjee, Sudip Kumar Naskar, Sivaji Bandyopadhyay, Gokul Chittaranjan, Amitava Das, Kunal Chakma “Overview of FIRE-2015 Shared Task on Mixed Script Information Retrieval” , Post Proceedings of the Workshops at the 7th Forum for Information Retrieval Evaluation (FIRE 2015), Vol 1587, Page No. 19 -25 , 05/5/2016.
3. Dwijen Rudrapal, Anupam Jamatia, Kunal Chakma, Amitava Das, Björn Gambäck “Sentence Boundary Detection for Social Media Text”, 12th International Conference on Natural Language Processing (ICON-2015),2016.
4. Anupam Jamatia, Björn Gambäck, Amitava Das, “Collecting and Annotating Indian Social Media Code-Mixed Corpora “,17th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing 2016), 3rd -9th April,2016.
5. Parthasarathi De, Dr. Dibyendu Ghoshal,” Human Iris Recognition for Clean Electoral Process in India by Creating A Fraud Free Voter Registration List”, Twelfth International Conference on Image and Signal Processing, ICISP 2016, August 19-21, 2016, Bangalore, India, 12, 19/08/2016.
6. Parthasarathi De, Dr. Dibyendu Ghoshal,” Recognition of Non Circular Iris pattern of the goat by structural, statistical and Fourier descriptors”, Twelfth International Conference on Image and Signal Processing, ICISP 2016, August 19-21, 2016, Bangalore, India, 12, 19/08/2016.

7. Parthasarathi De, Dr. Dibyendu Ghoshal,” Study of Iris Pattern Matching and Detection of the persons having Squint”, Shannon100,3rd International conference on Computer Science, 3, 9/04/2016.
8. Dhruvajyoti Bhowmik, Apu Kr. Saha, Paramartha Dutta,” A Novel Design to Obtain Fault Tolerant Majority Gate for Five Input Majority Gate by Quantum Cellular Automata “, Proceedings 2016 International Conference on Micro-Electronics and Telecommunication Engineering ICMETE 2016, 429, 22-23 September 2016.
9. Jhunu Debbarma, M. K. Debbarma, Sudipta Roy, R. K. Pal,” Cross Layer Design Strategies for Power Control and Link Predictability”, International Conference on Computing and Communication Systems (I3CS’16) , Department of IT, NEHU, Shillong (In press), November 11-13, 2016.
10. Piyali Kar, M. K. Deb Barma, Pritam Kar,” Forecast Weighted Clustering In MANET”, Twelfth International Conference on Communication Networks (ICCN – 2016), 253-260, August 19th – 21st 2016,
11. Tannistha Pal, Mrinal Kanti Bhowmik, Debotosh Bhattacharjee, Anjan Kumar Ghosh,” Visibility Enhancement Techniques for Fog Degraded images: A Comparative Analysis with Performance Evaluation”, 26th International Conference IEEE TENCON 2016 on Technologies for Smart Nation, November 22-25, 2016, Marina Bay Sands, Singapore, 22-25 November, 2016.
12. Sarmistha Chakraborty, Mrinal Kanti Bhowmik, Anjan Kumar Ghosh, Tannistha Pal,” Automated Edge Detection of Breast Masses on Mammograms”, Marina Bay Sands, Singapore, 22-25 November, 2016.
13. S. Majumder Sensor Based Smart Motivational System for Students under Exam Pressure, 2nd International Conference on Sustainable Computing Techniques in Engineering, Management and Science, Jain Engineering College, Belgaum (Near Goa), India, 27th - 28th , January 2017.
14. S. Majumder, K. Routh Sensor Based Smart Hunger Management System Fused with KNN Search Algorithm for Selecting the Smart Food Containers, 2nd International Conference on Sustainable Computing Techniques in Engineering, Management and Science, Jain Engineering College, Belgaum (Near Goa), India, 27th - 28th , January 2017.
15. M. K. Deb Barma et al., “Energy efficient Dynamic and Self-optimized Routing In Wireless Sensor Network Based on Ant colony Optimization” proceeding of International Conference On Innovative Systems (ICIS 2016), Bangalore, Karnataka, India, 16 -17, December, 2016.
16. Tribid Debbarma, K Chandrasekaran, "Comparison of FOSS based Profiling Tools in Linux Operating System Environment", 2nd IEEE International Conference on “Contemporary Computing and Informatics (IC3I 2016)”, 14-17 December, 2016, Amit University, Noida India.
17. Tribid Debbarma, K Chandrasekaran, "Green Measurement Metrics Towards a Sustainable Software: A Systematic Literature Review", 2nd IEEE International Conference on “Recent Advances and Innovations in Engineering (ICRAIE-2016)”, 23-25 December 2016, Purnima University, Jaipur, India.
18. Prashant Bhardwaj, Partha Pakray, "Information Extraction from Microblogs", Forum for Information Retrieval Evaluation 2016, Kolkata, 84-86, 7th - 10th December, 2016

Distinguished Visitors to the Departments:

Sl. No.	Name of the Visitors and Designation	Date of Visit	Purpose of Visit
1.	Prof. P. K. Bose, Ex – Director, NITAgartala	14 th Jan, 2017	Interaction With Alumni Members Of NIT Agartala

2.	Dr. D. S. Bhilare, Sr. System Manager & Head Computer Center Devi Ahilya University, Indore	11 th Feb, 2017	Revision Of B.Tech Syllabus
3.	Lt Gen Nirbhay Sharmahon'ble Governor Of Mizoram	9 th Feb, 2017	Inauguration Of NIMCET Funded MCA Laboratory
4.	Prof. Swapan Bhattacharya, Professor, Department of Computer Science & Engineering. Jadavpur University, Kolkata.	15 th March, 2017	Interaction With Faculty Members Of Cse Dept.
5.	Shivakumar Mathapathi, Technical Evangelist and CTO, Dew Mobility, USA	8 th To 12 th Aug, 2016	External Expert For Gian Workshop On Iot Sensors, Devices And Data Analytics
6.	Prof. Shibendu Debbarma, HOD, Information Technology Department, Tripura University	27 th April, 2016	For Evaluation Of Mca Project Presentation For 2013 – 16 Batch
7.	Prof. Ananthanarayana, NITK Surathkal	11 th May, 2016	For Evaluation Of M.Tech Project Presentation For 2014 – 16 Batch
8.	Prof. Partha Pakray, HOD, CSE Department, NIT Mizoram	9 th May, 2016	For Evaluation Of B.Tech Grand Viva Voce For 2012 – 16 Batch
9.	Prof. Timothy A Gonsalves, Director, IIT Mandi	10 th June, 2016	Interaction With Faculty Members Of Cse Department
10.	Prof. M B Saidutta, Professor, Department of Chemical Engineering, NITK, Surathkal		
11.	Mr. Bidyut Dey, Joint Director, DIT, Govt of Tripura Agartala	15 th June, 2016	For Evaluation Of Mca Project Presentation Of The Students Who Have Got 'I' Grade In Their Project
12.	Prof. Anupam Basu, CSE Department, IIT Kharagpur. Head, Centre For Educational Technology. Prof – In – Charge, Media Lab Asia – IIT KGP Lab	6 th July, 2016	Interaction With Faculty Members Of Cse Dept. Delivered Two Lecture Sessions On: I) Cognitive Education And Ii) Operating System

10.0 ELECTRICAL ENGINEERING DEPARTMENT

10.1 Introduction:

Department of Electrical Engineering is one of the enriched and primogenital branches of engineering of the National Institute of Technology (NIT), Agartala (formerly Tripura Engineering College, Govt. of Tripura). This Department has been fulfilling the need of the state Tripura as well as the nation by developing technical manpower in Electrical Engineering field since its inception in 1965. In this long 50 years of its journey, being a pivotal branch of the then Tripura Engineering College, this department has witnessed many ups and downs. Still, it has produced a great number of capable electrical engineers who in turn spread their talent around various parts of the globe thereby enhancing the image of the institute in general and branch in particular.

The Electrical Engineering Department started with an annual intake of 20 seats in 1965 and consecutively increased to 40 in 1981. After conversion of the Tripura Engineering College into National Institute of Technology (NIT) in 2006, not only the intake has been increased to 90 but also this conversion has given a golden opportunity to the department to be flourished in all the probable ways in order to boost up the teaching learning process.



10.2 Academic Programme:

Electrical Engineering Department has progressed noticeably with annual intake of 90 for 4 years (8 semesters) B.Tech program and annual intake of 54 for 2 years (4 semesters) M. Tech. programme. Apart from B.Tech. and M. Tech. Electrical Engineering department started Ph.D program from 2008 academic session. The first batch of M.Tech in Electrical

Engineering has been started in 2008 with specialization in Power Electronics & Drives. Considering the aspiration of the students and keeping in view the present trend of employment opportunity in Power & Industrial sector and also faculty necessity in academic field, two more specializations, namely (a) Power System and (b) Instrumentation have also been introduced in M.Tech curriculum of Electrical Engineering from the academic session 2010-2011. The first batch of students of both the specializations has successfully completed their course. Therefore presently the department is offering M.Tech in following specialization viz. (a) Power System, (b) Instrumentation and (c) Power Electronics & Drives (d) Energy systems. Similarly, an excellent response has been obtained for Ph.D program. Several candidates from academic arena and industry have shown their interests for pursuing their Ph.D work in the Department of Electrical Engineering and enrolled their names in the program. At present 38 nos. of candidates are carrying out their Ph. D work in the department. It is worth to be mentioned here that the opportunity of this higher learning has opened up an avenue for the in-house faculties and staff to obtain higher degrees for their professional development without any need to go outside the state. Some seats are reserved for institutional candidates in this regard.

Academic Program Goals:

The Electrical Engineering Department has goals for undergraduate, graduate as well as Ph.D programs. In the 2015-16 session 4 students get enrolled in PhD Programme.

The *undergraduate program goal* is to develop specialized proficiencies in the concepts, methods, and tools required for entry level positions in Electrical Engineering (EE) and for graduate and professional studies.

The *master's program goal* is to develop specialized proficiencies in the concepts, methods, and tools required for intermediate level positions in Electrical Engineering and other professions and for PhD studies. Students may carry out their thesis work, under the guidance of renowned and experienced faculty members from other reputed technical institutes.

The *doctoral program goal* is to develop specialized proficiencies in the concepts, methods, and tools required for high level positions and leadership in Electrical Engineering and other professions. Coursework and teaching experience are considered to be a significant part of graduate education.

10.3 Faculty and their activities:

Short-Term Courses/ Workshops/ Seminar/ Symposia/ Conferences organized by the faculty members:

Sl. No.	Co-ordinators	Title	Period
Short Term Courses			
a.	Dr. ArdhenduSaha	“PT-symmetry and its realization in experimental systems: theory and applications”	13 th -17 th February, 2017
b.	Mr.BikramDas, Mr.AbanishwarChakrabarti Mr.PrabirRanjanKasari Dr. Aniruddha Bhattacharaya	“Strategies on Power Electronics”	20 th -22 nd January, 2017

Short-Term Courses/ Workshops/ Seminars/ Symposia/ Conferences/ Training attended by the Faculty in Academic Institutions and Public Sector Undertakings:

Sl. No.	Name of Faculty	Title	Period
Workshop:			
a.	Mr.Diptanu Das	“Academic Environment in Technical Education: Future Perspectives”	16 th -17 th March, 2017
b.	Dr. ArdhenduSaha	“Measuring Productivity in Higher Education”	19 th -22 nd September, 2016
		“Stochastic and Fuzzy Models in Management, Education and Artificial Intelligence”	3 rd -7 th October,2016
Conference:			
a.	Mr.Bikram Das	“A new modular multilevel converter topology with reduced number of power electronic components”	March 2017
		“Improved Single Stage Grid Connected Solar PV System using Multilevel Inverter”	2016
		“SVPWM based Decoupled Control of Active and Reactive Power for single stage Grid Connected Solar PV System”	25-27 th November, 2016
		“Implementation and Practical Evaluation of an Automatic Solar Tracking System for Different Weather Conditions”	25 th -27 th November 2016
b.	Mr.Diptanu.Das Dr.Aniruddha Bhattacharya,&Dr. Rup Narayan Ray	“Symbiotic Organisms Search Algorithm for Economic Dispatch Problems”	22-24 Febuary, 2017
Short term Course:			
a.	Mr. Bikram Das	“Power Electronics and Thyristor based Control System”	23 rd -27 th May,2016
		“Electrical Power System & Protection”	9 th -13 th January,2017
b.	Dr. Biman Kumar Saha Roy	“Strategies in Power Electronics”	20 th -22 nd January 2017

Visits Abroad by Faculty:

Sl. No.	Name of Faculty	Country Visited	Date	Purpose of Visit
a.	Dr.Priyanath Das	Taiwan	20-10-16	For attending international Conference

b.	Dr. Priyanath Das	Bangkok	26-12-2016	For attending international Conference
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Fellowships of Academics and Professional Societies:

Sl. No.	Name of Faculty	Level
ISTE/ CSI and others		
a.	Dr. Rup Narayan Ray	IE(I)-Member, ISTE – LM and INDIAN SCIENCE CONGRESS ASSOCIATION Member
b.	Dr. Priyanath Das.	ISTE Member, FIE(I)
c.	Dr. Ardhendu Saha	ISTE Member IACS (Life Member),
d.	Dr. Ajoy Kumar Chakraborty	MIET(UK), MISTE, FIE(1)
e.	Mrs. Anindita Jamatia.	ISTE Member
f.	Mr. Abanishwar Chakraborty	ISTE Member
g.	Dr. Sumita Deb.	ISTE, Life Member Institute of Engineers (India), Graduate G-547504-0
h.	Mrs. Minakshi DebBarma.	ISTE Life Member Institute of Engineers (India)
i.	Mr. Prabir Ranjan Kasari	ISTE, LM 62058, IEEE
j.	Mr. Bikram Das.	ISTE(LM/ 62063), IEEE(India) associate member(AM099384-3) , Solar Energy Society of India (LM/1459/2010)
k.	Dr. Subhadeep Bhattacharjee	Senior Member of IEEE (USA)
l.	Dr. Subhadeep Bhattacharjee	Member of (IET) (UK)
m.	Dr. Bidyut Kr. Bhattacharyya	IEEE Member and Fellow
n.	Dr. Aniruddha Bhattacharya	Member of IEEE
o.	Mr. Diptanu Das	Associate Member Institute of Engineers(India)
p.	Mr. Saptadip Saha	Associate Member (AMIE) Institute of Engineers(India)

10.4 Research and Consultancy :

Sl. No.	Name of the Faculty	Subject of Consultancy
a.	Dr. Subhadeep Bhattacharjee	“Resource person of State Technical Support Agency (STSA) for preparing Integrated Cluster Action Plan (ICAP) for RD Department under National Rurban Mission (NRuM), Govt. of India”.
		“Designed village street lighting for different clusters (comprising several villages) of Govt. of Tripura under National Rurban Mission (NRuM)”.

Sponsored Research Projects:

Sl. No.	Title	Period	Funding Agency	Amount (in lakhs)	Co-ordinators
a.	“Non-contact Multidirectional Vibration Sensor using 2D Position Sensitive Detector “	2016-2018	Indian space Research Organization (ISRO), Govt. of India	33.89	Co-Investigator

Research Publications:

Total No. of papers published in Refereed International Journals	: 49
Total No. of papers presented in National Conference	: 10
Total No. of papers presented in International Conferences	: 22

In Refereed International Journals:

1. S. Bhattacharjee and S.Acharya, ‘Performative analysis of an eccentric solar–wind combined systemfor steady power yield’, Energy Conversion and Management (Elsevier), (ISSN: 0196-8904), 108(2016), pp. 219-232, 2016.
2. S. Sharma, S. Bhattacharjee and A. Bhattacharya, ‘Grey Wolf Optimization for Optimal Sizing of Battery Energy Storage Device to Minimize Operation Cost of Micro-Grid’, IET Generation, Transmission & Distribution, (ISSN 1751-8687), 10(3), pp. 625-637.
3. S. Sharma, S. Bhattacharjee and A. Bhattacharya, ‘Quasi-oppositional swine influenza model based optimization with quarantine for optimal allocation of DG in radial distribution network’, International Journal of Electrical Power and Energy Systems (Elsevier) ,(ISSN: 0142-0615) 74(2016), pp. 348-373,2016.
4. S. Ray, A. Bhattacharya and S. Bhattacharjee, ‘Differential search algorithm for reliability enhancement of radial distribution system’, Electric Power Components and Systems (Taylor & Francis), (ISSN:1532-5008 (Print), 1532-5016 (Online), 44(1), pp. 29-42,
5. S. Sharma, S. Bhattacharjeeand and A. Bhattacharya, ‘Operation cost minimization of a Micro-Grid using Quasi-Oppositional Swine Influenza Model Based Optimization with Quarantine’, Ain Shams Engineering Journal (Elsevier), (ISSN: 2090-4479) , (doi:10.1016/j.asej.2015.09.007,,
6. S. Ray, A. Bhattacharya and S. Bhattacharjee, ‘Optimal allocation of distributed generation and remote control switches for reliability enhancement of a radial distribution system using oppositional differential search algorithm’, The Journal of Engineering (IET) ,(ISSN 2051-3305) (doi: 10.1049/joe.2015.0097), pp. 1-15.
7. S. Ray, A. Bhattacharya and S. Bhattacharjee, ‘Optimal Placement of Switches in a Radial Distribution Network for Reliability Improvement’, International Journal of Electrical Power and Energy Systems (Elsevier), (ISSN: 0142-0615) 76(2016), pp. 53-68.
8. S. Sharma, S. Bhattacharjee and A. Bhattacharya, ‘Solution of Multi-Objective Optimal DG Placement Problem using Swine Influenza Model Based Optimization (SIMBO)’, AMSE JOURNALS –2015-Series: Advances C, 70 (2015), pp.46-70.
9. S. Ray, A. Bhattacharya, S. Bhattacharjee, ‘Optimal allocation of remote control switches in radial distribution network for reliabilityimprovement’, Ain Shams

- Engineering Journal (Elsevier), (ISSN: 2090-4479) (dx.doi.org/10.1016/j.asej.2016.01.001),p
10. Minakshi Deb Barma, Sumita Deband ArdhenduSaha, 'A comparative analysis of total internal reflection based quasi phase matched broadband second harmonic generation in various configurations of double tapered isotropic semiconductor slab', Optoelectronics And Advanced Materials – Rapid Communications, Vol. 10, No. 9-10, p. 624 – 633, September -October 2016
 11. BhaswatiMedhi, Sumita Deb, 'Analytical study of broadband second harmonic generation by total internal reflection-quasi phase matching using the concept of highly multimodal nonlinear guided wave approach in a tapered isotropic slab of Zinc telluride crystal', Optik, Elsevier, Vol. 135, p-426-433, April 2016.
 12. P. Adhvaryu, A. Bhattacharya and P.K.Chattopadhyay, 'Dynamic Optimal Power Flow of Combined Heat and Power System With Valve-Point Effect', Energy (Elsevier); vol. 127; pp. 756-767; May 2017.
 13. B. K. Saharoy, R.Sharma, A. K. Sinha and A.K. Pradhan, 'Faulty Line Identification Algorithm for Secured Backup Protection Using PMUs', Electric Power Components and Systems, vol. 45, No. 5, pp. 491-504, 2017.
 14. Sharmistha Sharma, SubhadeepBhattacharjee and Aniruddha Bhattacharya , 'Grey wolf optimisation for optimal sizing of battery energy storage device to minimize operation cost of microgrid', IET Generation, Transmission & Distribution, vol. 10, no. 3, pp. 625-637,2016.
 15. Saha, S.Das, P. Chakraborty, A. K.Sarkar & S.Debbarma, 'Fabrication of hybrid ultraviolet photodetector using organic polymer thin-film-coated TiO₂ nanowires', Journal of Nanophotonics, vol. 10(2),2016.
 16. Saha, S., Das, P., Chakraborty, A. K., Debbarma, R., &S.Sarkar, 'Hybrid solar cell with TiO₂ film: BBOT polymer and copper phthalocyanine as sensitizer', Advances in Electrical and Electronic Engineering, vol. 14(3)2016.
 17. S.Saha, S.Akter, S., Mahto, K. K., Das, P., Chakraborty, A. K., &Awasthi, 'Improvement in power efficiency of photovoltaic array under shading condition using bypass diode' International Journal of Renewable Energy Research (IJRER), vol. 6(2), pp. 628-636,2016.
 18. S.Saha, S.Das, P.Chakraborty, A. K.Sarkar & S.Debbarma, 'Fabrication of DSSC with nanoporous TiO₂ film and Kenaf Hibiscus dye as sensitizer', International Journal of Renewable Energy Research (IJRER), vol. 6(2), 620-627,2016.
 19. D.Das, SBhattacharya A, Chakraborty AK, 'Solution of short-term hydrothermal scheduling using sine cosine algorithm. Soft computing' (Springer). Article in press, doi : 10.1007/s00500-017-2695-3 (SCI Expanded),2017.
 20. D.Das, S.Bhattacharya, Chakraborty A K , 'Quasi reflected ion motion optimization algorithm for short-term hydro thermal scheduling', Neural computing and applications (Springer), article in press, doi:10.1007/s00521-016-2529-8. (SCI expanded), 2016.
 21. RakhiBhattacharjee & Ajoy kumar Chakraborty, 'Comparison of Dispersion Relations and Effect of Magnetic Field on Different Nano-structures', IJCTA vol. 9. Pp. 453-461. (Scopus), 2016.
 22. DebasreeSaha, AsimDatta, Biman Kumar SahaRoy , Priyanath Das, 'A comparative study on the computation of directional overcurrent relay coordination in power systems using PSO and TLBO based optimization', Engineering Computations, Vol. 33 Iss: 2, pp.603 – 621,2016.
 23. DebasreeSaha, AsimDatta, Priyanath Das, 'Optimal coordination of directional overcurrent relays in power systems using Symbiotic organism Search (SOS) optimization technique', IET Generation, Transmission & Distribution, Volume: 10, Issue: 11, pp. 2681 – 2688, August 2016.

24. DebasreeSaha, AsimDatta, Priyanath Das, 'Optimal coordination of directional overcurrent relays in power systems using Symbiotic organism Search (SOS) optimization technique', IET Generation, Transmission & Distribution, Volume: 10, Issue: 11, pp. 2681 – 2688, August 2016.
25. DebasreeSaha, AsimDatta, Biman Kumar Saha Roy, PriyanathDas, 'Optimal Coordination of DOCR in interconnected Power Systems' , 2nd International Conference on Control, Instrumentation, Energy and Communication 2016 (CIEC-16), University of Calcutta, Kolkata ,January 2016.
26. ChittaranjanNayak, AlirezaAghajamali, Francesco Scotognellad, ArdhenduSaha, 'Effect of standard deviation, strength of magneticfield and electron density on the photonic band gap of an extrinsic disorder plasma photonic structure',Optical Materials, Vol 72, pp. 25-30,2017.
27. ArdhenduSaha, RumaDebnath, Digvijay Singh Hada and Susheel Kumar Beda, 'Simultaneous oscillations of twelve wavelengths around 1.3 μm in quasi-CW Nd:YAG laser', Optics and Laser Technology, Vol 94, pp: 112–118.2017.
28. AparupaKar, NabamitaGoswami, ArdhenduSaha, 'Long range surface plasmon induced tunable ultra-low threshold optical bistability using graphene sheets at THz frequency', Applied Optics Vol. 56, Issue 8, pp. 2321-2329 ,2017.
29. AparupaKar, NabamitaGoswami, ArdhenduSaha, 'Long range surface plasmon induced tunable ultra-low threshold optical bistability using graphene sheets at THz frequency', Applied Optics Vol. 56, Issue 8, pp. 2321-2329,2017.
30. Aparupa Kar, Nabamita Goswami, Ardhendu Saha, 'Long-range surface-plasmon-enhanced all-optical switching and beam steering through nonlinear Kerr effect'' Appl. Phys. B, 123 (1), pp. 1-9, December 2016.
31. Ruma Debnath, PreetiKumari, ArdhenduSaha, 'Electro-optically tuned non-critically phase matched second harmonic generation of Nd:YAG laser in LiNbO₃ crystal', Optik, Vol. 132, pp 232–235,2017.
32. PriyankaDey, ArdhenduSaha, 'Additive solc action in aperiodically poled MgBaF₄ for deep UV applications', Optik, Vol 127, Issue 24, pp: 12017–12022.2016.
33. PriyankaDey, Ie Mei Bhattacharyya and ArdhenduSaha, 'Dispersion compensated optical amplifier in Ti-diffused PPLN ridge waveguide', Applied Optics, Vol. 55, No. 30, , pp: 8596-8600, October 2016.
34. RumaDebnath, Digvijay Singh Hada, Susheel Kumar Beda, ArdhenduSaha, 'Electro-optically tunable self-focusing and self-defocusing in bulk KTP crystal by cascaded second-order process", Chinese Optics Letters, Vol. 14 Issue 12, pp. 121902,2016.
35. Chittaranjan Nayak and ArdhenduSaha, 'Effect of the matrix dimension on the performance of photonic nanojets produce from an array of cubiod profile microsteps', Optik - International Journal for Light and Electron Optics, Volume 127, Issue 22, pp. 10766-10771, September 2016.
36. PriyankaDey, Ashutosh Dash and ArdhenduSaha, 'Tunable folded Solc filter in bulk anisotropic crystal', Optik-International Journal for Light and Electron Optics, Volume 127, Issue 22, , pp. 10366–10372, August 2016.
37. ChittaranjanNayak and ArdhenduSaha, 'Photonic nanojet produce from a rectangular grooves based finite length diffraction grating', Optik-International Journal for Light and Electron Optics, Vol. 127, Issue 22, , pp. 10283–10287, August 2016.
38. Prasad Kumar Swain, NabamitaGoswami and ArdhenduSaha, 'LRSP resonance enhanced spatial and angular Goos–Hanchen shift and Imbert–Fedorov shift for Gaussian beam, Laguerre–Gaussian beam and Bessel beam', Optics Communications, Vol. 382, pp. 1-6, July 2016.
39. Prasad Kumar Swain, NabamitaGoswami and ArdhenduSaha, 'LRSP resonance enhanced spatial and angular Goos–Hanchen shift and Imbert–Fedorov shift for

- Gaussian beam, Laguerre–Gaussian beam and Bessel beam’, Optics Communications, Vol. 382, pp. 1-6, July 2016 .
40. ChittaranjanNayak, Saswata Mukherjee and ArdhenduSaha, ‘Process engineering study of photonic nanojet from highly intense to higher propagation using FDTD method’, Optik-International Journal for Light and Electron Optics, Vol. 127, Issue 20, pp. 8836-8840 June 2016.
 41. NabamitaGoswami, Kamlesh K Chauhan and ArdhenduSaha, ‘Analysis of Surface Plasmon Resonance Based Bimetal Coated Tapered Fiber Optic Sensor with Enhanced Sensitivity through Radially Polarized Light’, Optics Communications, Volume 379, pp. 6-12, 2016.
 42. Bijit Choudhuri, Aniruddha Mondal and Ardhendu Saha, ‘Enhanced Photodetection from TiO₂–SiO_x–TiO₂ One-Dimensional Device’, Journal of Electronic Materials, Vol. 45, Issue 8, pp. 4208-4214, April 2016,
 43. ChittaranjanNayak and ArdhenduSaha, ‘Early detection of acute dehydration using one dimensional photonic device’,Optik-International Journal for Light and Electron Optics, Vol. 127, Issue 13, pp. 5462–5465,March 2016.

In Proceedings of National Conference:

1. R. Bhattacharjee and S. Bhattacharjee, ‘Analysis of solar thermal central receiver power plant on varied flow pattern and molten salt composition’, National Conference on Renewable Energy Technology Utilization for Rural Development and Trade Show (NCRETURD), North Eastern Hilly University (NEHU), Shillong, 27th February – 1st March, 2017.
2. SoumeshChatterjee and B. K, Saha Roy, ‘Effect of DG on transient stability and other important aspects of power system’, inproceedings Engineering Problems and Application of Mathematics, 2016.
3. Bhowmik, A. R&Chakraborty, A. K. , ‘ Multi Objective Optimal Reactive Power Dispatch Using Non Dominated Sorting Gravitational Search Algorithm’ ,In Engineering Problems and Application of Mathematics, June 2016.
4. Chakraborty, A. K., & Sharma N., ‘Smart Metering- Design, Implementation and Application’ ,In Engineering Problems and Application of Mathematics, May2016.
5. Ardhendu Saha,Smita Banik,Sharbari Deb, ‘Analysis of Propagation Characteristics of Ultra-fast Super-Gaussian Pulse in Optical fiber’, National conference on Engineering Problems and Application of Mathematics-2016, NIT Agartala, Tripura, India, 11-12th June 2016.
6. Sampa Das, ArdhenduSaha, ‘Noncontact Multidirectional Vibration Sensor using 2D Position Sensitive Detector’ , National conference on Engineering Problems and Application of Mathematics-2016, NIT Agartala, Tripura, India, 11-12th June 2016.
7. Susheel Kumar Beda, RumaDebnath, Digvijay Sing Hada,A.Saha ‘Electro-optically Tunable Nonlinear Phase Shift by Cascaded Second-Order Process in Bulk LiNbO₃Crystal’, National conference on Engineering Problems and Application of Mathematics-2016, NIT Agartala, Tripura, India, 11-12th June 2016.
8. RumaDebnath, PreetiKumari, ArdhenduSaha, ‘Electro-Optically Tuned Non-Critically Phase- Matched Second Harmonic Generation of Nd:YAG Laser in LiNbO₃ Crystal’, Student Conference on Optics and Photonics2016, PRL Ahmadabad, September 2-3, 2016.
9. ChittaranjanNayak, RumaDebnath, ArdhenduSaha, ‘Generation of photonic nanojet from a droplet type microstructure’, Student Conference on Optics and Photonics2016, PRL Ahmadabad, September 2-3, 2016.

10. ArdhenduSaha, SmitaBanik, Sharbari Deb, 'Analysis of Propagation Characteristics of Ultra-fast Super-Gaussian Pulse in Optical fiber', National conference on Engineering Problems and Application of Mathematics-2016, NIT Agartala, Tripura, India, 11-12th June 2016

In Proceedings of International Conference:

1. Bhaswati Medhi and Sumita Deb, 'Broadband Second Harmonic Generation in Mid-Infrared region in a multi-tapered Zinc Telluride slab using Total Internal Reflection Quasi Phase Matching', International Conference TECHNOVA 2016, Guwahati university, P – ISSN: 2350-0077, e – ISSN: 2350 – 0255, 22-23rd December 2016.
2. Bikram Das, 'Implementation and Practical Evaluation of an Automatic Solar Tracking System for Different Weather Conditions', IEEE 7th Power India International Conference (PIICON), 25-27th Nov 2016.
3. Bikram Das, 'SVPWM based Decoupled Control of Active and Reactive Power for single stage Grid Connected Solar PV System' IEEE 7th Power India International Conference, (PIICON), 25-27th Nov' 2016.
4. Bikram Das, 'Improved Single Stage Grid Connected Solar PV System using Multilevel Inverter', IEEE International Conference on "Power Electronics, Drives and Energy Systems (PEDES), 2016.
5. Bikram Das, 'A new modular multilevel converter topology with reduced number of power electronic components', IEEE international conference ICIIECS, Coimbatore, March 2017.
6. SoumeshChatterjee and B. K, Saha Roy, 'Transient Stability and Other Important Aspects of Power System in Multi-DG Environment', In proceedings 7th IEEE Power India International Conference (IEEE PIICON), 2016.
7. DebasreeSaha , Biman Kumar Saha Roy , Priyanath Das , 'Anti-Islanding Detection Method selection for Grid Connected DFIG Wind Farms using ANP method' , In proceedings 7th IEEE Power India International Conference (IEEE PIICON), 2016.
8. Pronob Kr. Ghosh, SoumeshChatterjee, B. K, Saha Roy, 'Complete and Incomplete PMU Observability', In proceedings 6th IEEE Conference ICCPEIC, 2017.
9. Bhowmik, A. R., Chakraborty, A. K. , 'NSMOOGSA for solving combined economic and emission dispatch problem In Transmission and Distribution' , Conference and Exposition (T&D), 2016 IEEE/PES (pp. 1-5), 2016 May.
10. Chakraborty A. K., Sharma N., 'Advanced metering infrastructure: Technology and challenges. In Transmission and Distribution', Conference and Exposition (T&D), 2016 IEEE/PES (pp. 1-5), 2016, May.
11. Chakraborty A. K., Sharma N., 'Control of permanent magnet synchronous motor (pmsm) using vector control approach' In Transmission and Distribution Conference and Exposition (T&D), 2016 IEEE/PES (pp. 1-5), 2016 May.
12. Saha A, Bhattacharya, A. Das, Chakraborty A.K. , 'Optimal power flow using crow search algorithm' , 2nd IEEE International Conference on Electrical, Computer and Communication Technologies, Coimbatore, Tamil Nadu, India, 22-24 Feb, 2017(presented).
13. Saha A, Bhattacharya, A, Das P, Chakraborty A.K., 'Optimal power flow using crow search algorithm' , 2nd IEEE International Conference on Electrical, Computer and Communication Technologies, Coimbatore, Tamil Nadu, India, 22-24 Feb, 2017(presented).
14. Saha A, Bhattacharya A, Das P, Chakraborty A.K., 'Optimal power flow using crow search algorithm, 2nd IEEE International Conference on Electrical, Computer and

- Communication Technologies, Coimbatore, Tamil Nadu, India, 22-24 Feb, 2017(presented).
15. Saha A, Bhattacharya A, Das P, Chakraborty A. K. , ‘Symbiotic organisms search algorithm for static optimal power flow problems’ , IEEE International Conference on Science, Technology, Engineering and Management, 3-4March 2017.
 16. Saha A, Bhattacharya A, Das P, ChakrabortyA.K., ‘Water evaporation optimization technique for static optimal power flow problems’ , IEEE 2 nd International Conferences for Convergence of Technology, 7-9 March 2017.
 17. NabamitaGoswami , Kamlesh Kumar Chauhan, ArdhenduSaha, ‘Long –Range Surface Plasmon Based Tapered Fiber Optic Sensor with Enhanced Sensitivity using Silver Nano Layer through Radially Polarized light’, Third International Conference on Nanotechnology for Better Living (NBL-2016), National Institute of Technology, Srinagar, Jammu and Kashmir, India, 25-29th May 2016.
 18. Prasad Kumar Swain , Nabamita Goswami, Ardhendu Saha, ‘Enhanced Goos Hanchen Shift and Imbert-Fedorov shift in three layered Kretschmann-Geometry with Gaussian Beam, Laguerre-Gaussian Beam and Bessel Beam in Silver Nano Layer with Surface Plasmon Resonance’, International Conference on Computing, Communication, Nanophotonics, Nanoscience, Nanomaterials and Nanotechnology (12C4N-2K16), Holy Grace Academy of Engineering, Ernakulam, Kerala, India, 7-8th april 2016.
 19. Ardhendu Saha, Arijit Datta, Surjit Kaman, ‘Multimode Interference based High Sensitivity Temperature Sensor by Shinning Zeroth Order Bessel-Gauss Beam’, 13th International Conference on Fiber Optics & Photonics, PHOTONICS 2016, IIT Kanpur, Kanpur, Uttar Pradesh, India, 04-08 December, 2016.
 20. Susheel Kumar Beda, Ruma Debnath, Digvijay Sing Hada, ArdhenduSaha, ‘Electro-optically Tunable Nonlinear Phase Shift due to Cascaded Second-Order Optical Process in Bulk KTP Crystal (Poster Session)’ , 13th International Conference on Fiber Optics & Photonics, PHOTONICS 2016, IIT Kanpur, Kanpur, Uttar Pradesh, India, 04-08 December, 2016 .
 21. Deepak Chaurasia, Nabamita Goswami, Ardhendu Saha, ‘Long Range Surface Plasmon Resonance Based Taper Fiber Optic Sensor with Enhanced Sensitivity using Au Nano-Layer through Radially Polarized Light’ , International Conference on Advanced Material Technologies (ICAMT-2016), Dadi Institute of Engineering and Technology, Visakhapatnam, Andhra Pradesh, India, pp.303-307, 27th- 28th Dec. 2016.
 22. Deepak Chaurasia, Nabamita Goswami, Ardhendu Saha, ‘With Enhanced Sensitivity Surface Plasmon Resonance Based Liquid Sensor through Radially Polarized Light in Bimetallic Taper Fiber with Ag and Au Nano Layers’, 2nd International Conference on Recent Advance in Nanoscience and Nanotechnology-2016 (ICRANN-2016), Spacial Centre for Nano Sciences, Jawaharlal Nehru University, New Delhi, India, pp-95, 19th -20th Dec. 2016.

Distinguished Visitors to the Departments:

SI No	Name of the Visitors & Designation	Date of visit	Purpose of visit
1.	Tapas Roy, Manager CESE Ltd.	May 2016	BTECH VIVA VOCE
2.	Dr. SamarjitSengupta, Professor, Dept. of Electrical Engineering, Applied Physics, Calcutta, University, Kolkata, West Bengal	08.05.2016	MTECH Thesis Evaluation

3.	Prof. Sujit Biswas Professor , Jadavpur University	04.05.2016	MTECH Thesis Evaluation
4.	Prof. R. P. Singh, Physical Research Laboratory, Ahmedabad	10.05.2016	MTECH Thesis Evaluation
5.	Dr. Gayadhar Panda, associate Professor, NIT Meghalaya	09.05.2016	MTECH Thesis Evaluation

10.5 Other Activities:

RESEARCH PROJECTS

- Co-Investigator of the research project entitled ‘Non-contact Multidirectional Vibration Sensor using 2D Position Sensitive Detector’, Indian space Research Organization (ISRO), Govt. of India, Amount: 33.89 lakh, Duration: 2016-2018

NOTABLE ACHIEVEMENTS (AWARDS & RECOGNITION)

- Dr. Subhadeep Bhattacharjee, Assistant Professor of Electrical Engineering department has become Senior Member, IEEE (USA) in 2017.

STUDENT ACHIEVEMENT

Ms. Lalitha S., who completed her M.Tech in Power System specialization in 2016 has received POSOCO POWER SYSTEM AWARD in 2017 for her outstanding work during M.Tech Project.

11.0 ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

11.1 Introduction:

The Department of Electronics & Communication Engineering (E.C.E) was established in 2007 and Mr. Manik Bhowmik was the first H.O.D. of the then Electrical and Electronics Engineering (E.E.E). Since its inception the Department is growing in multidimensional direction in context to UG & PG teaching aspects. The department offers a wide range of courses which address almost the entire arena covering VVLSI, Nano-electronics, Modern era of Communication, Fabrication and Characterization of Nano Scaled Devices, Image Processing, Advance Microwave Electronics, Bio-Signal Processing, Non-Linear System Science to mention a few. The department aims to create competent Electronic and Communication Engineers to serve the needs of modern advance technology and the nation as a whole. The department always updates the entire course curriculum on a regular basis after discussion with academicians from institute of national repute and technologists from various renowned organizations by which our students can compete with the best with respect to knowledge and ability in the business and face the modern challenges of today's Electronics and allied industries and institutions where change is the norm. Among all branches of Engineering Sciences, Electronics and Communication Engineering changes at extreme fast pace, so fast that which is brand new product for today becomes obsolete in the very next day with respect to science and engineering of this branch. Considering all the said aspects, the department possesses a qualified and experienced team of faculty members to carry out its legacy. The major thrust areas of the department are VLSI and Nano-Technology, Nano-Electronics, Microwave, Image Processing, Optoelectronics, Control Engineering and Communication Systems. The Department is deeply involved in multidimensional aspects of teaching and research under the able leadership of Mr. Atanu Chowdhury, the present H.O.D. The Department offers Ph.D courses in Nano-electronics, Microwave, VLSI, and Image Processing, to name a few. The students of this branch have been placed in various reputed R&D organizations and eminent companies in India and abroad.



Fig 1: VLSI Laboratory



Fig 2: Control System Lab



Fig 3: Communication Laboratory



Fig 4: Nano Electronics Laboratory

11.2 Academic Programme:

The department of Electronics & Communication Engineering currently offers the following programs:-

Under Graduate programme: B.Tech in Electronics & Communication Engineering (4 Years)

Post Graduate programmes: M.Tech (2 years) in two specializations-

- (i) VLSI Design
- (ii) Communication Engineering.

The Department also offers Ph.D courses in Nano-electronics, Microwave, VLSI, Image Processing, Bio-Signal Processing, to name a few.

11.3 Faculty and their Activities:

Short-Term Courses/ Workshops/ Seminar/ Symposia/ Conferences organized by the faculty members:

Sl. No	Co-ordinators	Title	Period
Short Term Courses			
1.	Dr. Sambhu Nath Pradhan	Workshops on CMOS, Mixed Signal and Radio Frequency Vlsi Design	30th January, 2017 to 4th February, 2017
2.	Mr.Biman Debbarma	Role of NoC on Multicore Microprocessors	18 th November 2016
3.	Mr. Mitra Barun Sarkar	Introduction to speech coding with Internet of Things (IoT) application	21- 25 November 2016

4.	Mr. Anirban Bhattacharjee	Xilinx tools training workshop	13-22 February, 2017
5.	Mitra Barun Sarkar	One day National Workshop on 'Challenges and opportunities of Emerging Nanotechnology for VLSI Nanoelectronics.	21 st January 2016

Short-Term Courses/ Workshops/ Seminars/ Symposia/ Conferences/ Training attended by the Faculty in Academic Institutions and Public Sector Undertakings:

Sl. No.	Name of Faculty	Title	Period
Workshop:			
1.	Mr. Apangshu Das	One week ISTE STTP on 'CMOS, Mixed Signal and Radio frequency VLSI Design' conducted by IIT Kharagpur.	30 th January to 04 th February 2017
2	Mr. Abhishek Nag	One week ISTE STTP on 'CMOS, Mixed Signal and Radio frequency VLSI Design' conducted by IIT Kharagpur.	30 th January to 04 th February 2017
3	Dr. Sambhu Nath Pradhan	SMDP-C2SD:ZOPP Workshop	21-22 October, 2016
4	Mr. Atanu Chowdhury	Strategies in Power Electronics	20-22 January, 2017
5	Mr. Atanu Chowdhury	Academic Environment In Technical Education: Future Perspectives	16-17 March 2017
6	Mr. Manik Bhowmik	Academic Environment In Technical Education: Future Perspectives	16-17 March 2017
7	Mr. Anirban Bhattacharjee	Academic Environment In Technical Education: Future Perspectives	16-17 March 2017
8	Mr. Mitra Barun Sarkar	Academic Environment In Technical Education: Future Perspectives	16-17 March 2017
9	Mr. Biman Debbarma	Recent Advances in Computer Architecture	May 30 to June 3, 2016.
10.	Ms. Anandita Goswami	One week workshop on CMOS, Mixed Signal and Radio frequency VLSI Design conducted by IIT Kharagpur.	30 th January to 4 th February, 2017
11.	Mr. Kamallesh Debnath	One week workshop on CMOS, Mixed Signal and Radio frequency VLSI Design conducted by IIT Kharagpur.	30 th January to 4 th February, 2017
12.	Dr. Apurba Chakraborty	One week workshop on CMOS, Mixed Signal and Radio frequency VLSI Design conducted by IIT Kharagpur.	30 th January to 4 th February, 2017
13.	Dr. Apurba Chakraborty	Introduction to speech coding with Internet of Things Application, at NIT Agartala, from November 21 st - 25 th , 2016.	21 st - 25 th November, 2016.
14.	Mr. Mitra Barun Sarkar	Two week ISTE STTP on CMOS, MIXED SIGNAL AND RADIO FREQUENCY VLSI DESIGN	30 th January to 4 th February, 2017

Conference:			
1.	Mr. Abhishek Nag	National Conference on Engineering Problems and Application of Mathematics EPAM-2016	11-12 June 2016
2.	Mr. Atanu Chowdhury	International Conference on Advancement of computer communication & Electrical Technology 2016 (ACCET 2016)	21-22 October, 2016
3.	Ms. Anandita Goswami	2 nd World Conference on Applied Science and Technology	29 -30 December, 2016
4.	Dr. Sambhu Nath Pradhan	Conference on Devices for Integrated Circuit (DevIC) 2017	23-24 March, 2017
5.	Mr. Mitra Barun Sarkar	National Conference on Engineering Problems and Application of Mathematics EPAM-2016	11-12 June 2016
Training:			
Short term Course:			
1.	Dr. Sambhu Nath Pradhan	GIAN course on 'Charge and Spin Based Electronics: From Devices to Circuits and Systems'	13-24 June 2016
2.	Mrs. Smita Banik	GIAN course on 'PT-symmetry and its realization in experimental systems: theory and applications'	13-17 February 2017
3.	Ms. Anandita Goswami	GIAN course on 'Introduction to Speech Coding with Internet of Things (IoT) Applications'	21-25 November, 2016

Fellowships of Academics and Professional Societies:

<i>Sl. No.</i>	<i>Name of Faculty</i>	<i>Level</i>
1.	Mr. Atanu Chowdhury	Life Member - ISTE
2.	Mr. Atanu Chowdhury	Life Member - ISI
3.	Mr. Atanu Chowdhury	Associate Member - IEI
4.	Mr. Manik Bhowmik	Life Member - ISTE
5.	Dr. Tamasi Moyra	Life Member - AMIE
6.	Dr. Sambhu Nath Pradhan	Fellow - GIST
7.	Mr. Mitra Barun Sarkar	Member - IAENG

11.4 Research and Consultancy:

A good number of projects (funded by DST/AICTE/DeitY etc.) are currently running in the ECE Department.

Sponsored Research Projects:

<i>Sl. No.</i>	<i>Title</i>	<i>Period</i>	<i>Funding Agency</i>	<i>Amount (in lakhs)</i>	<i>Co-ordinators</i>
1.	SMDP-C2SD Project	Dec. 2014 to Dec. 2019	DeitY	19.95	Dr. Sambhu Nath Pradhan

Research Publications:

Total No. of papers published in Refereed International Journals	:25
Total No. of papers presented in National Conference	:06
Total No. of papers presented in International Conferences	:07
Total No. of Books published	:01

In Refereed International Journals:

1. Abhishek Nag, Sambhu Nath Pradhan, 'An Autonomous Clock Gating Technique in Finite State Machines Based on Registers Partitioning', Journal of Circuits, Systems, and Computers (JCSC), Vol. 25, Issue No. 5, Pg. No. 1650033-1 to 1650033-21, Year 2016.
2. Abhishek Nag, Sambhu Nath Pradhan, 'Leakage Reduction of SRAM-Based Look-Up Table Using Dynamic Power Gating', Journal of Circuits, Systems, and Computers (JCSC), Vol. 26, Issue No. 3, Pg. No. 1750041-14 to 1750041-25, 2017.
3. Sambhu Nath Pradhan, Suman Bhowmik, Priyanka Choudhury, Debanjali Nath, Abhishek Nag, Debajit Deb and Bikram Paul, 'Design of new high speed and low-energy dynamic PLA', International Journal of Electronics Letters, Vol. No. 4, Issue 1, Pg. No. 87-92, 2016.
4. Abhishek Nag, Sambhu Nath Pradhan, 'An Autonomous Clock Gating Technique in Finite State Machines Based on Registers Partitioning', Journal of Circuits, Systems, and Computers (JCSC), Vol No. 25, Issue No. 5, Pg. No. 1650033-1 to 1650033-21, 2016.
5. Abhishek Nag, Sambhu Nath Pradhan, 'Leakage Reduction of SRAM-Based Look-Up Table Using Dynamic Power Gating', Journal of Circuits, Systems, and Computers (JCSC), Vol. No. 26, Issue no. 3, Pg. No. 1750041-14 to 1750041-25, 2017.
6. S.N. Pradhan, S. Bhowmik, P.Choudhury, D. Nath, A. Nag, D. Deb and B.Paul, 'Design of new high speed and low-energy dynamic PLA', International Journal of Electronics Letters, Vol. No. 4, Issue No. 1, Pg. No. 87-92, 2016.
7. D. Nath, P.Choudhury and S.N Pradhan, "Hybrid Approach of Within-Clock Power Gating (WCPG) and Normal Power Gating to Reduce Power," Vol. No. 25, Pg. No. 1650044-1 to 1650044-26, 2016.
8. P.Choudhury and S.N Pradhan, "Power-Area Trade-off in Power Gated FSM Synthesis", Vol. No. 2, Pg. No. 13-29, 2016.
9. D.Sarkar, T. Moyra &P. Mondal, "An improved parameter extraction scheme for dumbbell shaped defected ground structure", Vol. No. 70, Issue – 4, Pg. No. 500-509, 2016.
10. Dwipjoy Sarkar, Tamasi Moyra, Pratik Mondal, "Parasitic effect compensation of defected ground structure and its application to design of bandpass filter", Waves in Random and Complex Media (Taylor & Francis), Vol. No. 26, Issue No. 4, Pg. No. 458–475, 2016.
11. Dwipjoy Sarkar, Tamasi Moyra, Lakhindar Murmu, "An ultra-wideband (UWB) bandpass filter with complementary split ring resonator for coupling improvement", AEU - International Journal of Electronics and Communications (Elsevier), Vol. No. 71, Issue – 1, Pg. No. 89–95, 2017.
12. Dwipjoy Sarkar, Tamasi Moyra, "An improved parametric analysis of CSRR loaded with microstrip line for ultra wide band (UWB) frequency range", Microwave and Optical Technology Letters (Wiley), Vol. No. 59, Issue-3, Pg. No. 661–664, 2017.

13. Dwipjoy Sarkar, Tamasi Moyra, "A Low Cost Electrically Tunable Bandpass Filter with Constant Absolute Bandwidth", *AEU - International Journal of Electronics and Communications (Elsevier)*, Vol. No. 77, Issue-7, Pg. No. 156–162, 2017.
14. Priyansha Bhowmik, Tamasi Moyra, "Modelling and Validation of a Compact Planar Butler Matrix by Removing Crossover", *Wireless Personal Communications (Springer)*, Vol. No. 10.1007/s11277-017-4158-7, Pg. No. 1-12, 2017.
15. S. N. Pradhan, P. Choudhury, D. Nath, 'Transistor Level Realization of Power Gated FSM', *International Journal of Computer Aided Engineering and Technology*, Vol. No. 9, Issue-3, Pg. No. 351-371, 2017.
16. A. Nag, D. Nath and S. N. Pradhan, 'Leakage Reduction of SRAM Based Look Up Table Using Dynamic Power Gating', *Journal of Circuits, Systems, and Computers (JCSC)*, Vol. No. 26, Issue-3, Pg. No. 1750041(12), March 2017.
17. L. Maharana, T. Sarkar, S. N. Pradhan, 'Look up Table Based Low Power Analog Circuit Testing', *International Journal of Engineering (IJE), TRANSACTIONS C: Aspects*, Vol. No. 29, Issue-9, Pg. No. 1247-1256, September 2016.
18. A. Das and S. N. Pradhan, 'Shared Reed-Muller Decision Diagram based Thermal-Aware AND-XOR Decomposition of Logic Circuits', *Journal of VLSI Design*, Pg. No. 3191286, 14 pages, 2016.
19. T. Sarkar, S. Chakraborty, B. Paul and S. N. Pradhan, 'Thermal Aware SOC Testing by Introducing Cooling Period', *IETE Technical Review*, Vol. No. 34, Issue-2, Pg. 113-121, 2016.
20. D. Nath, P. Choudhury and S. N. Pradhan, 'Hybrid Approach of Within-Clock Power Gating (WCPG) and Normal Power Gating to Reduce Power', *Journal of Circuits, Systems, and Computers (JCSC)*, Vol. 25, Issue-5, Pg. 1650044-1 to 1650044-26, 2016.
21. A. Nag and S. N. Pradhan, 'An Autonomous Clock Gating Technique in Finite State Machines Based on Registers Partitioning', *Journal of Circuits, Systems, and Computers (JCSC)*, Vol. No. 25, Issue-5, PP. 1650033-1 to 1650033-21, 2016.
22. P. Choudhury and S. N. Pradhan, 'Power-Area Trade-off in Power Gated FSM Synthesis', *International Journal of Circuits and Architecture Design*, Vol. 2, Issue-1, Pg. 13-29, 2016.
23. T. Majumder, K. Debnath, S. Dhar, J. J. L. Hmar, and S. P. Mondal, 'Nitrogen-Doped Graphene Quantum Dot-Decorated ZnO Nanorods for Improved Electrochemical Solar Energy Conversion', *Energy Technology*, Vol. 4, Issue 10.1002/ente.201600007, Pg. 950–958, 8 August 2016.
24. Tanmoy Majumder, Saurab Dhar, Kamallesh Debnath, Suvra Prakash Mondal, 'Role of S, N co-doped graphene quantum dots as a green photosensitizer with Ag-doped ZnO nanorods for improved electrochemical solar energy conversion', *Materials Research Bulletin*, 2017.
25. Kumar D, Moyra T, Deb P.K, Tarun T, 'Dual-band microstrip patch antenna using frequency selective surface', pp-1721-1725, 2017.

In Proceedings of National Conference:

1. Abhishek Nag, Sambhu Nath Pradhan, 'An autonomous power gated TILE architecture implementing FSMs', *National Conference on Engineering Problems and Application of Mathematics EPAM-2016*, NIT Agartala, 11/06/2016 to 12/06/2016.
2. Anirban bhattacharjee, 'Design and simulation of pifa loaded with metamaterial superstrate at 10 ghz', *NCRTET 2017*, TIT Agartala.
3. Manik Bhowmik, Prakash Chaurasia, Rishi Nigam, G. Arun Kumar, 'Design of SIW Based Slot Antenna at 12.1 GHz', *National Conference on Recent Trends in Engineering and Technology NCRTET-2017*, TIT Agartala, 17-18 March, 2017.

4. Prakash Chaurasia , Rishi Nigam , Manik Bhowmik, ‘SIW Based Slot Antenna In X-Band Using Rogers/RT duroid 5880 As Substrate’, National conference on Recent Advances and Innovations in Chemical and Materials Science, JN PG College,Lucknow, 23-24 Feb,2017.
5. Rishi Nigam , Prakash Chaurasia , Manik Bhowmik, ‘SIW Based Band Pass Filter In Ku-Band Using Rogers/RT duroid 5880 As Substrate With Circular Post’, National conference on Recent Advances and Innovations in Chemical and Materials Science, JN PG College,Lucknow, 23-24 Feb,2017.
6. Mitra Barun Sarkar et. al, "Defect States Analyses of E-Bean Evaporated TiO₂ and SiO_x Thin Films Structures for Application in Photo detectors", National Conference on Engineering Problems and Application of Mathematics EPAM-2016, NIT Agartala, 11/06/2016 to 12/06/2016.

In Proceedings of International Conference:

1. Dharmvir Kumar, Tamasi Moyra, Partha Kumar Deb and Tanay Tarun, “Dual-Band Microstrip Patch Antenna Using Frequency Selective Surface”, International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET),2017, Chennai, Vol. 978-1-5090-4442-9/17/\$31.00©2017, Pg. 1721, 22-24 March,2017.
2. Pratibha Verma, Tamasi Moyra and Dwipjoy Sarkar, ‘Design of a Coplanar Waveguide (CPW) Bandpass Filter with Wide Harmonic Suppression’, International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), 2017, Chennai, Vol. 978-1-5090-4442-9/17/\$31.00©2017, Pg. 1128, 22-24 March, 2017.
3. A. Das and S. N. Pradhan, ‘Thermal-Analysis Based on Area-Power and Power-Density trade-offs of Reduced Ordered Binary Decision Diagram for Combinational Logic Networks’, In Proc. of Devices for Integrated Circuit (DevIC 2017), IEEE KGEC, Kalyani Government Engineering College, March 23-24, 2017.
4. Anirban bhattacharjee, ‘Design of PIFA with metamaterial superstrate at 2.4 ghz’, ICCSP 2017, Chennai.
5. Atanu Chowdhury, D. Ghoshal, Tushar Kanti Bera, Badal Chakraborty& M.L. Naresh Kumar, ‘Comparison of two and four electrode methods for studying the impedance variation during cucumber storage using Electrical impedance Spectroscopy (EIS)’, Proceeding of International Conference on Advancement of computer communication & Electrical Technology 2016 (ACCET 2016), Berhampore, West Bengal, Pg. 261–265, October,21-22, 2016.
6. Tushar Kanti Bera , Sampa Bera,Atanu Chowdhury, D. Ghoshal, , Badal Chakraborty, ‘Electrical Impedance Spectroscopy (EIS) based Fruit Charaterization:A Technical Review’, Proceeding of International Conference on Advancement of computer communication & Electrical Technology 2016 (ACCET 2016), Berhampore, West Bengal, Pg. 279-288, October,21-22, 2016.

Books Published:

<i>Name of The Authors Published</i>	<i>Title of the books</i>	<i>Date of Publication of the books</i>
N. Dey, A. Ashour and S Acharjee	Applied Video Processing in Surveillance and Monitoring Systems	October,2016

Distinguished Visitors to the Departments:

<i>Sl. No.</i>	<i>Name of the Visitors and Designation</i>	<i>Date of Visit</i>	<i>Purpose of Visit</i>
1	Prof. Monojit Mitra, Professor, IEST Shibpur	25 th April 2016	PhD. Thesis Evaluation
2	Prof. Hafizur Rahman, Professor, IEST Shibpur	06-07 May 2016	M.Tech Thesis Evaluation
3	Prof. D. R. Poddar, Emeritus Professor, Jadavpur University	10-11 May 2016	M.Tech Thesis Evaluation
4	Prof. Satyabrata Jit, Professor, IIT BHU	1 st September 2016	PhD. Thesis Evaluation
5	Prof. A.B Bhattacharya, Professor, NIT Durgapur	26 th October 2016	PhD. Thesis Evaluation
6	Prof. Subhananda Chakrabarti, Professor, IIT Bombay	8 th November 2016	PhD. Thesis Evaluation
7	Dr. John Jose, Assistant Professor, IIT Guwahati	17-18 th November 2016	Technical Session on the topic 'Role of Network chips in Multicore Processors '
8	Prof Ogunfunmi, Professor	21-25 th November, 2016	Foreign Expert for the GIAN Workshop titled, Introduction to speech coding with Internet of Things Application
9	Prof. Satyabrata Jit, Professor, IIT BHU	16 th January, 2017	PhD. Thesis Evaluation

12.0 ELECTRONICS & INSTRUMENTATION ENGINEERING DEPARTMENT

12.1 Introduction :

The Institute was established in the year of 1965 and was initially affiliated to University of Calcutta and thereafter re-affiliated to Tripura University in 1987. The Institute is approved by AICTE, New Delhi. During the inception in 1965, this institute started with Bachelor of Engineering Courses in Civil, Mechanical and Electrical Engineering. The Institute has been converted from state Engineering College to National Institute of Technology Agartala in the year 2006. Presently B.Tech course in Electronics & Instrumentation Engineering Department has been started from July 2009. The first batch of B.Tech students had passed out in May 2013. Best endeavor is being put for the recruitment of qualified and competent faculty members from all over the country to meet the requirements and status of the esteemed Institute.



Fig.: Department of Electronics and Instrumentation Engineering

12.2 Lab Facilities:

Electronics and Instrumentation Engineering Department is now becoming well-equipped with the laboratories. But a few number of common laboratories of Electrical engineering and Electronics and communication engineering departments are jointly being used for the routine laboratory classes of the students. The Industry oriented two new laboratories 'DCS & PCS' and 'Hydraulic & Pneumatic' control system are already set up in our department. The department has 18 nos. of Laboratories i.e. (1) Network Analysis and Synthesis lab, (2) Electrical Measurement and Measuring Instruments lab, (3) Analog Electronic Circuits lab,

(4) Programming in C lab, (5) Instrumentation Devices -I Lab, (6) Digital Electronics Lab, (7) Numerical Methods and Analysis Lab, (8) Industrial Instrumentation lab, (9) Electronic Instrumentation and Measurement lab, (10) Linear Control Systems lab, (11) Process Control -I Lab, (12) Power Electronics Lab, (13) Microprocessor and microcontroller Lab, (14) Process Control-II, (15) Digital Signal Processing Lab, (16) Digital Image Processing Lab (Elective-I), (17) Telemetry & Remote Control Lab and (18) Industrial Automation & Control Lab (Elective-II).



Fig: Some photos of laboratory equipments.

12.3 Research and Consultancy :

Research Publications:

Total No. of papers published in Refereed International Journals	: 13
Total No. of papers presented in International Conferences	: 03

In Refereed International Journals:

1. J.K.Rakshit, J.N.Roy, 'Silicon micro-ring resonator-based all-optical digital-to-analog converter', 27th September 2016 (online), Volume 34, Issue 1, pp 84–92.
2. D Nath,P Dey,D Deb, J. K Rakshit and J. N Roy, 'Fabrication and characterization of organic semiconductor based photodetector for optical communication', 19th jan,2017, 5(2).

3. Aparupa Kar, Nabamita Goswami, Ardhendu Saha, 'Long-range surface-plasmon-enhanced all-optical switching and beam steering through nonlinear Kerr effect', 1/1/2017, 123(1).
4. Aparupa Kar, Nabamita Goswami, and Ardhendu Saha, 'Long-range surface plasmon-induced tunable ultralow threshold optical bistability using graphene sheets at terahertz frequency', 10/3/2017, 56.
5. Priyanka Dey, Ardhendu Saha, "Additive solc action in aperiodically poled MgBaF₄ for deep UV applications", Dec-16, 127.24.
6. Priyanka Dey, Ashutosh Dash, Ardhendu Saha, "Tunable folded solc filter in bulk anisotropic crystal", Nov-16, Vol. 127.
7. Priyanka Dey, Ie Mei Bhattacharyya, and Ardhendu Saha, "Dispersion compensated optical amplifier in Ti-diffused PPLN ridge waveguide", Oct-16, 55 (30).
8. Prasenjit Ghorai, Prof. Somanath Majhi and Saurabh Pandey, "A new modelling and identification scheme for time-delay systems with experimental investigation: a relay feedback approach", 1-Jan-17, Pages 1932-1940.
9. Prasenjit Ghorai, "Modelling and Identification of Real Time Processes Based on Non-Zero Setpoint Autotuning Test", Nov-16, 139 (2).
10. Prasenjit Ghorai, Prof. Somanath Majhi and Saurabh Pandey, "Dynamic model identification of a real-time simple level control system", 16 Aug'2016, 3.
11. J.K.Rakshit, J.N.Roy, "Design of all-optical universal shift register using non-linear micro-ring resonator", Dec-16, 15 (4).
12. J.K.Rakshit, J.N.Roy, "All-optical ultrafast switching in silicon micro-ring resonator and its application to design MUX/DEMUX, adder/subtractor and comparator circuit", December 2016, 46 (1).

In Proceedings of International Conference:

1. J.K.Rakshit, J.N.Roy, '2016 URSI Asia-Pacific Radio Science Conference', South Korea, (21-25) August 2016.
2. Prasenjit Ghorai, Prof. Somanath Majhi and Saurabh Pandey, '55th IEEE Conference on Decision and Control, to be held in ARIA Resort & Casino, Las Vegas, USA on December 12-14, 2016', Las Vegas, USA.
3. Prasenjit Ghorai, Prof. Somanath Majhi and Saurabh Pandey, "Control Conference (ICC), 2017 Indian", IIT Guwahati, 1-Jan-17.

13.0 HUMANITIES & SOCIAL SCIENCES DEPARTMENT

13.1 Introduction :

The ultimate objective of any education system is to produce human capital who will be responsible citizen, besides excelling in his/her own domain. To produce a complete technocrat, only technical knowledge seldom serves the purpose. He/ She has to be socially aware with a compassionate human faculty. The Department of Humanities & Social Sciences was established with an objective of making an engineer enlightened with adequate knowledge of his/ her surroundings. The approach of the Department has always been interdisciplinary.

The Department of Humanities and Social Sciences has a language communication skills and multimedia lab which is developed in collaboration with CACM, IIT Kharagpur. The lab which functions on a carefully designed software ISILS WIRELESS interconnects all the students in the classroom into an integrated and active mode of learning facilitating spontaneous interaction among the students themselves along with the instructor. The lab concerns to bypass the traditional lecture-based mode of learning and aims at rendering an interactive classroom atmosphere with technological support to help students come to terms with the anxiety of second language learning and channelize their latent linguistic competence into developing communication skills. The departments having a Laboratory i.e. Language Lab.



Language LAB

13.2 Academic Programme :

The Department of Humanities and Social Sciences offers undergraduate courses in English, Costing, Economics and Management for the B. Tech. students and English for BS-MS as well as BT-MT. The department also offers postgraduate courses in Economics to the M.Tech. students, English and Management to the MCA student and English and Economics to the MBA students. Besides that the Department is also running Ph.D. programme.

13.3 Faculty and their Activities:

Short-Term Courses/ Workshops/ Seminars/ Symposia/ Conferences/ Training attended by the Faculty in Academic Institutions and Public Sector Undertakings:

Sl. No.	Name of Faculty	Title	Period
Workshop:			
1.	Kaju Nath	Academic Environment in Technical Education - Future Prospectives	16 th -17 th March, 2017

2.	Amit Bikram Choudhury	Academic Environment in Technical Education - Future Prospectives	16 th -17 th March, 2017
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13.4 Research and Consultancy :

Sponsored Research Projects:

Sl. No.	Title	Period	Funding Agency	Amount (in lakhs)	Co-ordinators
1	Preparation of Integrated Cluster Action Plan (ICAP)- Hrishyamukh Cluster: District: South Tripura, Tripura	1 st April - 30 th September, 2016	Department of Rural Development, Government of Tripura	13.84	Dr. Debasis Neogi (Co-Coordinator)
2	Preparation of Integrated Cluster Action Plan (ICAP)- Nirvoypur Cluster: District: Sipahijala, Tripura	1 st April - 30 th September, 2016	Department of Rural Development, Government of Tripura	13.84	Dr. Debasis Neogi (Co-Coordinator)

Research Publications:

- (1) D. Neogi and A.B. Chowdhury, 'Identifying Suitability of Commodities for Trade among Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation (BIMSTEC) Nations: An Application of Revealed Comparative Advantage Approach', International Journal of Management Science and Business Research, 5, 15-27,(2016).
- (2) S. Acharjee and G. Khuraijam, 'Bhurring Image of Nation through Porous Border in Amitav Ghosh's The Circle of Reason and Countdown', Modern Research Studies-An International Journal of Humanities and social Sciences, 3, 1006-1019, (2016).
- (3) S. Acharjee and G. Khuraijam, 'Subalterns Question the Demanded Unity in the Name of Nationalism in Amitav Ghosh's Countdown and The Hungry Tide', Spectrum, 5, 4-10, (2017).
- (4) A. Nongmaithem, 'Communication', Journals of Research in Humanities and Social Science (JRHS), 6, 36-38,(2016).
- (5) A. Nongmaithem, 'Soft Skill: A Challenge', International Journal of English Language, Literature and Translation Studies (IJELR), 2, 127-129, (2016).
- (6) A. Nongmaithem, 'Literature and Society: A glimpse into the world of Manipur Literature', International Journal of English Language, Literature & Humanities (IJELLH), 4, 68-77, (2016).
- (7) A. Nongmaithem, 'Re- Visiting Nnu Ego in Buchi Emecheta' The Joy of Motherhood' International Journal of English Language, Literature & Humanities (IJELLH), 4, 519-526, (2016).
- (8) A. Nongmaithem, 'ONE PART WOMAN: A REVIEW', International Journal of English Language, Literature & Humanities (IJELLH), 7, 26-29, (2017).
- (9) A. Nongmaithem, 'The Role of Women in Divakaruni's Sister of my Heart', International Journal of Research in Humanities and Social Science (JRHSS), 5, 46-50, (2017).
- (10) A. Nongmaithem, 'Heavy Boot: A Study', American Journal of Arts and Humanities, 1, 39-43, (2016).
- (11) A. Nongmaithem, 'A Study of Pacha's An old Man Hard of Hearing', International Journal of Research in Humanities and Social Science (JRHS), 5, 1-3,(2017).

- (12) A. Nongmaithem, 'Music and Communication Skills', Imperial Journal of Interdisciplinary Research (IJIR), 5, 1794-1796, (2017).

Total No. of papers published in Refereed International Journals : 12

In Refereed International Journals:

- (1) D. Neogi and A.B. Chowdhury, 'Identifying Suitability of Commodities for Trade among Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation (BIMSTEC) Nations: An Application of Revealed Comparative Advantage Approach', International Journal of Management Science and Business Research, 5, 15-27, (2016).
- (2) S. Acharjee and G. Khuraijam, 'Bhurring Image of Nation through Porous Border in Amitav Ghosh's The Circle of Reason and Countdown', Modern Research Studies-An International Journal of Humanities and social Sciences, 3, 1006-1019, (2016).
- (3) S. Acharjee and G. Khuraijam, 'Subalterns Question the Demanded Unity in the Name of Nationalism in Amitav Ghosh's Countdown and The Hungry Tide', Spectrum, 5, 4-10, (2017).
- (4) A. Nongmaithem, 'Communication', Journals of Research in Humanities and Social Science (JRHS), 6, 36-38, (2016).
- (5) A. Nongmaithem, 'Soft Skill: A Challenge', International Journal of English Language, Literature And Translation Studies (IJELR), 2, 127-129, (2016).
- (6) A. Nongmaithem, 'Literature and Society: A glimpse into the world of Manipur Literature', International Journal of English Language, Literature & Humanities (IJELLH), 4, 68-77, (2016).
- (7) A. Nongmaithem, 'Re- Visiting Nnu Ego in Buchi Emecheta' The Joy of Motherhood' International Journal of English Language, Literature & Humanities (IJELLH), 4, 519-526, (2016).
- (8) A. Nongmaithem, 'ONE PART WOMAN: A REVIEW', International Journal of English Language, Literature & Humanities (IJELLH), 7, 26-29, (2017).
- (9) A. Nongmaithem, 'The Role of Women in Divakaruni's Sister of my Heart', International Journal of Research in Humanities and Social Science (JRHS), 5, 46-50, (2017).
- (10) A. Nongmaithem, 'Heavy Boot: A Study', American Journal of Arts and Humanities, 1, 39-43, (2016)
- (11) A. Nongmaithem, 'A Study of Pacha's An old Man Hard of Hearing', International Journal of Research in Humanities and Social Science (JRHS), 5, 1-3, (2017).
- (12) A. Nongmaithem, 'Music and Communication Skills', Imperial Journal of Interdisciplinary Research (IJIR), 5, 1794-1796, (2017).

Distinguished Visitors to the Departments:

Sl. No.	Name of the Visitors and Designation	Date of Visit	Purpose of Visit
01	Saundarjya Borbora Professor Department of HSS IIT Guwahati	21 st – 22 nd April, 2016	External Expert of Ph.D. Viva Voce Examination

14.0 MECHANICAL ENGINEERING DEPARTMENT

14.1 Introduction

The Department of Mechanical Engineering at NIT Agartala was formed in 1965, when the institute started as a State Engineering College by the name of Tripura Engineering College. Currently, the department has more than 352 students in the B.Tech. Program, 83 students in the M.Tech. programme and 45 Scholars in the Ph.D. programme, which are supported by 30 faculty members and 24 staff.

Since its inception, the department has always been recognized for excellence in academics. Over the years, the department has strengthened its research activities, introduced new M.Tech academic programmes and contributed to the society by taking part in consultancy work. The focus of the department has been in developing the state-of-art computational and experimental facilities for teaching and research. The department comprises of about 16 laboratories equipped with sophisticated instruments.

The major research areas include advanced / non-traditional machining processes, aerodynamics, bearing design, CAD/CAM, combustion, composites, computational contact impact analysis, computational fluid mechanics, computational mechanics, convection, refrigeration systems, energy conservation fatigue, wear and failure analysis, finite element methods, fracture mechanics, heat transfer, internal combustion engines, materials processing and characterization, metal casting, metal forming, multi-phase flows, nano-fluids, propulsion, renewable energy, robotics, rotordynamics, soft computing in design and manufacturing, welding, , tribology, turbomachines, turbulence, vibration etc.

Vision of the Department

To produce high quality Mechanical Engineers with techno-managerial ability to contribute in Industry and Research areas maintaining professional ethics and values.

Mission of the Department

- To create knowledge through research in the science and technology of Mechanical Engineering; to share knowledge through educational programmes and the dissemination of our new discoveries; and to develop the professional potential of faculty, staff, and students.
- To offer an inviting, nurturing, and challenging environment, this is responsive to the intellectual, social, and cultural needs of a diverse learning community.
- To have research portfolio encompassing traditional areas of Mechanical Engineering, as well as emerging and interdisciplinary ones.
- To foster creativity and critical thinking skills through research and design experiences.

14.2 Lab Facilities:

The Mechanical Engineering Department have 13 nos. of Laboratories i.e. (1) Vibration Lab, (2) Mechanical Measurement and Metrology Lab, (3) Refrigeration & Air conditioning Lab, (4) Computational Lab-1 & 2, (5) Tribology Lab, (6) Thermal Power Lab, (7) Wind Tunnel Lab, (8) IC Engine Lab, (9) Strength Of Material Lab, (10) Fluid Mechanics Lab, (11) Heat Transfer Lab, (12) CNC Machine Lab and (13) FMS Laboratory.



Vibration Laboratory



Metrology Laboratory



Refrigeration & Air Conditioning Laboratory



Computational Laboratory-II



Machine Shop

14.3 Faculty and their Activities:

Short-Term Courses/ Workshops/ Seminar/ Symposia/ Conferences organized by the faculty members:

Sl. No.	Co-ordinators	Title	Period
Workshops:			
1	Dr. Swapan Bhaumik	Academic Environment in Technical	16 th -17 th March,

		Education: Future Perspectives	2017
Seminar:			
1	Dr. Swapan Bhaumik	Setubandhan 2016 organised at Comilla, Bangladesh	14.05.2016
2	Dr. Swapan Bhaumik	Course Changing From Project to Research Speaker: Prof.(Dr.) Dipankar Sanyal, Professor, Mechanical Engineering Department, Jadavpur University	06.12.2016
3	Dr. Swapan Bhaumik	"Mechanics of FRP Composite Structures" Speaker: Prof.(Dr.) Debabrata Chakraborty, Professor, Mechanical Engineering Department, Indian Institute of Technology Guwahati	06.12.2016
4	Dr. Swapan Bhaumik	"Laser Material Processing Research: An IITKGP Experience" Speaker: Prof.(Dr.) Partha Saha Professor, Mechanical Engineering Department, Indian Institute of Technology Kharagpur	06.12.2016
5	Dr. Swapan Bhaumik	"Nano Fluid in Machining" Speaker: Dr. Sudharshan Ghosh, Associate Professor, Mechanical Engineering Department, Indian Institute of Technology Delhi	06.12.2016
6	Dr. Swapan Bhaumik	"Research in NIT System" Speaker: Prof.(Dr.) Rajat Gupta, Professor, Mechanical Engineering Department, National Institute of Technology Silchar	06.12.2016
7	Dr. Swapan Bhaumik	"Research Trends in Tribology in Mechanical Engineering Field" Speaker: Dr. Mihir Kumar Sarangi, Associate Professor, Mechanical Engineering Department, Indian Institute of Technology Kharagpur	06.05.2016
8	Dr. Swapan Bhaumik	"Research trends in Thermal Engineering Field" Speaker: Prof.(Dr). P K Das P Professor & Head, Mechanical Engineering Department, Indian Institute of Technology Kharagpur	06.05.2016
9	Dr. Swapan Bhaumik	"Application of CFD in Mechanical Engineering on" Speaker: Prof.(Dr.) Anoop Kumar Das, Professor & Head, Mechanical Engineering Department, Indian Institute of Technology Guwahati	07.05.2016
10	Dr. Swapan Bhaumik	"Research trends in Surface Engineering" Speaker: Prof.(Dr.) Goutam Majumder, Professor, Mechanical Engineering Department, Jadavpur University	07.05.2016
11	Dr. Swapan Bhaumik	Interacting with the students & Faculty Members Speaker: Professor (Dr.) R. S. Parmer, Former Professor, MED, IIT Delhi	04.11.2016

		and Immediate Past Vice President	
12	Dr. Swapan Bhaumik	"Research trends in Modeling of Manufacturing Process" Speaker: Prof. (Dr.) U S Dixit, Professor, Mechanical Engineering Department, Indian Institute of Technology Guwahati	07.05.2016
13	Dr. Swapan Bhaumik	"R ² : ROBOTICS TO RURAL" Speaker: Prof. (Dr.) S K Saha, Professor & Head, Mechanical Engineering Department, Indian Institute of Technology Delhi	06.05.2016
14	Dr. Swapan Bhaumik	"IT Trends in Manufacturing Industry" Speaker: Er. Anirban Baidya, Senior Service Delivery Manager, Tieto Software Technologies Ltd., Pune and an 1998 Alumnus of ME Department, NITA (Erstwhile Tripura Engineering College)	06.05.2016
15	Dr. Swapan Bhaumik	"Research trends in Engine & Fuel Research" Speaker: Prof. (Dr.) Avinash Kumar Agarwal, Professor, Mechanical Engineering Department, Indian Institute of Technology Kanpur	06.05.2016
16	Dr. Swapan Bhaumik	"Observance of Vigilance Awareness Week-2016 the theme of Moral values, Ethics & Good Governance Practice" in association with ONGC, Tripura	03.11.2016

Short-Term Courses/ Workshops/ Seminars/ Symposia/ Conferences/ Training attended by the Faculty in Academic Institutions and Public Sector Undertakings:

Sl. No.	Name of Faculty	Title	Period
Workshop:			
1	Ankuran Saha	Advances in Non-Conventional Machining Processes. Organized by- Production Engineering Department, NIT Agartala funded by TEQIP – II.	09 th – 10 th May, 2016
2	Pinku Debnath	Academic environment in technical education: future perspectives Organised by- Mechanical Engineering Department, NIT Agartala.	16 th -17 th March, 2017
4.	Durbadal DebRoy	Condition Monitoring and Industrial Machineries Organised by- Organized by: Production Engineering Department, NIT Agartala	25 th -29 th April, 2016.
5	Abhishek Paul	Condition Monitoring and Industrial Machineries Organised by- Organized by: Production Engineering Department, NIT Agartala	25 th -29 th April, 2016.
6	Krishanu Gupta	Academic Environment in Technical Education: Future Perspectives	16 th -17 th March, 2017
7	Ashis Acharjee	Energy Audit and Management,	22 nd - 28 th March,

		Organized by: Deptt of Chemical Engg, MNNIT, Allahabad	2017
8	Arindam Sinha	Academic Environment in Technical Education: Future Perspectives	16 th -17 th March, 2017
9	John DebBarma	Academic Environment in Technical Education: Future Perspectives	16 th -17 th March, 2017
		Condition Monitoring of Industrial Machineries	25 th - 29 th April, 2016
10	Swapan Bhaumik	Two days National workshop on Academic Environment in Technical Education: Future Perspective, NIT Agartala	16th - 17th March, 2017
11	Swapan Bhaumik	One day workshop on Research Week- 2016", GTU, Ahmedabad	11 -12th April, 2016
12	Swapan Bhaumik	Two Days workshop on Recent Trends in Renewable Energy Technologies for Sustainable future with special reference to NE India", NIT Mizoram 2016	28th October, 2016
13	Swapan Bhaumik	4th Triennial International workshop Evolving Energy Models in Emerging Economics- Post COP21, Ahmedabad, Gujarat- 2016	12 - 14th December, 2016
14	Swapan Bhaumik	31st Indian Engineering Congress 2016 at Kolkata	18th Dec, 2016
15	Swapan Bhaumik	NIT Agartala Annual Alumni Meet at Chennai	24th July, 2016
16	Swapan Bhaumik	NIT Agartala Annual Alumni Meet at Kolkata	11th Sep, 2016
17	Swapan Bhaumik	NIT Agartala Annual Alumni Meet at Delhi	7th August, 2016
18	Swapan Bhaumik	NIT Agartala Annual Alumni Meet at Guwahati	13th Nov, 2016
19	Swapan Bhaumik	NIT Agartala Annual Alumni Meet at Mumbai	11th Dec, 2016
Conference:			
1.	Ankuran Saha	Emerging Materials: Characterization & Application. Organized by- NIT Durgapur	March 15 – 17 , 2017
2.	Ajay Biswas	International Conference on Materials, Manufacturing and Modelling (ICMMM - 2017) Organised by: The School of Mechanical Engineering, VIT University and State University of New York, Binghamton in association with ASME - VIT	09 - 11 March 2017
3	G.R.K.Sastry	1st International and 18th ISME Conference Organised by: .NIT Warangal	February 23rd – 25th, 2017
		Current Research topics in Power Nuclear and Fuel Energy(1sr ICRTEST) Organizedby: MREC,Hyderabad	25-27 th Oct,2016
		Power and Energy Conference, 2016. Organised By- ASME.	26 th -30 th June, 2016, Charlotte

4	Arindam Majumder	International Conference on Advanced Computing and Intelligent Engineering (ICACIE-2017) Organized By: C. V. Raman College of Engineering, Bhubaneswar	21 st - 23 rd December, 2016
5	S. C. Saha	International Conference on Trends in Welding Research Organized By: The University of Tokyo	11 th -14 th October, 2016
6	S. C. Saha	NCARIMMIEM-2016 Organized By: NIT Manipur	12 th - 13 th December, 2016
7	Swapn Bhaumik	6th International & 43rd National Conference on Fluid Mechanics & Fluid Power (FMFP- 2016), MNNIT Allalabad.	15th - 17th December, 2016
8	Swapn Bhaumik	6th International & 43rd National Conference on Fluid Mechanics & Fluid Power (FMFP- 2016), MNNIT Allalabad.	15th - 17th December, 2016
Seminar:			
1	Ankuran Saha	Induced Mechanical Properties and Advanced Applications of Natural Fibre Composites: Present Scenario and Future Scopes. Organized by- IEL, Tripura State Centre	19 th November 2016
2	Ajay Biswas	SMART – Technologies for Natural Resource Conservational and Sustainable Development Organised by: The Institution Of Engineers (India), West Bengal State Centre.	16 th - 18 th December, 2016

Visits Abroad by Faculty:

Sl. No.	Name of Faculty	Country Visited	Date	Purpose of Visit
1.	Dr. Ajay Biswas	Bangladesh	28 th -30 th January, 2017	57th Convention of The Institution of Engineers, Bangladesh (IEB) in Chittagong, Bangladesh
2	Dr. G. R. K. Sastry	U.S.A.	26 th -30 th June, 2016,	Oral presentation of a research paper
3	Dr. S. C. Saha	Japan	10 th October 2016	10th International Conference on Trends in Welding Research.
4	Dr. Swapn Bhaumik	Comilla, Bangladesh	14th May, 2016	Organising Setubandhan 2016 as Joint Convener as a International program between RI District 3240 India-3282 Bangladesh

Honours and Awards obtained:

Sl. No.	Name of Faculty	Name of Award	Awarded by	Award for	Date
1	Dr. G. R. K. Sastry	Eminent Educationalist	Kendriya Vidyalaya, NIT Agartala.	Academic Contribution	June 2016

Fellowships of Academics and Professional Societies:

Sl. No.	Name of Faculty	Level	Year
ISTE/ CSI and others			
1.	Dr. Swapan Bhaumik	Fellow of SEEM (Society of Energy Engineers and Managers)	2016
2.	Dr. Swapan Bhaumik	Council Member, IE(I)	2016
3.	Dr. Swapan Bhaumik	Member of Condition Monitoring Society of India.	2017
4.	Dr. Swapan Bhaumik	Selected as Member of Mechanical Engineering Division Board, Strategic Plan Implementation Committee and Equivalence Committee of The Institution of Engineers(India).	2017

1.4 Research and Consultancy :**Sponsored Research Projects:**

Sl. No.	Title	Period (Years)	Funding Agency	Amount (in lakhs)	Co-ordinators
1.	Parametric Optimization and Heat Transfer Study During Submersed Arc Welding	3	All india council for technical education (AICTE)	10.00	Dr. Ajay Biswas
2.	Modernization of fitting shop, carpentry shop, machine shop, automobile shop under workshop	3	All india council for technical education (AICTE)	12.00	Dr. Ajay Biswas
3	Effect of biodiesel-ethanol-Diethyl ether blends on performance, combustion and emissions of a CI engine under Hydrogen, CNG and LPG dual fuel mode	3	Science and Engineering Research Board (SERB), Govt. of India.	54.16	Dr. Rajsekhar Panua.

Industrial Consultancy:

Sl. No.	Name of the Faculty	Title	Industry	Amount (Rs)
1.	Dr. Swapan Bhaumik (Team Leader-Co-ordinator), Dr. John Debbarma (CO-co-ordinator), Dr. Ajay Biswas (Member) & Mr. Abhik Majumder (Member) of M E Deptt. and other Five faculty members of other Deptt.	Preparation of Integrated Cluster Action Plan (ICAP) under National Rurban Mission (NRUM) in Hrishyamukh and Nirvoypur cluster under South Tripura and Shepahijala District respectively.	Rural Development Department, Govt. of Tripura	27,67,268.00

2.	Majority of Faculties and supporting staff of the Department	Third party Inspection of 18014 Nos of Girls Bi-Cycle	School Education Department, Government of Tripura	3,72,890.00
3.	Prof. Pankaj Kr. Das, Dr. Swapan Bhaumik & other few faculty members	Testing of TMT Bar	PWD, UDD,GOT	3,18,000.00

Research Publications:

Total No. of papers published in Refereed International Journals	:	27
Total No. of papers presented in National Conference	:	06
Total No. of papers presented in International Conferences	:	14

In Refereed International Journals:

1. Ankuran Saha, Apurba Das, Amit Karmakar Effect of Some Structural Parameters on The Vibration of Pre-twisted Conical Shells – A Finite Element Approach, IJEST, December 2016, Volume 8, 245 – 260.
2. Ankuran Saha, Apurba Das, Amit Karmakar First Ply Failure Analysis of Delaminated Rotating Composite Conical Shells – A Finite Element Approach, Journal Name- IEI Series - C, DOI: 10.1007/s40032-017-0373-y.
3. Subrata Bhowmik, Rajsekhar Panua, Durbadal Debroy and Abhishek Paul, Artificial Neural Network Prediction of Diesel Engine Performance and Emission Fueled With Diesel–Kerosene–Ethanol Blends: A Fuzzy-Based Optimization, Journal of Energy Resources Technology, Doi: 10.1115/1.4035886, Volume 139.
4. P. Debnath and K. M. Pandey, Numerical Investigation of Detonation Combustion Wave in Pulse Detonation Combustor With Ejector", Journal of Applied Fluid Mechanics, DOI:10.18869/acadpub.jafm.73.238.27266, Volume 10, 725-733.
5. Pinku Debnath and K. M. Pandey Exergetic Efficiency Analysis of Hydrogen-Air Detonation in Pulse Detonation Combustor Using Computational Fluid Dynamics, International Journal of Spray and Combustion Dynamics, DOI: 10.1177/1756827716653344, Volume 9, 44-54.
6. Madhujit Deb, Bishop Debbarma, Arindam Majumder, Rahul Banerjee, Performance – emission optimization of a diesel-hydrogen dual fuel operation: A NSGA II coupled TOPSIS MADM approach, Energy, Elsevier., 15 December, 2016, Volume 41, 14330-14350, ISSN 0360-3199.
7. Madhujit Deb, Pinki Majumder, Arindam Majumder, Sumit Roy, Rahul Banerjee, Application of artificial intelligence (AI) in characterization of the performance–emission profile of a single cylinder CI engine operating with hydrogen in dual fuel mode: An ANN approach with fuzzy-logic based topology optimization, International Journal of Hydrogen Energy, Elsevier, <https://doi.org/10.1016/j.ijhydene.2016.07.016>, 24 August, 2016, Volume 41, 14330-14350, ISSN 0360-3199.
8. S Chakraborty, S. Kar, V Dey, S. K. Ghosh, Optimization and Surface Modification of Al-6351 Alloy Using Sic–Cu Green Compact Electrode By Electro Discharge Coating Process, Surface Review and Letters, 28th June 2016, vol-24, Issue-05, 1-12.
9. S. Kar, S Chakraborty, V Dey, S. K. Ghosh, Optimization of Surface Roughness Parameters of Al-6351 Alloy in EDC Process: A Taguchi Coupled Fuzzy Logic

- Approach, Journal of The Institution of Engineers (India): Series C, <https://doi.org/10.1007/s40032-016-0297-y>, 20th June 2016, ISSN-2250-0545, 1-12.
10. S Chakraborty, S. Kar, V Dey, S. K. Ghosh, Multi Attribute Decision Making for Determining Optimum Process Parameter in EDC with Si and Cu Mixed Powder Green Compact Electrodes, Journal of Scientific & Industrial Research., June 2016, ISSN: 0975-1084, Vol.75, Issue-06, 352-356.
 11. S Chakraborty, S. Kar, S. K. Ghosh, V Dey, Parametric Optimization of Electric Discharge Coating on Aluminium-6351 Alloy with Green Compact Silicon Carbide and Copper Tool: A Taguchi Coupled Utility Concept Approach, Surfaces and Interfaces, 6th February, 2017, ISSN: 2468-0230, Vol- 7, 47-57.
 12. Rahul KantiNath, Ajay Biswas "Regression Analysis of Submerged Arc Welding Process Parameters with Respect to Different Electrode Angle as Well as Welding Direction, International Journal of Engineering Research & Technology, IJERT, April 2016, ISSN: 2278-0181, Volume-5, 46 - 50.
 13. Arindam Majumder, Abhishek Majumder, Standard Deviation Method Based PSO- An Instigated Approach to Optimize Multi-Objective Manufacturing Process Parameters, Journal of Swarm Intelligence Research (IJSIR), 01st April 2016, Volume 7, 15-35.
 14. Arindam Majumder, Dipak Laha, A New Cuckoo Search Algorithm for 2-Machine Robotic Cell Scheduling Problem with Sequence-Dependent Setup Times, Swarm and Evolutionary Computation, 30th June 2016, Volume 28, 131-143.
 15. Biswajit Das, S. Roy, R. N. Rai, S. C. Saha, P. Majumder, Effect of in-situ processing parameters on microstructure and mechanical properties of TiC particulate reinforced Al-4.5Cu alloy MMC fabricated by Stir-Casting Technique - Optimization using grey based differential evolution algorithm, Measurement, November 2016, ISSN: 0263-2241, Vol- 93, 397-408.
 16. Biswajit Das, S. Roy, R. N. Rai, S. C. Saha, Application of fuzzy Technique for order preference by similarity to ideal solution in CNC end milling of in-situ Al-4.5%Cu-TiC metal matrix composite, Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 6th September 2016, ISSN: 09544054, 1600-1613, Vol 230, Issue 9.
 17. Aparesh Datta, Dipankar Sanyal, Ajoy Kumar Das, Numerical investigation of heat transfer in microchannel using inclined longitudinal vortex generator, Applied Thermal Engineering, 5 September 2016, ISSN: 1359-4311, Vol-108, 1008-1019.
 18. Aparesh Datta, Ajoy Kumar Das, Prasenjit Dey, Dipankar Sanyal, Multi-objective optimization of laminar heat transfer and friction factor in rectangular microchannel with rectangular vortex generators: an application of nsga-ii with gene expression programming metamodel, Journal of Heat Transfer, 21st March 2017, ISSN-0022-1481, Vol 139, Issue-7, 382-401.
 19. Prasenjit Dey, Ajoy K. Das, Application of Multivariate Adaptive Regression Spline-Assisted Objective Function on Optimization of Heat Transfer Rate Around a Cylinder, Nuclear Engineering and Technology, 8th June 2016, ISSN: 1738-5733, Vol- 48/Issue-06, 1315-1320.
 20. Manoj K. Triveni, Rajsekhar Panua, Numerical analysis of natural convection in a triangular cavity with different configurations of hot wall, International Journal Of Heat And Technology, DOI: 10.18280/ijht.350102, 2nd March 2017, ISSN: 0392-8764 Vol. 35, Issue-. 1.
 21. S. Das; S. Bhaumik, The Effect of Coating Thickness and Roughness of Nucleate Pool Boiling Heat Transfer on Nanoparticle Coated Surface, Journal of The Institution of Engineers (India): Series E, DOI:10.1007/s40034-015-0063-3, April 2016, Vol. 97, Issue 1, 55-62.

22. S. Das; S. Bhaumik, Experimental study of nucleate pool boiling heat transfer using water on thin film Surface Journal Name- Iranian Journal of Science & Technology: Transactions of Mechanical Engineering, DOI:10.1007/s40997-016-0009-5, 09 May 2016, Volume 40, Issue 1, 21–29.
23. M. Ray, S. Deb, S. Bhaumik, Pool boiling heat transfer of refrigerant R- 134a on TiO₂ nano wire arrays surface, Applied Thermal Engineering, DOI:10.1016/j.applthermaleng.2016.07.080, 12 July 2016, Vol. 107, 1294-1303.
24. S. Das, B. Saha, S. Bhaumik, Experimental study of nucleate pool boiling heat transfer of water by surface fictionalization with SiO₂ nanostructure, Experimental Thermal and Fluid Science, DOI:10.1016/j.expthermflusci.2016.09.009, 18 September 2016, Vol. 81, 454-465.
25. S. Das; B. Majumder; S. Bhaumik Effect of Wettability on Micro and Nanostructure Surface using Sessile Droplet Contact Angle for heat transfer application, Iranian Journal of Science & Technology: Transactions of Mechanical Engineering DOI: 10.1007/s40997-016-0046-0, 16 November 2016, Volume 41, Issue 2, 129–140.
26. S. Das, B. Saha, S. Bhaumik Experimental study of nucleate pool boiling heat transfer of water by surface fictionalization with TiO₂ nanostructure, Applied Thermal Engineering, DOI:10.1016/j.applthermaleng.2016.11.135, 18th November, 2016, Vol.113, P. no. 1345-1357.
27. M. Ray, S. Bhaumik, Review of Nucleate Pool Boiling Heat Transfer using Refrigerant, International Journal of Applied Engineering Research, ISSN 0973-4562, Feb, 2017, Vol. 12, (7), 1156-1165.

In Proceedings of National Conference:

1. Dr.S.C.Saha, National Conference on Advances in Research and Innovations in Mechanical Engineering, Material Science, Industrial Engineering and Management, NIT Manipur, 12-13th December, 2016.
2. Mrinal Bhowmik, Madhujit Deb, EPAM-2016 NIT Agartala, 11th- 12th June 2016.
3. Dr. Prasun Chakraborti, Nabarun Biswas, Abhijeet Kumar, Narath Moni Reang, EPAM-2016, National Conference NIT Agartala, 11th- 12th June 2016.
4. Dr Prasun Chakraborti, Nabarun Biswas, Abhijeet Kumar, Narath Moni Reang and Syeed Zeeshan Ali Ahemed, EPAM-2016, National Conference NIT Agartala, 11th-12th June , 2016.
5. Sameer Gajghate, Vaibhav Khandekar, Swapan Bhaumik & Sudev Das, RISE-2017, National Institute of Technology Silchar, 24th – 26th, March, 2017.
6. Sooraj, S. Das & S. Bhaumik, National conference on Engineering problems & Application of Mathematics (EPAM-2016), NIT Agartala, June 11 -12, 2016

In Proceedings of International Conference:

1. G.R.K Sastry, Proceedings of the ASME 2016, Power and Energy Conference, Power Energy 2016, Charlotte. UK, June 26-30, 2016, Charlotte.
2. Ajay Biswas, The International Conference on Materials, Manufacturing and Modelling (ICMMM - 2017), VIT University, Vellore-632014, Tamil Nadu, 09th-11th March, 2017.
3. Ajay Biswas & Sumit Das Lala, The International Conference on Materials, Manufacturing and Modelling (ICMMM - 2017), VIT University, Vellore-632014, Tamil Nadu 09th-11th March, 2017.
4. Dr. G. R. K. Sastry, 1st International and 18th ISME Conference, NIT Warangal, 23rd – 25th February, 2017,

5. Dr. G. R. K. Sastry, Current Research topics in Power Nuclear and Fuel Energy(1st ICRTTEST) MREC, Hyderabad, 25th-27th, October, 2016.
6. Krishnapada Sinha, Tanmoy Medhi, Barnik Saha Roy, S. C. Saha, 10th International Conference on Trends in Welding Research, Japan 11th - 14th October, 2016.
7. Krishnapada Sinha, Tanmoy Medhi, Barnik Saha Roy, S.C. Saha International Conference on Recent Innovations in Production Engineering, Chennai, 24th- 25th March 2017.
8. Ruma Sen, Bikash Choudhuri, John DebBarma, Prasun Chakraborti, International Conference on Emerging Trends in Materials and Manufacturing Engineering (IMME17) NIT Tiruchirappalli, India, 10th-12th March, 2017
9. S. K. L. Vaiphei, M. Chandrasekaran, N. Teyi, R.M. Arunachalam and J. Debbarma, International Conference on Applied Mechanics and Industrial Systems (ICAMIS-Oman-2016), Muscat, Oman, 6th-8th December 2016.
10. S. Das; S. Bhaumik, IMPRES 2016 Italy, 21st May, 2016
11. M. Ray; S. Bhaumik, IMPRES 2016 Italy, 21st May, 2016.
12. Vijay Kumar, Sudev Das & Swapna Bhaumik, International conference on Nanoscience & Nanotechnology for Energy application (EAPP-2016), Sathyabama-university, Tamil Nadu, June 27-29, 2016.
13. Gajanan Patel, Sudev Das, Swapna Bhaumik, EAPP-2016 Sathyabama-university, Tamil Nadu, June 27-29, 2016.
14. Sooraj, S. Das & S. Bhaumik, EAPP-2016, Sathyabama-university, Tamil Nadu, June 27-29, 2016.

Distinguished Visitors to the Departments:

Sl. No.	Name of the Visitors and Designation	Date of Visit	Purpose of Visit
1.	Er. Subhash Chowdhury Ex-Director & CEO, TRED A	04.04.2016	Visited Department to see the changes
2.	Dr. J. Dey Retired Professor, ME Deptt. IISc Bangalore, Bangalore	04.04.2016	Visited Department to see the changes
3.	Prof.(Dr.) Anoop Kumar Das, Professor & Head, Mechanical Engineering Department, Indian Institute of Technology Guwahati	06.05.2016	Visited Department in connection with evaluation of M.Tech Thesis
4.	Prof.(Dr.) Goutam Majumder, Professor, Mechanical Engineering Department, Jadavpur University	06.05.2016	Visited Department in connection with evaluation of M.Tech Thesis
5.	Prof.(Dr.) U S Dixit, Professor, Mechanical Engineering Department, Indian Institute of Technology Guwahati	06.05.2016	Visited Department in connection with evaluation of M.Tech Thesis
6.	Dr. Mihir Kumar Sarangi, Associate Professor, Mechanical Engineering Department, Indian Institute of Technology Kharagpur	07.05.2016	Visited Department in connection with evaluation of M.Tech Thesis
7.	Prof.(Dr). P. K. Das P Professor & Head, Mechanical Engineering Department, Indian Institute of Technology Kharagpur	07.05.2016	Visited Department in connection with evaluation of M.Tech Thesis

8.	Prof.(Dr.) S. K. Saha, Professor & Head, Mechanical Engineering Department, Indian Institute of Technology Delhi	07.05.2016	Visited Department in connection with evaluation of M.Tech Thesis
9.	Er. Anirban Baidya, Senior Service Delivery Manager, Tieto Software Technolgies Ltd., Pune and an 1998 Alumnus of ME Department, NITA (Erstwhile Tripura Engineering College)	07.05.2016	Visited Department in connection with evaluation of M.Tech Thesis
10.	Prof.(Dr). Avinash Kumar Agarwal, Professor, Mechanical Engineering Department, Indian Institute of Technology Kanpur	07.05.2016	Visited Department in connection with evaluation of M.Tech Thesis
11.	Prof.(Dr.) A. R. Mohanta Professor, MED, IIT Kharagpur	29.04.2016	For delivering expert lecture in TEQIP Sponsored Workshop in Production Engineering Department
12.	Dr. S. L. Soni Professor, MED, NIT Jaipur	26.08.2016	Visited Department during his visit to NIT Agartala for TEQIP auditing
13.	M.N. Jha SO(G), L&PTD, BARC, Mumbai-400085	17.10.2016	Visited Department during his visit to NIT Agartala for TEQIP sponsored workshop at Production Engg. Department
14.	Prof. S. K. Kakaty, Professor, Department of Mechanical Engineering IIT Guwahati	19.10.2016	Visited Department for PhD Thesis evaluation
15.	Bapi Sarkar, PhD. Scholar, Curtin University, Australia	24.10.2016	To meet the faculty members and staff and students of his almmater
16.	Mr. Parimal Biswas, Hororary Secretary General IIW	04.11.2016	Visited Department in connection with inauguration of IIW Student Chapter
17.	Professor (Dr.) R. S. Parmer, IIT Delhi	04.11.2016	Visited Department in connection with inauguration of IIW Student Chapter
18.	Mr. Debjoyti Debnath, Honorary Secretary, IIW	04.11.2016	Visited Department in connection with inauguration of IIW Student Chapter
19.	Er. Rohit Madan, ONGC Tripura Asset	04.11.2016	Visited Department in connection with inauguration of IIW Student Chapter
20.	Professor (Dr.) R. S. Parmer, Former Professor, MED,IIT Delhi and Immediate Past Vice President	04.11.2016	Interacting with the students & Faculty Members

21.	Prof. Debabrata Chakraborty, Professor, Mechanical Engineering, IIT Guwahati.	07.12.2016	Visited Department in connection with evaluation of M.Tech Thesis
22.	Prof. Rajat Gupta, Professor, NIT Silchar	07.12.2016	Visited Department in connection with evaluation of M.Tech Thesis
23.	Prof. Dipankar Sanyal, Professor, Mechanical Engineering Department, Jadavpur University.	07.12.2016	Visited Department in connection with evaluation of M.Tech Thesis
24.	Dr. B. V. S. S. S. J. Prasad, Associate Professor, Department of Mechanical Engineering, IIT Madras	07.12.2016	Visited Department in connection with evaluation of M.Tech Thesis
25.	Dr. P. Saha, Professor, Mechanical Engineering Department, IIT Kharagpur.	07.12.2016	Visited Department in connection with evaluation of M.Tech Thesis
26.	Dr. S. Ghosh, Associate Professor, Department of Mechanical Engineering, IIT Delhi.	07.12.2016	Visited Department in connection with evaluation of M.Tech Thesis
27.	Dr. Kumar G. N., Professor, Department of Mechanical Engineering, NIT Suratkal	07.12.2016	Visited Department in connection with evaluation of M.Tech Thesis
28.	Er. P. K. Biswas, GM, IDBI Bank	09.12.2016	Visited Department in connection with evaluation of B.Tech Thesis
29.	Er. Anup Bhattacharjee, Director-Tech, Lloyds Corporation, Kolkata	09.12.2016	Visited Department in connection with evaluation of B.Tech Thesis
30.	Mr. Atul Kothari, Secretary, General Secretary, Siksha Sanskriti Utyan Nyas, New Delhi, India.	17.03.2017	Interacting with the students & Faculty Members
31.	Dr. Swapan Bhattacharya, Professor, Jadhavpur University	17.03.2017	Interacting with the students & Faculty Members
32.	Dr. Fazal Talukdar, Professor, NIT Silchar	17.03.2017	Interacting with the students & Faculty Members
33.	Dr. Rajat Gupta, I/c. Director, NIT Silchar	17.03.2017	Interacting with the students & Faculty Members

14.5 Other Activities:

A.

Sl. No.	Name of Faculty	Date of Venue	Role	Venue
1.	Dr. Swapan Bhaumik	28th Oct, 2016	Expert lecture on " Bio-fuels- Alternative energy"	NIT Mizoram
2.	Dr. Swapan Bhaumik	12th April, 2016	Expert lecture on "Advances in Two phase flow and Heat Tranfer".	Gujarat Technical University, Ahmedabad

3.	Dr. Swapan Bhaumik	April 11- 17, 2016	External expert for Research week 2016 for evaluating the M. Tech Dissertation	Gujarat Technical University, Ahmedabad
4.	Dr. Swapan Bhaumik	Jan 9 -10, 2017.	Chairman of Faculty Recruitment	Techno India Agartala (AICTE Approved Engineering Degree College)
5.	Dr. Swapan Bhaumik	15th - 17th December, 2016	Chaired the Session at 6th International & 43rd National Conference on Fluid Mechanics & Fluid Power (FMFP- 2016)	MNNIT Allalabad.

B. Mechanical Engineering Department of NITAgartala selected the following four staff for undergoing training of ISHRAE ICP Service Level 1 Course on Refrigeration & Air Conditioning from January 18 to 21, 2017 at Salt Lake, Kolkata under TEQIP-II program for skill development of the staff of the Institute.

1. Basudeb Banik (Sr. Technician)
2. Biswajit DebNath (Instructor)
3. Kishor Das(Lab Assistant)
4. Pinku Das. (Lab Assistant)

they have gathered first hand training on the topic.

C. Department introduced Innovative Internship Programme of ITI passed out trainees for one year first time in Tripura with a stipend of Rs.3000/- for ten trainees in the different shops/labs of the department. In this program the following ITI passed out students have joined in ME department w. e. f. November 01, 2016 for One year.

1. Mr. Sujit Saha (Turner Trade)
2. Mr. Shantanu Majumder (Welder Trade)
3. Mr. Pradipta Pal (Refrigeration & Air-conditioning Trade)
4. Mr. Saikat Majumder (Welder Trade)
5. Mr. Biswajit Das (Refrigeration & Air-conditioning Trade)
6. Mr. Rakesh Sarkar (Plumber Trade)

The above mentioned trainees have been placed to different respective shops/ labs after three month general instruction by Mr. Govinda Chandra Das Retd. Senior Technician working at ME Dept.

D. (i) Mr. Souvik Bhowmik and Mr. Suprakash Debnath, students of 3rd year (presently 4th year) participated in 10th “JAGRUTI - IMTMA Youth Programme” from 28 to 30 January 2017 as part of IMTEX 2017 and Tooltech 2017 exhibition at the Bangalore International Exhibition Centre (BIEC) in Bengaluru.

15.0 MATHEMATICS DEPARTMENT

15.1 Introduction:

The journey of department of mathematics at NIT Agartala has started in 1960. Department of mathematics gripped the power and diversity of mathematics by combining pure and applied part of it in one place. The department tried its best to provide to the needs of the institute where specific tailor made courses are to be offered to the needs of various engineering departments. This helped to have a collaboration work with some of the engineering departments, which lead to joint Ph.D. supervisions.

The Department is now actively pursuing research embracing both areas of pure and applied mathematics. The department has produced twelve Ph. D students till now and twenty more students are pursuing their Ph. D under it. The faculty member of this Department teaches Mathematics to under graduate and postgraduate students of different Engineering Branches along with the two years M.Sc. degree course (Mathematics) and 5-years Integrated M.Sc. program in Mathematics (BS-MS program). Project of M. Sc students and BS-MS students inculcated under the supervision of faculty members.

The department has at present sixteen energetic and dedicated faculty members consisting of three Associate Professors, two Assistant Professors, seven contractual Assistant Professors and four Teaching Assistants and it also boasts of hosting visits of a good number of distinguished mathematicians every year. In their pursuit of research the faculty members have covered a vast area such as Operation research, Transportation Problems, Inventory Control, Fuzzy topology, Fuzzy Clustering, Fuzzy Logic, Neuro-fuzzy logic system, Grey-fuzzy logic, Fuzzy dynamic programming, Fuzzy decision making, Rough Set, Numerical Analysis, Computational Fluid Dynamics, Decision Making and Optimization, Mathematical and computational biology, Bio-informatics, Fluid Mechanics. The Department has two Computer Laboratory.

The entire family of teaching faculty is energetically engaged in research in their individual fields, and numerous research papers are being published in various journals of repute.





15.2 Academic Programme:

Also Mathematics Department is imparting compulsory UG curriculum in Engineering Mathematics in 1st, 2nd and 3rd semester of all the Departments of NITA. Apart from this courses, the department is taking the courses like Numerical Methods and Analysis (4th Semester EE, 5th Semester ECE), Operation Research & Mathematical foundation (MCA-2nd and 4th), courses on Higher Engineering Mathematics in M. Tech curriculum (CE, ME and ECE), Business statistics and Mathematics in M.B.A.

15.3 Faculty and their Activities:

Short-Term Courses/ Workshops/ Seminar/ Symposia/ Conferences organized by the faculty members:

Sl. No.	Co-ordinators	Title	Period
National Conference			
1	Dr. Baby Bhattacharya, Dr. Sima Ghosh	National Level Conference on Engineering Problems and Application of Mathematics	11 th – 12 th June, 2016

Short-Term Courses/ Workshops/ Seminars/ Symposia/ Conferences/ Training attended by the Faculty in Academic Institutions and Public Sector Undertakings:

Sl. No.	Name of Faculty	Title	Period
Workshop:			
1.	Dr. Baby Bhattacharya	Academic Environment in Technical Education: Future Perspectives, NIT Agartala	16 th – 17 th March, 2017
Conference:			
1.	Dr. Susmita Roy	National Level Conference on Engineering Problems and Application of Mathematics	11 th -12 th June, 2016
2.	Dr. Debasish Bhattacharya	National Level Conference on Engineering Problems and Application of Mathematics	11 th -12 th June, 2016
3.	Sudipa Choudhury	National Level Conference on Engineering Problems and	11 th -12 th June, 2016

		Application of Mathematics	
4.	Dr. Pinki Majumder	National Level Conference on Engineering Problems and Application of Mathematics	11 th -12 th June, 2016
5.	Dr. Jayanta Debnath	National Level Conference on Engineering Problems and Application of Mathematics	11 th -12 th June, 2016
6.	Ashis Kumar Roy	National Level Conference on Engineering Problems and Application of Mathematics	11 th -12 th June, 2016
7.	Dr. Apu Kumar Saha	National Level Conference on Engineering Problems and Application of Mathematics	11 th -12 th June, 2016
8.	Dr. Jayasree Chakraborty	National Level Conference on Engineering Problems and Application of Mathematics	11 th -12 th June, 2016
9.	Dr. Mantu Das	National Level Conference on Engineering Problems and Application of Mathematics	11 th -12 th June, 2016
10.	Dr. Ravi Shankar Kumar	National Level Conference on Engineering Problems and Application of Mathematics	11 th -12 th June, 2016
11.	Dr. Baby Bhattacharya	International Conference on Mathematical Analysis and its Application (ICMAA), IIT Roorkee	28 th November – 2 nd December, 2016
12.	Dr. Baby Bhattacharya	International Conference on Mathematical Computer Engineering (ICMCE), VIT, Chennai	16 th – 17 th December, 2016
13.	Kalyani Debnath	National Level Conference on Engineering Problems and Application of Mathematics	11 th -12 th June, 2016
14.	Dr. Abhijit Baidya	National Level Conference on Engineering Problems and Application of Mathematics	11 th -12 th June, 2016
Training:			
1.	Dr. Baby Bhattacharya	Management and Capacity Enhancement Program (MCEP), IIM Udaipur	4 th – 9 th April, 2016
Short term Course:			
1.	Dr. Baby Bhattacharya	Fuzzy set theory and its application, NIT Rourkela	22 nd – 24 th April, 2016
2.	Dr. Baby Bhattacharya	Fuzzy logic with application, IIT Roorkee	20 th – 25 th March, 2017

15.4 Research and Consultancy:

Research Publications:

Total No. of papers published in Refereed International Journals : 21

Total No. of papers presented in National Conference	:	2
Total No. of papers presented in International Conferences	:	2

In Refereed International Journals:

- (1) B.Bhattacharya , ‘Fuzzy Independent Topological Spaces Generated By Fuzzy γ -open sets and Their Applications’, Afrika Matematika, Accepted 21st Feb 2017.
- (2) B.Das, Susmita Roy, R.N. Rai, S.C. Saha, P.Majumder, ‘Effect of in-situ processing parameters on microstructure and mechanical properties of TiC particulate reinforced Al-4.5Cu alloy MMC fabricated by stir-casting technique-Optimization using grey based differential evolution algorithm’, Measurement, 93, 397-408, (2016).
- (3) B.Das, Susmita Roy, R.N. Rai, S.C. Saha , ‘Application of fuzzy technique for order preference by similarity to ideal solution in computer numerical control end milling of in-situ Al-4.5%Cu-TiC metal matrix composite’, Journal of Engineering Manufacture, 230(9), 397-408,(2016).
- (4) Apu Kumar Saha, Sudipa Choudhury, Mrinmoy Majumder, ‘Performance Efficiency Analysis of Water Treatment Plants By Using MCDM and Neural Network Model’, International Journal of Science and Technology, 3(1), 27-35, 2017.
- (5) Sudipa Choudhury, Mrinmoy Majumder, Apu Kumar Saha, ‘Identifying The Risk Factor of Water Treatment Plant: An MCDM Approach’, International Journal of Control theory and application, 10(6), 2017.
- (6) Sudip Debnath, Apu Kumar Saha, B.S. Mazumder and Ashis Kumar Roy, ‘Hydrodynamic Dispersion of Reactive Solute in a Hagen-Poiseuille Layered Liquid’, Chinese Journal of Chemical Engineering, Accepted 23rd March 2017.
- (7) Dr. Pinki Majumder, Dr. Sankar Prasad Mondol, Dr.Uttam Kumar Bera, Prof.(Dr.) Manoranjan Maiti, ‘Application of Generalized Hukuhara derivative approach in an Economic production quantity model with partial trade credit policy Under fuzzy environment’, Operations Research Perspectives, 3, 77-91, 2016.
- (8) Dr. Madhujit Deb, Dr. Pinki Majumder, Mr. Anindam Majumder, Dr. Rahul Banerjee, Dr. Sumit Roy, ‘Application of artificial intelligence (AI) in characterization of the performance–emission profile of a single cylinder CI engine operating with hydrogen in dual fuel mode: An ANN approach with fuzzy-logic based topology optimization’, International Journal of Hydrogen Energy, 41(32), 14330-14350, 2016.
- (9) Mr. Bijoy Krishna Debnath, Dr. Pinki Majumder, Dr.Uttam Kumar Bera, ‘Two warehouse inventory models of breakable items with stock dependent demand under trade credit policy with respect to both supplier and retailer’, International Journal of Logistics Systems and Management, Accepted 26th March 2016.
- (10) Suman Debnath, TarunKantiBandyopadhyay, Apu Kumar Saha, ‘CFD analysis for non-Newtonian pseudo plastic liquid flow through small diameter U-BEND’, Journal of Applied Fluid Mechanics, 10(3), 971-987, 2017.
- (11) J. Chakraborty, B. Bhattacharya and A. Paul, ‘Some Results on Fuzzy Hyperconnected Spaces’, Songklanakarin journal of science and technology.Accepted 15th August2016.
- (12) J. Chakraborty, B. Bhattachary and A. Paul, ‘Fuzzy Λ_{γ}^{gx} -Sets and Generalization of Closed Sets in Generalized Fuzzy Topological Spaces’, Songklanakarin journal of science and technology, Accepted 26th May 2016.
- (13) A. Paul, B. Bhattacharya and J. Chakraborty, ‘On Λ^{γ} - Set in Fuzzy Bitopological Spaces’, Boletim da Sociedade Paranaense de Matemática ,35(3), 285-299, 2017.

- (14) Ravi Shankar Kumar, Alok Choudhury, Soudagar A.K. Irfan Babu, S.K. Kumar, A. Goswami, M.K. Tiwari, 'Designing multi-period supply chain network considering risk and emission: a multi-objective approach', Annals of Operations Research, 250(2), 427-461, 2017.
- (15) A. Paul, B. Bhattacharya and J. Chakraborty, γ -Hyperconnectedness and fuzzy mappings in fuzzy bitopological spaces, Journal of Intelligent and Fuzzy Systems, 32(3), 1815-1820, 2017.

Distinguished Visitors to the Departments:

<i>Sl. No.</i>	<i>Name of the Visitors and Designation</i>	<i>Date of Visit</i>	<i>Purpose of Visit</i>
1	Dr. Anita Paul, Assistant Professor, NIT Durgapur	17.02.2017	Lecture
2	Dr. Syamal Kumar Samanta, Professor, Visva- Bharati University	06.02.2017	Ph.D Viva-Voce examination and Lecture
3	Dr. Debaldev Jana, Assistant Professor (Research Track), SRM University	15.03.2017	Lecture
4	Dr. Arun Kumar Srivastava, Professor, Banaras Hindu University	29.03.2017	Ph.D Viva-Voce examination and Lecture
5	Dr. N. Sukavanam, Professor, IIT Roorkee	11.06.2016	National Level Conference on Engineering Problems and Application of Mathematics

15.5 Other Activities:

Number of Students (year-wise) who qualified in NET: 01

16.0 PHYSICS DEPARTMENT

16.1 Introduction:

The Physics Department is as old as NIT Agartala (NITA in 2006, formerly Tripura Engineering College) itself - a venerable forty six years of age, established in 1965. Since then, the mandate of the Department is to conduct teaching courses for students of engineering disciplines and conduct interdisciplinary studies, especially with engineering departments. The faculty members are engaged in rendering the post graduate and engineering undergraduates with the fundamental knowledge of physics and problem solving skills, requisite for a bright career, and striving tirelessly to improve the education further.

16.2 Academic Programme:

- The department currently offers the course of Engineering Physics to 1st and 2nd semesters of engineering undergraduates (B.Tech) and Material Science to the 4th semester engineering undergraduates of Electrical branch.
- The department also offers 10 semester BT-MT and BS-MS dual degree programmes in Engineering physics. The dual degree program affords undergraduate students enhances the opportunity to broaden their studies and improve their career prospects.
- The department runs 4 semester master degree programme (M.Sc) in Physics. The unique course structure of M.Sc. (Physics) blends well the areas of contemporary and applied physics to create post-graduates who are equally comfortable with science and technology.
- The department has also runs the PhD (Physics) programme in different topics, within the major thrust areas of Applied Optics & Photonics, Plasma Physics, Theoretical Condensed Matter Physics, Liquid Crystals Atmospheric Science, General Relativity, Cosmology, Thin film, Nanotechnology.

The department has a vibrant research program (Ph.D.) in various frontline areas of research, in addition to the present undergraduate and post-graduate programmes. Presently work is going on cutting edge topics within the following major thrust areas of

- Applied Optics & Photonics
- Theoretical and experimental Condensed Matter Physics
- Experimental Plasma Physics
- Liquid Crystals
- Spintronics and devices
- Experimental Nano-science
- Atmospheric Science
- General Relativity, Cosmology
- Thin film, Nanotechnology

16.3 Faculty and their activities

Short-Term courses/Workshops/Seminars/ Symposia/ Conferences/ training attended by the faculty in Academic Institutions and Public Sector Undertakings:

Sl. No.	Name of the faculty	Title	Period
Workshop:			
1	Ngangbam Ishwarchandra	National Workshop on Recent Advances in Astrophysics and Cosmology held at	March 17-18, 2017

		North Bengal University, West Bengal, India.	
2	Dr. Thingujam Kiranmala Devi	Two days National Workshop on Academic Environment in Technical Education: Future Perspectives	16 th March-17 th March, 2017
Conference:			
1	Dr. Santanu Chakraborty	2 nd International Conference on Material Science held at Tripura University	16-18 February, 2017.
2	Dr. Biswajit Paul	The North-East Meet of Astronomers(NEMA)-II held at Det of Physics, Tezpur University.	12-14 December, 2016
Short term course:			
1	Dr. Biswajit Paul	TEQIP short term course on “PT-symmetry and its realization in experimental systems: theory and applications” held at NIT Agartala.	13-17 Feb, 2017
2	Dr. Saswati Roy	TEQIP short term course on “PT-symmetry and its realization in experimental systems: theory and applications” held at NIT Agartala.	13-17 Feb, 2017

16.4 Research and Consultancy :

Sponsored Research Projects:

Sl. No.	Title	Period	Funding Agency	Amount (in lacks)	Co-ordinators
1	Investigation on synthesis processes and physical characterization of Cu based oxide thin film as p-type semiconductor material and to functionalize it for Photo voltaic applications	2014-17	Department of Science and Technology	19.2	Biswajit Saha

Research Publications:

Total No of papers published in Referred National Journals	: 01
Total No of papers published in Referred InterNational Journals	: 23
Total No of papers published in Referred InterNational Conferences	: 05

In Referred National Journals:

1. Kiranmala Thingujam, Ayon Bhattacharjee, Basana Choudhury & Parmeshwara Rao Alapati, “Optical parameter measurements of a $nO.m$ liquid crystalline compound”, Indian Journal of Pure & Applied Physics 55, 269-274, April 2017

In Referred International Journals:

1. Sangita Patari T.K.Devi Aparna Nath, “Studies of optical texture, Birefringence, order parameter, normalised polarizability and validation of the four- parameter model of a thermotropic mesogen 7OAOB.” *Journal of Molecular Liquids*, 215, 244-252, (2016).
2. Sangita Patari, Santanu Chakraborty and Aparna Nath, “The optical anisotropy and orientational order parameter of two mesogens having slightly different flexible side chain – a comparative study”. *Liquid Crystal*, 43, 1017-1027, (2016).
3. Sangita Patari, Aparna Nath, “Studies of temperature and frequency dependence of dielectric permittivities of two Schiff's base liquid crystal compounds” *Journal of Molecular Liquids*, 230, 247–253, (2017).
4. Sangita Patari, Aparna Nath. “Study of dielectric anisotropy and other related parameters of a liquid crystal compound 7OAOB” *Phase transition*. (Latest article).
5. C. Behera, R.N.P. Choudhary, & P.R. Das, Development of Ni-Ferrite-Based PVDF Nanomultiferroics, *Journal of Electronic Materials*, doi:10.1007/s11664-017-5567-9 (2017).
6. C. Behera, R. N. P. Choudhary, Piyush R. Das, Development of Multiferroism in PVDF with CoFe_2O_4 Nanoparticles *Journal of Polymer Research* , 24: 56, DOI 10.1007/s10965-017-1208-5 (2017).
7. C. Behera, R. N. P. Choudhary, Piyush R. Das, Development of multiferroic polymer nanocomposite from PVDF and $(\text{Bi}_{0.5}\text{Ba}_{0.25}\text{Sr}_{0.25})(\text{Fe}_{0.5}\text{Ti}_{0.5})\text{O}_3$, *J Mater Sci: Mater Electron* ,28:2586–2597 DOI 10.1007/s10854-016-5834-1(2017).
8. Pintu Debnath , Santanu Chakraborty, Subrata Deb , Jayasree Nath, Bapi Dey, D. Bhattacharjee, Syed Arshad Hussain; “Stability of J-aggregated species in an indocarbocyanine dye in Langmuir–Blodgett Films”; *Journal of Luminescence*; 179; 287-298, 2016.
9. T. Majumder, S. Dhar, K. Debnath, S. P. Mondal, “Role of S, N co-doped Graphene Quantum Dots as a Green Photosensitizer with Ag-doped ZnO Nanorods for Improved Electrochemical Solar Energy Conversion”, *Materials Research Bulletin*, 93, pp. 214–222 (2017).
10. T. Majumder, J. J. L. Hmar, S. Dhar, S. P. Mondal, “Superior photoelectrochemical properties of ZnO nanorods/poly (3-hexylthiophene) hybrid photoanodes”, *Chemical Physics*, 490 pp. 1–6 (2017).
11. S. Dhar, T. Majumder and S. P. Mondal “Graphene Quantum Dot Sensitized ZnO Nanorod/Polymer Schottky Junction UV Detector with Superior External Quantum Efficiency, Detectivity and Responsivity” *ACS Applied Materials & Interfaces*, 8 (46), pp 31822–31831(2016).
12. T Majumder, K Debnath, S Dhar, J.J.L Hmar and S. P. Mondal, “Nitrogen-Doped Graphene Quantum Dot-Decorated ZnO Nanorods for Improved Electrochemical Solar Energy Conversion”, *Energy Technology*, 4, pp. 950-958 (2016).
13. T. Majumder and S. P. Mondal, “Advantages of nitrogen-doped graphene quantum dots as a green sensitizer with ZnO nanorod based photoanodes for solar energy conversion”, *Journal of Electroanalytical Chemistry*, 769, pp.48-52 (2016).
14. J. J. L Hmar, T. Majumder, S. Dhar and S. P. Mondal, “Sulfur and Nitrogen Co-doped graphene quantum dot decorated ZnO nanorod/polymer hybrid flexible device for photosensing applications”, *Thin Solid Films*, 612, pp.274-283(2016).
15. S. Bera, A. K Katiyar, A. K. Sinha, S. P Mondal, S. K. Ray, “Resistive switching characteristics of a single Zn-doped CuS nanoball anchored with multi-walled carbon nanotubes” *Materials & Design*, 101, pp.197-203(2016).

16. J.J.L Hmar, T Majumder and S. P. Mondal, "Growth and characteristics of PbS/polyvinyl alcohol nanocomposites for flexible high dielectric thin film applications, *Thin Solid Films* 598, pp.243-251(2016).
17. BRST symmetry for Regge-Teitelboim based minisuperspace models S. Upadhyay, B. Paul, *Eur. Phys. J. C* 76:394(2016) .
18. Krishna Deb, Arun Bera, Biswajit Saha, 'Tuning of electrical and optical properties of polyaniline incorporated functional paper for flexible circuits through oxidative chemical polymerization', *RSC Advance RSC*, Vol 6, page 94795-94802 (2016).
19. S. Das, B. Saha, S. Bhaumik, 'Experimental study of nucleate pool boiling heat transfer of water by surface functionalization with SiO₂ nanostructure', *Experimental and Thermal Fluid Science*, Vol 81, pages 454-456, (2017).
20. A. Bera, K. Deb, A. Kathirvel, T. Bera, R. Thapa, B. Saha, 'Flexible diode of Polyaniline/ITO heterojunction on PET substrate' *Applied Surface Science*, article in press (2017).
21. S. Das, B. Saha, S. Bhaumik, 'Experimental study of nucleate pool boiling heat transfer of water by surface functionalization with crystalline TiO₂ nanostructure' *Applied Thermal Engineering*, Vol 113, pages 1345–1357 (2017).
22. B. Saha K. Sarkar, A. Bera, K. Deb, R. Thapa, 'Schottky diode behaviour with excellent photoresponse in NiO/FTO heterostructure', *Applied Surface Science*, article in press (2017).
23. S. Nandhini, A. Rajkamal, Biswajit Saha, and Ranjit Thapa, 'First-principles identification of site dependent activity of graphene based electrocatalyst', *Journal of Molecular Catalysis A: Chemical*, article in press, (2017).

In Proceedings of International Conference:

1. Sangita Patari and Aparna Nath. "Optical Mesophase textures and the enthalpy changes with temperature of a Liquid crystal compound 9OBA". *Advanced Materials Proceedings*, 2, 125-127, (2017).
2. S. P. Mondal, T.Majumder, S. Dhar, J. J. L. Hmar and K Debnath, "Graphene Quantum Dots as a Green Sensitizer for ZnO Nanorod Based Photoanodes", *International Conference on Microelectronics, Computing and Communication (Micro Com 2016)*, January 2016, NIT Durgapur, pp.1-3.
3. J. J. L. Hmar, T. Majumder, S. Dhar and S. P. Mondal, "Photosensing Behaviors of S and N co-doped Graphene Quantum Dot Sensitized ZnO Nanorod/Conducting Polymer Hybrid Devices", *International Conference on Microelectronics, Computing and Communication (Micro Com 2016)*, January 2016, NIT Durgapur, pp. 1-3.
4. A. Debnath, A. Bera, K. K. Chattopadhyay, and B. Saha, "Studies on magnetic properties of chemically synthesized crystalline calcium ferrite nanoparticles" *AIP Conference Proceedings* 1731, pages 0501031-3 (2016).
5. K. Deb, K. L. Bhowmik, A. Bera, K. K. Chattopadhyay, and B. Saha, "Temperature dependent electrical properties of polyaniline film grown on paper through aniline vapor polymerization" *AIP Conference Proceedings* 1731, pages 1100301-3(2016).

16.5 Other Activities :

Dr. Biswajit Saha has been appointed as observer of the Common Medical Service Examination 2016, by the Union Public Service Commission (UPSC) Government of India.

17.0 PRODUCTION ENGINEERING DEPARTMENT

17.1 Introduction:

Production Engineering Department was established in the year of 2005 while it was Tripura Engineering College (Presently National Institute of Technology) and is approved by AICTE. Presently department is offering Bachelor of Technology in Production Engineering and M.Tech in Computer Integrated Manufacturing and as well as Doctoral Program where students are encouraged to acquire knowledge facilities with an integrated thinking about education research & development, production and training. The students are provided knowledge to understand the fundamental of basic sciences and humanities, inter disciplinary knowledge, innovation, creative and problem solving abilities, intellectual honest and professional ethics, capacity for team work in inter disciplinary, national and international environment. It also helps the students to understand society, culture and global processes. The department helps to induce entrepreneurship interest in students. Also to Align and educate our students from Production Engineering Department to improve their fundamental Knowledge to bring innovative technology and to build products either by themselves or by working with various industries to boost economical condition of our county and also North-East part of India.

The Department has seven numbers of permanent faculty and five numbers of contractual faculty members. All faculties are deeply involved in academic, research and administrative responsibilities of the Institute.

17.2 Academic Programme:

Presently Department is offering B.Tech, M.Tech & Ph.D

Production Engineering Department is well equipped with the following laboratories. The laboratories are exclusively used for the regular practical classes of students, research work, and consultancy.

1. Metallographic Laboratory
2. Non Traditional Machining Laboratory
3. CNC and Robotics Laboratory
4. Ergonomics and Condition Monitoring Laboratory
5. CAD/ CAM Laboratory
6. Metal Forming and Metal Casting Laboratory
7. Mechanics of Machine laboratory
8. Mechatronics Laboratory
9. Quality Engineering Laboratory

17.3 Lab Facilities:

The Production Engineering Department is having Metallographic, Non Traditional Machining, CNC automation & Robotics, Ergonomics & Condition Monitoring, CAD/CAM, Metal Forming and Metal Casting, Mechanics of Machine laboratory, Mechatronics Laboratory and Quality Engineering Laboratories.



PICTURES OF NON TRADITIONAL MACHINING LABORATORY



PICTURES OF CNC, AUTOMATION AND ROBOTICS LABORATORY



METALLOGRAPHY LABORATORY and CAD/CAM LABORATORY

17.4 Faculty and their Activities:

Short-Term Courses/ Workshops/ Seminars/ Symposia/ Conferences/ Training attended by the Faculty in Academic Institutions and Public Sector Undertakings

Sl. No	Name of the Faculty	Title	Period
Conference:			
1.	Dr. Ram Naresh Rai	“ICAMT 2016,Dadi Institute of Engineering & Technology, Visakhapatnam, Andhra”	2016
2.	Dr. Vidyut Dey	“ICAMT 2016,Dadi Institute of Engineering & Technology, Visakhapatnam, Andhra”	2016
3.	Dr. Vidyut Dey & Ram Naresh Rai	“5th International Conference on Materials Processing and Characterization- GRIET, Hyderabad”	2016
4.	Dr. R N Rai	“10 th International conference on trends in welding research and 9 th international welding symposium of japan welding society, Japan”	2016
5.	Dr. R N Rai	“Proceedings of the 1st International and 18th ISME Conference ISME 18, NIT Warangal, Warangal”	2017
6.	Dr. R N Rai	“International conference on advances in materials and manufacturing (icamm '17) NIFFT, Ranchi , Jharkhand (INDIA)”	2017
7.	Dr. Kishan Choudhuri	“International Conference on Materials for Advanced Technology and Applications, 20-21 September, 2016, Aurangabad, Maharashtra, India”	20-21 September, 2016
8.	Dr. Nabarun Biswas	“National Conference on engineering problems and application of mathematics organized by Civil engineering and mathematics department of National Institute of Technology Agartala at NIT Agartala”	June 2016
9.	Mr. Sujoy Chakraborty, Miss Pushparenu Bhattacharjee, Dr. Nabarun Biswas, Dr. U.K. Mandal	“ICRIET-International Conference on Recent Innovations in Engineering and Technology (ICRIET-2017)”	2017
10.	Dr. Vidyut Dey & Dr. R.N. Rai	“AIT International Conference 2016, At Bangkok”	Dec 2016
11.	Dr. U.K. Mandal	“National Conference on engineering problems and application of mathematics organized by Civil engineering and mathematics department of National Institute of Technology Agartala at NIT Agartala”	2016

Fellowships of Academics and Professional Societies:

Sl. No.	Name of Faculty	Level
ISTE/CSI and others		
1.	Mr. Prasenjit Dutta	Member (IEI)
2.	Dr. Kishan Choudhuri	i. Associate Member (IEI) ii. Member (ISTE) iii. Member (FOSET)
3.	Dr. Swarup Paul	i. Associate Member (IEI) ii. Member (ORSI) iii. Member (ISTE) iv. Member (TSI) v. Member (SAE) vi. Member (FOSET)
4.	Dr. U.K Mandal	Member (IEI)
5.	Mr. Bishop Debbarma	Associate Member (IEI)
6.	Mr. Sujoy Chakraborty	Associate Member (IEI)
7.	Mr. Nabarun Biswas	Associate Member (IEI)
8.	Miss Pushparenu Bhattacharjee	Associate Member (IEI)
9.	Mr. Debashis Podder	Associate Member (IEI)

*IEI- The Institution of Engineers (India), *ISTE- The Indian Society for Technical Education, *FOSET- Forum of Science Engineering and Technology, *ORSI- Operational Research Society of India, *TSI- Tribology Society of India, *SAE- Society of Automotive Engineering.

17.5 Design and Development Activities:

The Department of Production Engineering has equipped with some laboratories with modern equipment's. The details are given below:

- 1) CNC Wire Cut EDM
- 2) Electric discharge machine
- 3) Five axis robot
- 4) CNC Vertical milling
- 5) Rockwell Hardness Testing Machines
- 6) Vickers's Hardness Testing Machines
- 7) Direct Reading Ferro graph
- 8) Muffle Furnace
- 9) Induction Furnace
- 10) Hydraulic press
- 11) Pneumatic Hammer
- 12) Image Analyzer
- 13) CAD Software- CATIA, PRO-E, DELMIA, AUTO CAD etc.

17.6 Research and Consultancy:**Sponsored Research Projects:**

Sl. No.	Title	Period	Funding Agency	Amount (in lakhs)	Coordinators
1.	"Estimation of River Runoff in Haora River	2015-2017	IEI	Rs. 3 Lakhs	Dr. U.K Mandal & Mr. Nabarun Biswas

	Basin with the Help of MCDM Environment”				
2.	“Condition monitoring of agri - diesel engines run by vegetable oils through tribo-analysis of used lubricants”	2012-2017	AICTE	Rs. 15.7 lakhs	Dr. Swarup Paul
3.	“Studies on the drag between the slipper and the swash plate in an axial piston pump”	2012-2017	AICTE	Rs. 9 lakhs	Dr. Kishan Choudhuri

Research Publications:

Total No. of papers published in Refereed International & National Journals : 18 (Eighteen)

Total No. of papers presented in International & National Conferences : 12 (Twelve)

In Refereed International Journals:

1. Dr. R.N. Rai Engineering Science and Technology, an International Journal, 2016, Vol. 19, Issue2, pp. 857–865, 2016.
2. Dr. R.N. Rai Journal of the International measurement Confederation 2016, Vol. 93, pp- 397–408, 2016.
3. Dr. R.N. Rai Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture 2016, Vol.230, Issue:9, pp. 1600-1613, 2016.
4. Dr. R.N. Rai Sadhana | Indian Academy of Sciences 2016 Vol.41, Issue. 5, pp.549–559, May, 2016.
5. Dr. R.N. Rai International Journal of Science, Engineering and Technology, 2016, Vol.2, pp.158-170, June, 2016.
6. Dr. Vidyut Dey, Journal of The Institution of Engineers (India): Series C, Springer, 2016, Series C, pp. 1–11, 2016.
7. Dr. Vidyut Dey & Dr. R.N. Rai, Journal of Manufacturing Processes, 2016, Vol.25, pp. 1-7, 2016.
8. Dr. Vidyut Dey & Dr. R.N. Rai, Materials Today: Proceedings, 2016.
9. Dr. R.N. Rai Journal of Energy Resources Technology, ASME, 2017, Vol.139, Issue 4, 042209, 2017.
10. Dr. Vidyut Dey & Mr. Sujoy Chakraborty, Surface Review & Letters, 2017, Vol. 25, Issue 5, 2017.
11. Dr. Vidyut Dey & Mr. Sujoy Chakraborty, Surface & Interfaces, 2017, Vol. 7, pp. 47-57, 2017.
12. Dr. Vidyut Dey & Mr. Sujoy Chakraborty, The Institute of Engineers India 2016, Series C, pp. 1-12, 2016.
13. Dr. Vidyut Dey & Dr. R.N. Rai, Arabian Journal for Science and Engineering, 2017, pp. 1-12.
14. Dr. Nabarun Biswas Journal of Scientific & Industrial Research 2016 v.75, pp-495-499, 2016.
15. Dr. Nabarun Biswas Journal of Mechanical Science and Technology (JMST), 2016, v. 30, pp-2187-2193, 2016.

Distinguished Visitors to the Departments

<i>Sl.No.</i>	<i>Name of the Visitors and Designation</i>	<i>Date of Visit</i>	<i>Purpose of Visit</i>
1.	Prof. S.C. Panja	May, 2016	External Examiner
2.	Prof. Titash Nandi	May, 2016	External Examiner

17.7 Other Activities:**Industrial Visit with Students:**

- 1. Raffila Industries Ltd, Budhjungnagar
- 2. Tripura Ispat, Budhjungnagar

18.0 SCHOOL OF MANAGEMENT

18.1 Introduction:

The School of Management has started its operation by offering PG course (MBA) since July 2012 with 14 students having background from varied disciplines with a motto to develop professionals skilled with analytical and administrative ability. Looking at the economic potential of the North-Eastern states, a management school was a logical extension to National Institute of Technology, Agartala.

Masters of Business Administration (MBA) programme (full time) was started with the purpose of administering quality management education to aspiring managers to mould them as competent professionals and good human beings equipped with social ethics.

The School of Management is also offering Ph.D programme in Management since January 2017 session.

The department has 06 (six) nos. of dedicated faculty members along with faculty from allied department. Faculty Members and Experts are invited from other reputed institutions and corporate to bring professionalism among the students by blending academic knowledge with corporate skills.



School of Management Building

18.2 Academic Programme:

Currently, School of Management is offering two year (four semesters) full time MBA programme. This Program is providing an in-depth understanding to students in technical, human and conceptual skills necessary for a successful manager with specialization in different areas like Finance, Marketing, Human Resource and System. The teaching strategy for this program oriented towards the application of knowledge with live cases and teaching aids.

In the year 2016-17, the total student strength of the department in MBA programme is 46 (forty six) for odd semester, consisting 23 in 1st semester and 23 in 3rd semester and also the student strength is same for even semester. Also, in the same year, the 02 (two) scholars has enrolled in the Ph.D Programme during even semester.

There is a six weeks Summer Internship Programme (SIP) for students, after completion of first year course to develop business acumen. The Department facilitates students to undergo paid internships in various reputed government and private organizations viz. RBI, NEDFi, SBI, NABARD, ONGC, HDFC, ITC, Senrysa Technologies Pvt. Ltd. etc.

18.3 Faculty and their Activities:

Short-Term Courses/ Workshops/ Seminars/ Symposia/ Conferences/ Training attended by the Faculty in Academic Institutions and Public Sector Undertakings:

Honours and Awards obtained: 01(one)

Sl. No.	Name of Faculty	Name of Award	Awarded by	Award for	Date
1.	Dr. Rajib Mallik	“International Education Leadership Award”	Global Achievers Foundation (Bankok)	Outstanding achievements in the field of education	10th February, 2017

18.4 Design and Development Activities:

The department has initiated various programmes for developing the skills of students. The department has organized “Corporate Lecture Series”, where experts from different Industries have shared their valuable industry experience to the MBA students. The department has also organized various kinds of activities at departmental level like Business Quiz, Industry Profile Presentation, Management Game, Mock –interview etc.

18.5 Research and Consultancy:

Research Publications:

Total No. of papers published in Refereed International Journals : **03**

In Refereed International Journals : 03 (Three)

- (1) Dutta, Anirban, “Identifying causal relationship between social media content of a Bollywood movie and its Box-office success- A text mining approach”, International Journal of Business Information Systems (IJBIS). Vol: 24(3), Pg-344-368, 2017.
- (2) Mallik, Rajib “Corporate Governance of Banks in India: A Critical Analysis”, International Journal of Applied Business and Economic Research (I J A B E R), ISSN: 0972-7302, Vol. 14, No. 3, pp- 1769-1788, 2016.
- (3) Mallik, Rajib, “Corporate Governance Practices: The Way of Tata Steel Ltd In India”, International Journal of Applied Business and Economic Research (I J A B E R), ISSN: 0972-7302, Vol. 14, No. 6, (2016): 4825-4846, 2016.

Name of the Authors published	Title of the Books	Date of publication of the Book	Issue/ Volume No./ Page No.
Mallik, Rajib, et.al	Development of Education in India	2017	ISBN 978-93-8183-984-3

Distinguished Visitors to the Departments: 01(One)

Sl. No.	Name of the Visitors and Designation	Date of Visit	Purpose of Visit
1	Dr. S.K. Panda, IAS (Retd.) Chairman, Executive Committee Tripura Skill Development Mission Government of Tripura	13 th January, 2017	One-day Guest Talk

19.0 CENTRAL LIBRARY

19.1 Introduction :

The main motto of NITA library is to render better and modern services to the NITA library clientele. With this object in view, NITA library has already introduced modern techniques namely RFID technology which includes self check-in and check-out and started sections namely, digital library, periodical section for printed journals, foreign book collection section, reprography section. Recently it introduced OPAC (Online Public Access Catalogue) system in the library (LAN). It also intend to open non-book section and providing internet (WAN) facility with institutional repositories and inter library loan services to facilitate its users and facility for online access of previous question papers for different UG & PG examinations to be available in near future.

19.2 Library Information Services Statistics:

Item	2015-2016	2016-2017	Remarks
A. Collections:			
Books	84350 (As per Accession register)	84358 (As per Accession register)	Current physical book as per accession register 68436. As because 15914 nos of books fall under damaged, written off, missing, Accession dropped, torned etc. categories though officially may did not declare.
Ph. D. Theses	37	53	
Pamphlets and Reports	10	Nil	
Microfilms / fiche	Nil	Nil	
Book Bank (General)	Nil	Nil	
Book Bank (Weaker Section)	Nil	Nil	
Current Periodicals by Subscription	7	16	
Current Periodicals by Exchange/ Gift	67	248	
Back volumes of Periodicals	Nil	Nil	
Patents & Specifications	Nil	Nil	
Faculty Publications	NA	NA	
German Collection	Nil	Nil	
C.D	612	612	
Video Cassettes	Nil	Nil	
Total			
B. Membership:			
Staff	17	22	
Faculty	16	23	
Students	864	910	
Alumni Members	Nil	Nil	

Corporate Members	Nil	Nil	
Industrial Associate Members	Nil	Nil	
Special Members	Nil	Nil	
Project Co-ordinators	NA	NA	
Total			
C. Services : Circulation			
Number of Readers visited	48912	41340	
Number of Books/ Journals issued	19494	20928	
Number of Books issued through Book Bank (General)	NA	NA	
Number of Books issued Book Bank (Weaker Section)	NA	NA	
Consultation cards issued to users	NA	NA	
Overdue & other charges collected	Nil	Nil	
Xerox charges collection	419	Nil	
D. Reservation of Books			
Registered	585	Nil	
Fulfilled	Nil	Nil	
E. Loans			
Department Loan (Under issue)	Nil	Nil	
Permanent Loan issued	Nil	Nil	
F. Inter Library Loans			
Borrowed from other Libraries	Nil	Nil	
Loaned to other Libraries	Nil	Nil	
G. Literature Search			
CD-ROM search by users	Nil	Nil	
H. Reprint Service			
Reprints received from other Institutions	Nil	Nil	
Reprint supplied to other institutions	NA	NA	
I. Reprography Service			
Number of Xerox copies supplied	556	Nil	
Barcode-ID cards Generated	Nil	Nil	
J. Binding			
Number of Books and journals bound (internal)	Nil	Nil	

Number of Miscellaneous publication bound (internal)	Nil	Nil	
Cutting/ Trimming (sheets)	Nil	Nil	
K. Expenditure on			
Books Printed	Nil	Nil	
Printed Journals	Rs.	Rs.16803	
E-books	Nil	Nil	In 2016-17 subscription to e-resources has been made through ESS only.
E-journals	Nil	Nil	
L. New Journals Added	621		621 number of e-journals added through ESS
M. Any other material, if any:			Nil

19.3 Binding Facilities :

There is no binding section in NIT, Agartala library. Torn books are bound through outside binder. A binding section may be opened in near future for binding the books and journals. Mending works are being done by library personnel at present.

19.4 New Facilities/ Equipments added :

2014-15 : Data entry of books had been completed for 39,661 (as on 19/05/2017) to enrich the OPAC (Online Public Access Catalogue) system (LAN) in the library for searching the resources available in the library mainly under 3(three) approaches Authors, Titles and Subjects.

19.5 Future Plan :

- i. Fully computerization of NITA library.
- ii. Starting documentation work and services on different subjects specially in science and engineering.
- iii. Providing Inter Library Loan facility.
- iv. Opening of Non book section.
- v. Starting a binding section in the library.
- vi. Launching user-education programme.
- vii. Online question papers facility to be provided for different UG & PG examinations of NITA.
- viii. 24 x 7 library services will be provided namely digital library, OPAC (Online Public Access Catalogue) through WAN.
- ix. Whole library to be covered under CCTV surveillance.

19.6 Other activities:

The institute library has participated in the NDL project of MHRD. The registered members can browse through the rich contents of NDL portal covering multiple subject domains and find them extremely useful. Most of the users have already been registered under NDL and registration of the rest is under process.

20.0 STUDENT AMENITIES AND ACTIVITY

20.1 Hostels:

The Institute has both Boys' and Girls' Hostel facilities. Students are accommodated in 4 Boys' Hostels and 1 Girls' Hostel. Present status of the Hostels is given below:

<i>Name of the Hostel/ Unit</i>	<i>Hostel Seat Capacity</i>
Aryabhatta Hostel	1024
Howra Hostel	128
Dhalai Hostel	90
Gomati Hostel	128
argi (Girls Hostel)	412

*One more boy's hostel of capacity 1500 is under construction.

20.2 Medical Facilities:

A well equipped Medical Unit with Four Medical Officers, Two Pharmacists, Two Nurse and other supporting staff is available in the campus for rendering medical care to the students, staff and other inmates of the campus. Presently we have two Ambulances in our Medical Unit. In case of emergency, arrangements are made for taking the patients to the Jirania Rural Hospital (Primary Health Centre) which is 4 K.M. away from the campus or to the State Hospital in Agartala.

20.3 NCC:

NITAgartala has applied for the NCC unit of 100 cadets for Boys and Girls. Already 50no seats are sanctioned for Girls and it will star functioning from the month of August 2015

20.4 NSS:

The NSS Unit of NIT Agartala has 100 volunteers. The unit members find pleasure in going out of the routine student-life and engage themselves in organizing various programs. The march past of 26th January and of 15th August; tree plantations of 15th August, a rally on 1st December on AIDS day, Blood Donation Camp, Special Camp (Seven days- Art competition, Make dustbin, Awareness of bed effect of smoking & Awareness on various social issues), Meditation & Yoga program, Rashtriya Ekta Divas, Contribution to the Armed Force Flag Day Fund, Campus Cleaning Programme & Swachh Bharat Abhiyaan. All were organized in the campus with great enthusiasm and zeal by the said unit.

20.5 Gymkhana:

The NITA Student Gymkhana is a very active student organization that acts as a link between the students and the administration. The Gymkhana promotes the objectives of fostering extra-curricular and co-curricular activities and welfare of students. The Gymkhana is managed by the students, for the students, under the guidance and active participation of the faculty and staff members. It comprises of four committee viz. Cultural committee, Sports and games committee, Technical and Alumni committee. In the hierarchy, individual secretaries of clubs and committees follow general secretaries. All the members of the Students' Gymkhana are elected by the students.

20.6 Games & Sports:

A team of 15 students of NIT Agartala has participated in NORTH EAST SPORTS MEET organized by NIT Silchar from 21-22 January and following are the achievements.

Category	Gold	Silver	Bronze
Boys	2	3	3
Girls	2	8	5

A total of 23 medals were won and achieved overall second position in the meet.

Inter NIT Meet:

A total of 25 students participated and won 1 gold, 1 bronze, 4 stood in 4th position, 3 stood in 5th position and NIT Agartala got overall 7th position among all NITs.

Handball:

Handball team of NIT Agartala participated in All India Inter NIT Handball meet held at NIT Suratkal dated 6th-8th March 2017.

After a nail biting semi final NITA stood in 4th position and Mr. Shivam Kumar (Civil Engineering Department) was awarded best player award.

20.7 Techno-Cultural Activities (ADVAITAM 2017):

ADVAITAM 2017, The Annual Techno-Cultural fest was organized by the students of NIT Agartala in the month of February 2017. Honorable Governor of Mizoram Lt. General Nirbhay Sharma was the chief guest. Fest witnessed spontaneous participation of students from different engineering colleges, universities, schools from the state and outside state of our country. Mega events like music, dance, instrument playing, drama competition and inter-college/school dance, band competition were held during the festival. Apart from this, technical events, such as, motivational talks by eminent speakers from industry/academia, different competitions on technical expertise at school and college levels, robotics shows, art & crafts exhibition, cycleathon by daily casual labours etc. took place during the festival days. Mr. Alok Singh, founder, Novatium (alumnus of NIT Agartala), Mr. Shyamal Majumdar, SGM, NPCC Ltd. (alumnus of NIT Agartala) like enter previous had graced the festival by delivering their motivation talks.

In the year 2017, **ADVAITAM** was held from 9th February to 12th February, 2017. During this program Saktipunj dance troop from NITA, NDS DJ band from Goa, entertained the campus with their scintillating performances. The fest witnessed a Mega Star night with the presence of Bollywood singer Jubin Nautiyal and his troops.

20.8 Other Activities:

The students of NIT-A participate in the national level Technical Fest organized by different IITS and NITS. They are also actively engaged in different technical and cultural clubs like - Music, Photographic, Dance, Robotics, Magazine, Fine Art, Drama Club, and Soft Skill development, Programming, Meditation, Science and Trekking Clubs.

21.0 TRAINING & PLACEMENT AND OTHER FACILITIES
Student Placement at NIT Agartala

Annual Report 2016-17

Centre for Career Development (CCD) started its functioning from December 2015 and is being instrumental in arranging both on-campus & off-campus placement drives for UG students and PG students. CCD also arranges for internship, industrial training and interactive session with industry experts for the students of the institute. Besides this, students are also motivated to participate in seminars, workshops, soft skill development programs and technical discussions organized by various professional bodies. The institute has a good placement record with numerous reputed organizations from the public and private sectors visiting the institute every year to recruit the students with an overall UG placement of 65.14% and PG placement of 26%.

Details of the number of students placed during the period under report are given below as against those registered during 2016-2017:

❖ Branch wise Selection for Batch 2016-17
PLACEMENT RECORD FOR BATCH 2016-2017

Sl. No.	COMPANY	Number of students selected Branch wise/Course wise, (B.Tech, M.Tech,MBA,MCA, M.Sc)																							
		UG (B. Tech) All Branch									PG (M. Tech, BTMT & BSMS) All Branch									BTMT	MCA	MBA	Ph.D	TOTAL	CTC (LPA)
		CE	ME	EE	ECE	EIE	CHE	PE	CSE	BIO	CE	ME	EE	ECE	HE	PE	CSE	Che							
1	Yodlee Software	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	8.75	
2	Oracle GBU	-	-	-	2	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	7	9	
3	CGI (Regular)	1	-	1	6	3	-	2	7	1	-	-	-	-	-	-	-	-	1	-	-	-	22	3.25	
4	CGI (Premium)	-	1	-	2	2	2	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	10	6.8	
5	Amdocs	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	2	-	-	-	-	-	5	6	
6	Intellect Design Arena	-	-	-	10	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	20	5	
7	Maruti Suzuki	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6	
8	Kreeti Technologies	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3.75	
9	Tata Motors	-	6	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	6.15	
10	Vedanta	1	3	3	1	2	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	7.95	
11	Capgemini	7	2	3	5	3	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	23	6	
12	Mphasis	-	-	2	4	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3	-	-	12	4	
13	HSBC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	7	

14	Infosys	13	13	9	9	1	3	2	10	-	2	2	-	1	-	-	3	-	1	-	-	-	69	3.28
15	Ashok Leyland	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5
16	IBM	-	-	7	5	3	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	20	3.7
17	Sapient	-	-	-	5	1	-	-	4	-	-	-	-	-	-	-	-	-	-	1	-	-	11	5.05
18	MAQ Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	7
19	L&T Construction	18	7	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	5.5
20	People Interactive	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5.5
21	Commvault	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	14.81
22	Cummins	-	1	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4.1
23	SPML Infra Ltd	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2.4
24	Sandip University	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-	2	5	6.29
25	Indian Army	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	8
26	JCI	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4.5
27	Zaloni	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3
28	Havells	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4.8
29	Verse Innovation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.5
30	Indian Navy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	RW	8
31	Tech mahindra	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3.2
32	ABB	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5
33	Fiat	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4.7
34	SKF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	4.6
35	Book My Show	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15
36	Buyhatke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	12
37	Smartprix	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	19
38	Persistant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.5
39	Samsung R&D	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	4	8.8
40	HDFC life	-	2	-	8	1	1	6	1	1	0	-	-	-	-	-	-	-	-	-	1	-	21	3
41	Vassar Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	6
42	Adani power	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	RW	4.1

43	Torrent pharmaceuticals	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	3
44	Bandhan bank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	7	3.21
45	ADP	-	-	-	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5
46	HDFC Mutual Fund	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	3.5
47	Axis Bank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	3.47
48	Karvy Stock Broking India	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	3
49	Future Group	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	2.75
50	SSZ	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	7	2.4
51	Ways2capital	3	1	3	1	8	6	5	6		1	1	-	-	-	-	-	-	-	-	2	-	37	3.45
52	Bridge&Roof	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	6
53	Avanti learning centre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	4
54	SAP Labs	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	10
55	BITMapper	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4.3
56	Amazon	-	1	1	-	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2.75
57	Leaders Academic Pvt. Ltd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	3
58	ZS Associates	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	6.3
Total Offer		51	44	34	65	25	18	22	73	10	5	3	1	1	0	0	5	0	3	4	19	2	385	

22.0 CAMPUS AMENITIES AND INFRASTRUCTURE DEVELOPMENT INITIATIVES

22.1 Introduction:

The institute has gone through a rapid growth in its infrastructure Development as per commitment in its strategic plan, a journey towards excellence. Converting an existing State Level Engineering Institute (Viz TEC) having infrastructure and logistic inadequacies into an institute of National excellence is a formidable challenge. But the growth process which has taken place during the last five years at NITA is an indication of growth oriented programmes and realistic planning in the right direction.

22.2 Major Works:

The institute is spread over an area of 365 acres of land. The following works have been completed.

Sl. No.	Name of work	Rupees in Lakhs
1	Construction of Central Library at NITA	4,372.00
2	Construction of Duplex Type Quarters (10nos) at NITA	1,100.00
3	Construction of Central School at NITA	4,095.00

Works in progress (a brief note): The following works are in progress and will be completed very soon.

Sl. No.	Name of work	Rupees in Lakhs
1	Construction of Sports Complex at NIT Agartala.	6,453.00
2	Construction of 1500 Capacity Boys Hostel at NITA	15,243.00
3	Construction of two H4B (48 flats) Buildings at NITA	2,900.00
4	Construction of Market Complex at NITA	770.00

22.3 Housing Facilities: As regards residential buildings, staff housing units having twenty four flats in each of H3A, H3B, H4A, H4B, H5 type housing and twelve flats in each of H2A, H2B type housing have been completed and are in use. The Director's Bungalow is also completed and is occupied. New H4B2 and H4B3 type housing with 24 flats each are in progress.

22.4 Horticulture : Horticultural work located at opposite to Administrative Block at NITA (approximate area 4625 sq. mtr.) has already been taken up and further the same will be spread out to the different lake area within NITA.

22.5 Guest House: There is one Old Guest House at NITA having 13 nos double bed living rooms. There is a Transit House at Agartala having two single bed rooms, one double bed room and one conference hall. A new International Guest House having thirty three single bed rooms, ten suits and five VVIP suits has been constructed

22.6 Hostel : Boys Hostel: Arriyabhatta - 1000 capacity, Howah - 128 capacity, Dhalai - 92 capacity, Gomati - 128 Capacity, Girls Hostel: Gargi - 463 capacity.

22.7 Bank : State Bank of India, Canara Bank, Tripura Gramin Bank are operating in the NITA Campus.

22.8 Post Office: There is a sub-post office in the NITA campus.

23.0 TEQIP - II

Introduction:

The Technical Education Quality Improvement Programme (TEQIP) launched by the Government of India with the World Bank assistance to scale-up and support ongoing efforts to improve quality of Technical Education and enhance existing capacities of the institution to become dynamic, demand-driven, quality conscious, efficient and forward looking, responsive to rapid economic and technological developments occurring both at National and International levels. TEQIP is a long term Programme of 10-12 years duration planned to be implemented in 2-3 phases. The first phase of the TEQIP commenced in March 2003 and ended in March 2009. TEQIP phase two has been introduced in National Institute of Technology Agartala on 3rd August 2011 and closed on 2017 and now NIT Agartala got TEQIP-III and it will be continue upto March 2020. The overview of the TEQIP-II project of NIT Agartala is given as follows:

Project Progress – Expenditure Statement

Fund Received	Status from 01.04.2016 – 31.07.2017 Rs. (in lakh)
GRANT Received (Modernization of NIT Agartala)	100.00
Previous Balance	95.62
Interest and other received	5.41
Total (A)	201.03
Expenditure Incurred Upto 31.07.2017 (B)	193.63
Unspent Balance (A-B)	7.40

Project Progress – Expenditure Statement

Sl. No	Category	Activity	Status from 01.04.2016 – 31.07. 2017 Rs. (in lakh)
1	Procurement	Procurement of goods (equipment, furniture, books, LRs, software and minor items) and civil works for improvement in teaching, training and learning facilities	Total: Rs. 112.46
2	Assistantships	Provide Teaching and Research Assistantships to increase enrolment in existing and new PG programmes in Engineering disciplines	Total: Rs. 00.00
3	R&D	Enhancement of R & D and institutional consultancy activities	Total: Rs. 1.71

4	FSD	Faculty and staff development for improved competence	Total: Rs. 61.05
5	I-I-I- Cells	Enhanced interaction with Industry	Total: Rs. 00.00
6	Capacity development	Institutional Management Capacity enhancement	Total: Rs. 1.39
7	Reforms	Implementation of Institutional academic reforms by NBA for UG Program of CE,EE,ME	Total: Rs. 00.00
8	Student support	Academic support for weak students (*Makeup Examinations and Supplementary Examination along with Summer Class are arranged for weak students. Faculties are paid Rs.1000 per credit upto Rs.4000 per subject in one year from Institute fund.)	Total: Rs. 0.00*
9	IOC	Incremental operating cost	Total : Rs. 17.02
		TOTAL	Rs. 193.63

Project Progress:**Conference, Workshop etc. attended by faculty and students in India are as follows:**

	Particulars	2016-17
Faculty	Attended Conference / Workshop, etc.	126
	IIM Training attended by Administrator	4
Student	Attended Conference / Workshop, etc.	219

Following workshop/Training conducted under TEQIP-II:

SL. No.	Topic of the Workshop/ Training.	Organized by the following Department	Duration
1.	Two days National Workshop on “Advances in Non Conventional Machining Processes”	Production Engineering department.	From 9 th May 2016 to 10 th May 2016.
2.	Two days National Workshop on Advances in Structural Engineering	Civil Engineering department.	From 13 th August 2016 to 14 th August 2016.
3.	Two days National Workshop on Inventory Management : Challenges and Opportunities“	Production Engineering department.	From 26 th September 2016 to 27 th September 2016.
4.	Two days National Workshop on Application of X-Ray Crystallography for Molecular structure Determination	Chemistry department.	From 8 th December 2016 to 9 th December 2016.
5.	Three days workshop on Strategies in Power Electronics	Electrical Engineering department.	From 20 th January 2017 to 22 nd January 2017.

24.0 FINANCE & ACCOUNTS**24.1 Analysis of Plan and Non-Plan Grants :**

(Rs. In Lakhs)

<u>Head</u>	<u>2016-17</u>	<u>2015-16</u>
1. Non- Plan		
Income		
Grant from MHRD	2680.00	2300.00
Total	2680.00	2300.00
Expenditure		
Recurring	5407.22	5041.19
Total	5407.22	5041.19
2. Plan		
Grant from MHRD	9140.00	6499.60
Corpus Fund Transfers		
Total	9140.00	6499.60
Expenditure		
Non-Recurring	5300.72	7068.58

24.1.1 Plan Fund :

<u>Plan</u>	(Rs in Lakhs)
Opening Balance	: 688.48
Grant Sanctioned During 2015-2016	: 9140.00
Funds from other sources	: 81.71
Total Available	: 9910.19
Capital Expenses during 2015-2016	
Building & Construction	: 4827.15
Furniture & Fixtures	: 340.66
Equipments	: 130.41
Other Exp.	: 2.50
Total Utilized	: 5300.72
Unutilized Balance	: 4609.47

24.1.2 Non-Plan Fund :

<u>Non – Plan</u>	(Rs in Lakhs)
Opening Balance	: 234.01
Grant Sanctioned during 2016-2017	: 2680.00
Funds from other sources	: 2472.80
Total Available	: 5386.81
Expenditure during 2016 – 2017	
Pay & Allowances	: 3144.32
Recruitment Benefits	: 293.77
Health Services	: 2.04
Student Scholarship	: 698.61

Administrative Expenses	: 308.27
Student Support Activities	: 58.07
House Keeping & Estate Maintenance	: 613.36
Water / Electricity	: 288.78
Total Utilized	: 5407.22
Unutilized Balance	: (-) 20.41

24.2 Establishment Expenditure:

<u>Sl.No</u>	<u>Head</u>	<u>Amount (In Lakhs)</u>
1.	Pay & Allowance	3144.32
2.	Retirement Benefits	293.77

***Audit Report
&
Annual Accounts 2016 -2017***

ARCF)

3/11/17



NO. ECPA/NIT-SAR/2016-17/443

भारतीय लेखा परीक्षा और लेखा विभाग,
INDIAN AUDIT AND ACCOUNTS DEPARTMENT
महालेखाकार (लेखा परीक्षा) का कार्यालय, त्रिपुरा, अगरतला
OFFICE OF THE ACCOUNTANT GENERAL (AUDIT),
TRIPURA, AGARTALA

पिन / PIN - 799006 फैक्स / Fax - 0381-2350158

ई मेल / email: agautripura@cag.gov.in

Dated: November 02, 2017

To
The Registrar
National Institute of Technology, Agartala
Barjala, Jirania,
Tripura West
Pin- 799046

Subject: - Separate Audit Report on the accounts of NIT, Agartala, for the year 2016-17.

Sir,

I am to sending herewith the Separate Audit Report (SAR) on the accounts of NIT, Agartala for the year 2016-17 along with a Management letter for further action at your end.

Enclo:- As stated

Yours faithfully,

[Signature]
02/11/2017

Deputy Accountant General (Audit)

For RKM Phad
[Signature]
3.11.17

**SEPARATE AUDIT REPORT OF THE COMPTROLLER AND AUDITOR
GENERAL OF INDIA ON THE ANNUAL ACCOUNTS OF THE NATIONAL
INSTITUTE OF TECHNOLOGY, AGARTALA FOR THE YEAR ENDED
31 MARCH 2017**

We have audited the attached Balance Sheet of the National Institute of Technology (NIT), Agartala as on 31 March 2017, the Income and Expenditure Account and Receipts and Payments Account for the year ended on that date under Section 19(2) of the Comptroller and Auditor General's (Duties, Powers & Conditions of Service) Act, 1971. These financial statements are the responsibility of the management of the NIT, Agartala. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This Separate Audit Report contains the comments of the Comptroller and Auditor General (C&AG) of India on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules and Regulations (Propriety and Regularity) and efficiency-cum-performance aspects etc., if any, are reported through Inspection Reports/ C&AG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

4. Based on our audit, we report that:

i) We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit.

ii) The Balance Sheet, Income and Expenditure Account/ Receipt and Payment Account dealt with by this report have been drawn up in the format prescribed by the Ministry of Human Resources Development (MHRD), the Government of India vide order No. 29-4/2012-FD dated 17 April 2015.

iii) In our opinion, proper books of accounts and other relevant records have been maintained by the NIT Agartala as far as it appears from our examination of such books.

iv) We further report that:

A. Balance Sheet

Assets

Fixed Assets

Capital work-in-progress	Schedule – 4	₹ 243.45 crore
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A. 1. The above head is overstated by ₹ 125.68 crore due to non-transfer of 8 construction works¹ (plan fund: 6 and non-plan fund: 2) to Tangible Assets though these were already taken over by NIT, Agartala between 2011-12 and 2016-17 after completion of construction activities. This has also resulted in understatement of Tangible Assets (Net Block) by ₹ 123.01 crore and overstatement of Corpus Fund by ₹ 2.67 crore due to non-provision of depreciation on these assets.

Corpus /Capital Fund and Liabilities

Designated/ Earmarked/ Endowment Funds	Schedule – 2	₹ 53.34 crore
--	--------------	---------------

A. 2. The above is overstated by ₹ 53.34 crore as it includes unspent amount of plan grant which was required to be booked as 'Current Liabilities and Provisions' under Schedule 3 as per the format of accounts approved by MHRD. This has also resulted in understatement of current liabilities by ₹ 53.34 crore.

Corpus /Capital Fund and Liabilities

Designated/ Earmarked/ Endowment Funds	Schedule -2	₹ 53.34 crore
--	-------------	---------------

A. 3. The above head was understated by ₹ 1.92 crore due to double deduction of grant utilisation (₹ 0.96 crore) and wrong posting of balance from Schedule 2 (₹ 0.96 crore). This has also resulted in overstatement of Corpus/ Capital Fund by ₹ 1.92 crore.

Corpus /Capital Fund and Liabilities

Current Liabilities & Provision	Schedule -3	₹ 50.43 crore
---------------------------------	-------------	---------------

A. 4. As per instructions given in the format of accounts notified by MHRD, the Provident Fund Account and the New Pension Scheme Account are owned by the members of those funds and not by the Institute. These accounts are required to be separated from the Institution's Account. However, the Institute has incorporated balance of funds in its annual accounts. These should be maintained separately as MHRD format of Accounts.

¹ Construction of market complex (plan): ₹ 3.26 crore; construction of internal road: ₹ 2.47 crore; construction of sports complex: ₹ 61.52 crore; construction of central library: ₹ 28.76 crore; construction of H4B building: ₹ 22.98 crore; construction of central plaza: ₹ 2.28 crore; construction of market complex (non-plan): ₹ 4.35 crore; construction of administrative building: ₹ 0.06 crore.

B. Income and Expenditure Account**Expenditure****Depreciation****Schedule - 4****₹ 34.35 crore**

B.1. As per Schedule 23 of the format of accounts notified by MHRD, depreciation on Fixed Assets added during the year is to be provided for the whole year. However, the Institute has charged depreciation on assets added after September 2016 for six months. The financial impact of this deviation from MHRD's instructions was not disclosed in the Accounts. This has resulted in under-charging of depreciation by ₹ 2.89 crore with corresponding overstatement of Fixed Assets and Deficit by an equal amount.

Prior Period Expenses**Schedule - 22****NIL**

B.2. The above is understated by ₹ 3.14 crore due to non-provision of prior period depreciation on three capital works² (plan: 1 and non-plan: 2) which were completed and taken over by the Institute during 2011-12 to 2014-15 but taken to Tangible assets during the current year. This has also resulted in overstatement of Tangible Assets (Net Block) and Corpus/ Capital Fund by ₹ 3.14 crore each.

C. General

1. The erstwhile Tripura Engineering College (TEC) was converted into NIT Agartala vide decision of the Union Cabinet on 23 February 2006. The Institute had identified total net assets of ₹ 16.08 crore which was examined and approved by the Government of Tripura (May 2008). The Institute is yet to incorporate those assets and liabilities into its accounts even though it is in possession of the same.

2. As per the instructions contained in formats of accounts prescribed by MHRD under Schedule 23, Designated/ Earmarked/Endowment Funds are those funds which are set aside by the institute for identified specific purpose. Income from these items is credited to the respective fund accounts. Similarly, expenditure is also debited to fund accounts. NIT Agartala has maintained 16 fund accounts³ wherein related income/expenditure is credited/ debited to the respective fund account itself. These funds were, however, booked under current liabilities and provisions. Thus, there is inconsistency in accounting of these funds.

² Housing and Guest House (taken over on 02 December 2014); ₹ 60.95 crore; Workshop (31 December 2011); ₹ 0.03 crore; Electrical Installation (24 March 2015); ₹ 0.68 crore.

³ Project : ₹ 0.64 crore; Retirement Benefit : ₹ 10.04 crore; Student Welfare : ₹ 0.12 crore; Staff Development : ₹ 0.01 crore; Institute Development : ₹ 7.48 crore; EMD & Security Deposit: ₹ 2.43 crore; Infrastructural Development : ₹ 0.86 crore; Sponsored Project : ₹ 9.76 crore; Staff Welfare : ₹ 0.008 crore; Departmental Promotional (Civil): ₹ 0.23 crore; NSS Unit : ₹ 0.004 crore; Director's Relief : ₹ 0.03 crore; School of Continuing Education : ₹ 0.003 crore; Guest House : ₹ 0.34 crore; NIT Transit House : ₹ 0.02 crore; TEQIP : ₹ 1.28 crore.

D. Grant-in-aid

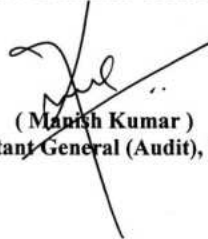
During the financial year 2016-17, the Institute received ₹ 118.20 crore (Plan ₹ 91.40 crore and Non-plan: ₹ 26.80 crore) as grant-in-aid from the Government of India. An unspent balance of ₹ 9.22 crore (Plan: ₹ 6.88 crore and Non-plan: ₹ 2.34 crore) was lying with the Institute as on 1 April 2016 while the internal income of the Institute for the year 2016-17 was ₹ 25.55 crore. Against a total available fund of ₹ 152.97 crore, the Institute could utilize only ₹ 107.08 crore during the year leaving an unspent balance of ₹ 45.89 crore as on 31 March 2017.

v) Subject to our observations in the preceding paragraphs, we report that the Balance Sheet and Income and Expenditure Account and Receipts and Payments Account dealt with by this report are in agreement with the books of Accounts.

vi) In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read with the Accounting Policies and Notes on Accounts, and subject to the significant matters stated above and other matters mentioned in *Annexure* to this Audit Report, give a true and fair view in conformity with accounting principles generally accepted in India:

- a. In so far as it relates to the Balance Sheet of the state of affairs of the National Institute of Technology, Agartala as at 31 March 2017.
- b. In so far as it relates to Income and Expenditure Account of the deficit for the year ended on that date.

For and on behalf of the
Comptroller & Auditor General of India



(Manish Kumar)
Accountant General (Audit), Tripura

Date : 02 November 2017
Place : Agartala

Annexure

INTERNAL CONTROL AND INTERNAL AUDIT

Audit evaluation of internal control and internal audit system is summarised as under:

(1) Adequacy of internal audit system

The Internal Audit wing of the Institute was created vide circular dated 11 May 2016. However, the Internal Audit wing is basically non-functional as it could not conduct any audit programme for want of adequate staff.

(2) Adequacy of internal control system

- (i) The Institute has not yet prepared any Accounting, Audit and Internal Control manual of its own.
- (ii) Even though many capital works were completed and taken over, there was inadequate delay in transferring the same to "Tangible Assets".

(3) System of physical verification of fixed assets and inventory

The physical verification report of fixed assets and inventories was prepared only for those assets which were damaged or not in working condition. Majority of those assets (88 *per cent*) were shown to be in a repairable condition. However, steps taken to repair those assets were not available on record. Assets found to be short (possible theft) were also not reported to the police as is required under GFR Rule No. 34.

(4) Regularity in payment of dues

As per Account no payment over 6 months in respect of statutory dues was outstanding as on 31.03.2017.

Confidential

No. ECPA/SAR/NIT/2016-17/444



INDIAN AUDIT AND ACCOUNTS DEPARTMENT
OFFICE OF THE ACCOUNTANT GENERAL (AUDIT),

TRIPURA, AGARTALA

PIN – 799006

Phone: 0381 - 235 0031

FAX: 0381 - 235 0158

Email: agautripura@cag.gov.in

Dated: 02 November, 2017

To
The Registrar,
National Institute of Technology, Agartala,
Barjala, Jirania, West Tripura,
Pin: 799 046.

Subject: Draft Management Letter on the annual accounts of the NIT, Agartala for the year ended 31 March 2017

Sir,

Certification audit on the annual accounts of National Institute of Technology, Agartala for the year ended 31 March 2017 was taken up by this office under Section 19(2) of the Comptroller and Auditor General's (Duties, Powers & Conditions of Service) Act, 1971. A Separate Audit Report (SAR) incorporating final comments of C&AG is issued along with this letter. Apart from the audit comments issued in SAR, audit has noticed four points which required management's action to ensure compliance to the instructions of MHRD with respect to preparation of annual accounts.

Enclosed: As stated.

Yours faithfully,

02/11/2017
Deputy Accountant General (Audit)

ANNEXURE TO THE MANAGEMENT LETTER

1. As per Schedule 9 of the format of accounts notified by MHRD, the Academic Receipts are to be classified as Fees from students, Other Fees, Sale of Publications and Other Academic Receipts. These heads are again to be sub-divided into various heads, viz. "Fees from students" into Tuition fee, Admission Fee, Enrolment Fee, Library Admission Fee, Laboratory Fee, etc. However, the Institute booked the above under the head "Academic Receipts" with no detailed break-up in the Schedule.
2. As per the format of accounts notified by MHRD, the Fixed Assets are to be classified as Tangible Assets, Intangible Assets and Capital Works-in-Progress on the face of the Balance Sheet. However, the Institute did not provide the requisite break-up on the face of the Balance Sheet which was in contravention to the prescribed format.
3. As per the prescribed format of accounts, the Institute was required to disclose fund-wise movement of the fund/ grant indicating opening balance, amount credited/ addition in the fund accounts, utilisation and closing balance in Schedules 2 and 3(a). The Institute, however, disclosed only closing balance of the consolidated fund without any other details.
4. The Institute has not segregated the nature of expenditure into plan and non-plan in Schedules 15 to 20 as required under the formats of accounts prescribed by MHRD.

Prath
02/11/2017

Audit Officer/ ECPA



NATIONAL INSTITUTE OF TECHNOLOGY AGARTALA

ANNUAL ACCOUNTS 2016-17



S.A. MAJUMDER & ASSOCIATES
Chartered Accountants

Office: Thakurpally Road,
Krishna Nagar, Agartala
Tripura (West)- 799001
casyamal@yahoo.co.in
Ph: 0381 2325276

NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA
Internal Audit Report for the period from 01.04.2016 to 31.03.2017

With reference to the letter No. NITA.4(10-Accounts)/2007/Vol-2/1749 dated 30th May 2017, we have conducted the Internal Audit of NIT Agartala for the period from 01.04.2016 to 31.03.2017 and our observations in this respect are as follows:

1. Grant received by NIT Agartala from MHRD, New Delhi during the financial year 2016-17 as follows:

For Plan Fund:

Sl. No	Sanction Memo	Date of sanction	Amount in Lakhs
1	F.36-3/2016-TS-III	07.09.2016	2800.00
2	F.36-3/2016-TS-III	28.11.2016	1300.00
3	F.36-3/2016-TS-III	20.12.2016	1300.00
4	F.36-3/2016-TS-III	26.12.2016	1740.00
5	F.36-3/2016-TS-III	15.02.2017	1800.00
6	F.36-3/2016-TS-III	20.03.2017	200.00
	Total		9140.00

For Non-Plan Fund:

Sl. No	Sanction Memo	Date of sanction	Amount in Lakhs
1	F.36-4/2016-TS-III	26.05.2016	500.00
2	F.36-4/2016-TS-III	08.06.2016	500.00
3	F.36-4/2016-TS-III	04.08.2016	500.00
4	F.36-4/2016-TS-III	27.10.2016	100.00
5	F.36-4/2016-TS-III	11.11.2016	200.00
6	F.36-4/2016-TS-III	13.12.2016	200.00
7	F.36-4/2016-TS-III	16.02.2017	450.00
8	F.36-4/2016-TS-III	10.03.2017	230.00
	Total		2680.00





S.A. MAJUMDER & ASSOCIATES
Chartered Accountants

Office: Thakurpally Road,
Krishna Nagar, Agartala
Tripura (West)- 799001
casyamal@yahoo.co.in
Ph: 0381 2325276

2. CASH BOOK:

OBSERVATIONS:

- Cash Book namely Plan Fund and Non-Plan Fund have been properly maintained and closed on daily basis.
- We made test check of the Cash Book, Bank vouchers related to the Month of May2016, September 2016, December 2016, February 2017 and March2017 and found to be in order.
- Bank statements have been obtained from SBI, NIT, Agartala Branch on monthly basis and monthly balance is confirmed through reconciliation. Closing Bank Balance as on 31.03.2017 are as follows:

Sl. No	Name of Bank, Branch	Head of A/c	Balance as on 31.03.2017 (Rs)
1	SBI, NIT Agartala Br	Plan Fund	40,69,43,102.00
2	Canara Bank, NIT Agartala Br	Plan Fund	10,10,00,000.00
3	SBI, NIT Agartala Br	Non-Plan Fund	2,05,89,569.00
4	Canara Bank, NIT Agartala Br	Non-Plan Fund	4,48,955.00

- The following uncleared cheques are shown in the bank reconciliation statement. Those cheques should be reversed.

For Plan Fund:

Sl. No	Cheque No	Cheque date	Amount (Rs)
1	071775	18.08.2014	12,885.00

For Non-Plan Fund:

Sl. No	Cheque No	Cheque date	Amount (Rs)
1	788974	05.01.2016	3,174.00
2	380489	30.08.2016	21,000.00
3	380545	14.09.2016	800.00
4	380579	14.09.2016	1,200.00
5	515285	25.10.2016	12,827.00
6	515656	29.11.2016	4,349.00
7	515659	29.11.2016	29,536.00
8	515684	01.12.2016	470.00
9	515714	13.12.2016	4,107.00
10	515715	13.12.2016	242.00
11	515796	20.12.2016	8,687.00
		Total	86,392.00





S.A. MAJUMDER & ASSOCIATES
Chartered Accountants

Office: Thakurpally Road,
Krishna Nagar, Agartala
Tripura (West)- 799001
casyamal@yahoo.co.in
Ph: 0381 2325276

COMMENTS:

- Maintenance of Cash Book and other related books and records is satisfactory

3. ADVANCES:

OBSERVATIONS:

- NIT Agartala has maintained common Advance Register.
- Temporary advances lying unadjusted as on 31.03.2017 amounting Rs. 13,76,488/-. Efforts to be made for adjustment of those at the earliest.
- Unadjusted advances given to third parties as on 31.03.2017 under Plan Fund are as follows:

Sl. No	Name of Party/Agency	Amount of Advance as on 31.03.2017 (Rs)	Remarks
1	BSNL-Agartala	1,72,764.00	
2	PHE-Agartala	15,60,100.00	
3	THB-Agartala	76,40,420.00	
4	DWS Deptt-Agartala	26,95,300.00	
5	EPIL	1,02,00,000.00	
6	CPWD-Agartala	6,67,84,092.00	
7	Bridge & Roof Co	13,65,19,625.00	
8	RD Deptt-Agartala	40,00,000.00	
	Total	22,95,72,301.00	

- Unadjusted advances given to third parties as on 31.03.2017 under Non-Plan Fund is as follows:

Sl. No	Name of Party/Agency	Amount of Advance as on 31.03.2017 (Rs)	Remarks
1	RD Deptt-Agartala	20,00,000.00	
	Total	20,00,000.00	

4. FIXED ASSETS:

- Computerized Fixed Assets Register has been maintained by NIT Agartala.
- Depreciation has been charged in Straight Line Method.
- No insurance coverage for any Fixed Assets is taken.





S.A. MAJUMDER & ASSOCIATES
Chartered Accountants

Office: Thakurpally Road,
Krishna Nagar, Agartala
Tripura (West)- 799001
casymal@yahoo.co.in
Ph: 0381 2325276

5. TENDER ALLOTMENT:

The Control system related to tender allotment seemed to be appropriate. Our review to the system of tender allotment revealed that the system comprised of the following processes:

1. Advertisement in newspaper and website of the Institute. 2. Distribution of tender forms from NIT Agartala and also displayed Institute Website. 3. Submission of Tender Bids by the bidders in Tender Box within the specific time and date. 4. Opening of the tenders in front of the Committee formed by the Institute. 5. Preparation of comparative statement. 6. Selection of the lowest bid. 7. Negotiation of the lowest bidder, if necessary.

COMMENTS:

- The tender processing is found to be satisfactory.

We thankfully acknowledge the Co-operation extended by the Officers/officials of NIT Agartala in conducting the Internal Audit.

For,

S.A. MAJUMDAR & ASSOCIATES
(Chartered Accountants)

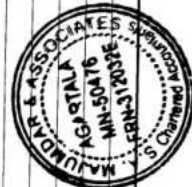
(Signature)
(CA. S. Majumdar)
Chartered Accountant

Date: 24.06.2017
Place: Agartala



FORM OF FINANCIAL STATEMENTS (NON- PROFIT ORGANISATIONS)
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA
BALANCE SHEET AS AT 31.03.2017

CORPUS / CAPITAL FUND AND LIABILITIES	Schedule	Amount Rs	
		Current year 2016-2017	Previous year 2015-2016
CORPUS / CAPITAL FUND			
DESIGNATED / EARMARKED / ENDOWMENT FUNDS	1	7413127536	7037660735
CURRENT LIABILITIES & PROVISION	2	542922811	259902337
	3	504346901	604696333
TOTAL		8460397248	7902259405
ASSETS			
FIXED ASSETS			
INVESTMENTS - FROM EARMARKED / ENDOWMENT FUNDS	4	7268059703	6997203496
INVESTMENTS OTHERS	5	0	0
CURRENT ASSETS	6	0	0
LOANS & ADVANCES-PLAN FUND	7	957280725	573480845
LOANS, ADVANCES & DEPOSITS	2(ii)	229572301	324272301
	8	5484519	7302763
TOTAL		8460397248	7902259405
SIGNIFICANT ACCOUNTING POLICIES	23		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	24		
Assstt. Registrar (Finance) (Jagatiyoti Roy) Asstt. Registrar (Finance) National Institute of Technology, Agartala For	Assstt. Registrar (DR. GOVIND BHARGAVA) Registrar, NIT, Agartala.	Director (Dr. Gopal Mugeraya) Director National Institute of Technology Agartala	
S.A. MAJUMDAR & ASSOCIATES (Chartered Accountants)			
(CA S. Majumdar) Chartered Accountant			





FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)						
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA						
RECEIPTS AND PAYMENTS FOR THE PERIOD/ PAYMENTS ENDED ON 31.03.2017						
RECEIPTS	(Amount - Rs.) Current Year 2016-2017	(Amount - Rs.) Previous Year 2015-2016	PAYMENTS	(Amount - Rs.) Current Year 2016-2017	(Amount - Rs.) Previous Year 2015-2016	
I) Opening Balance:			Non-Plan Expenditure:			
In Savings Plus A/c (Non-Plan)			i) EXPENSES:			
Bank (SBI, NIT Agt Br)	21933333	42214178	a) Staff Payment & Benefit	294356444	253921441	
Bank (Canara Bank Agt Br)	448955	448955	b) Administrative & Gen. Expenses	99009757	104395149	
Cash	272414	1523727	c) Academic Expenses	79933028	838660839	
	22654702		d) Transportation Expenses	1786417	1695015	
Opening Balance: (Plan)			e) Repair & Maintenance	10824790	10970033	
Bank- SBI, NITA Br.	119477649	181068495	f) Finance Cost	70243	454849264	
Bank (Canara Bank Agt Br)	19541	19541				
Cash	0	67780	II) Expenditure on Fixed Assets &	485980679	6787	
	119497190		Capital Working progress :-			
			Fixed Assets:			
			Plan	482035226	505775938	
III) GRANTS RECEIPTS:			Non- Plan	6223077	7519649	
From MHRD (Govt. Of India)					513295587	
a) Plan Fund	914000000	649960000	III) Other Payments			
b) Non Plan Fund	268000000	230000000	a) Stipend /Scholarship			
			Otherstate-Stipend	12575650	2785170	
IV) Interest Received			Moutoshi Kar Memorial	5000	0	
a) Plan Fund	8173919	5342545				
b) Non-Plan Fund	2857840	3270319	IV) Advances			
	11031759	8612864	a) Plan	463000000	2089000000	
V) Any other received			b) Non-Plan	0	0	
a) Academic Collection	239322200	244038346				
b) Miscellaneous Receipts	258835	21658	Inst Dev Fund	7310000	8130000	
c) Library Caution Money	4626000	4748000	Exp. for CCB & CCMT	2026602	3041009	
d) CCB & CCMT Fees	4552113	5522247	Retirement Benefit Fund	28500000	28443437	
	248759148		Library Caution Money	7654199	3231952	
Intt on Mobilization Advance	842036		Grant to KV, NIT Agartala	14700000	10000000	
Temporary Advance Received	329320		Exp for NMEICT(Fund tr to NIT Nagaland)	0	500000	
LTC Advance Received	0		LTC Advance to Faculty & Staff	3561680	3105100	
Loan from Other Projects	35000000		Temporary Advance to Employees	981796	1621892	
Otherstate-Stipend Received	13002297		Expenditure from Plan Fund	5393998	3050738	
Miscellaneous Receipts-Plan					0	
Advance Received-Plan	1217		V) Closing Balance			
	0		a) In Savings Plus A/c (Non-Plan)			
			Bank-Canara Bank, AGT Br	448955	448955	
			Bank-SBI, NITA Br	20589569	21933333	
			Cash	888136	272414	
				21926660	22654702	
			b) In Savings Plus A/c (Plan)			
			Bank-Canara Bank, Agt Br	101000000	19541	
			SBI, NITA Br.	406943102	119477649	
			Cash	0	119497190	
				507943102	0	
			TOTAL	1633117669	1383106041	

For S. Majumdar & Associates.
Chartered Accountants

AGARTALA
FRN-312032E-10
24/06/17




(CA S. Majumdar)

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Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA			
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD / YEAR ENDED ON 31.03.2017			
Particulars	Schedule	STUDENT WELFARE FUND	
		Current year 2016-2017	Previous year 2015-2016
INCOME			
1. Opening Bank Balance(S.B A/c)		1537670	985732
2. Income from Sales / Services-			
3. Fees / Subscriptions		61764	605949
4. Interest Earned		65504	38386
TOTAL		1664938	1630067
EXPENDITURE			
Bank Charges		429809	92397
Closing Bank Balance (S.B. A/c)	7	173	0
		1234956	1537670
TOTAL		1664938	1630067
NEW PENSION SCHEME-TIER-I FUND			
Particulars	Schedule	Current year 2016-2017	Previous year 2015-2016
INCOME			
1. Opening Balance:			
S.B. A/c		93234	35437
Fixed Deposit		63876540	59333605
2. Income from Sales / Services-			
3. Fees / Subscriptions		0	0
Employee/ Employer's Contribution		0	0
Employee/ Employer's Contribution-FD		16013562	13816700
4. Interest Earned-S.B.Accounts		0	0
5. Interest Earned-F.D.Accounts		43930	19747
TOTAL		80027266	77748454
EXPENDITURE			
Fund transfer to CRA (NSDL)		0	0
Bank Charges		16071702	13778680
Fixed Deposit		0	0
Bank Balance (S.B. A/c)	7	63876540	63876540
	7	79024	93234
TOTAL		80027266	77748454
For			
S.A. MAJUMDAR & ASSOCIATES (Chartered Accountants)			
(CA S. Majumdar)			
Chartered Accountant			
(Jagatiyoti Roy) Asstt. Registrar (Finance) National Institute of Technology, Agartala			
(Dr. Gopal Mugeraya) Director National Institute of Technology Agartala			

Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA				
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD / YEAR ENDED ON 31.03.2017				
INCOME	Particulars	Schedule	RETIREMENT BENEFIT FUND	
			Current year 2016-2017	Previous year 2015-2016
1. Opening Balance:				
S.B. A/c				
Fixed Deposit			20142229	14963180
2. Income from Sales / Services-			86100292	48013949
3. Fees / Subscriptions			0	0
4. Fees / Subscriptions-FD			4058414	51442267
5. Interest Earned-S.B.Accounts			0	0
6. Interest Earned-F.D.Accounts			876112	1094401
			6091302	3086343
TOTAL			117268349	118600140
EXPENDITURE(Pension/Gratuity)				
Bank Charges			16864350	12357619
Fixed Deposit			230	0
Bank Balance (S.B. A/c)	7		92191594	86100292
	7		8212175	20142229
TOTAL			117268349	118600140
INCOME	Particulars	Schedule	INSTITUTE DEVELOPMENT FUND	
			Current year 2016-2017	Previous year 2015-2016
1. Opening Balance:				
S.B. A/c				
Fixed Deposit			3645228	624121
2. Income from Sales / Services-			65385690	47211782
3. Fees / Subscriptions			0	0
4. Interest Earned-S.B.Accounts			754570	17524311
5. Interest Earned-F.D.Accounts			296593	496796
			4724950	3173908
TOTAL			74807031	69030918
Expenditure				
Fixed Deposit			0	0
Bank Balance (S.B. A/c)	7		70110640	65385690
	7		4696391	3645228
TOTAL			74807031	69030918
For				
S.A. MAJUMDAR & ASSOCIATES				
(Chartered Accountants)				
(CA S. Majumdar)				
Chartered Accountant				
(Jagatiyoti Roy)				
Asstt. Registrar (Finance)				
National Institute of Technology, Agartala.				
(DR. GOPAL MUGERAYA)				
Director				
National Institute of Technology				
Agartala.				

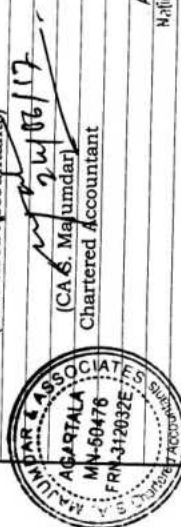
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA			
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD / YEAR ENDED ON 31.03.2017			
Particulars	Schedule	Current year 2016-2017	Previous year 2015-2016
INCOME			
1. Opening Balance:			
S.B. A/c		84172	63867
2. Income from Sales / Services-			
3. Fees / Subscriptions		0	0
4. Interest Earned-S.B.Accounts		866	17712
		4255	2593
TOTAL		89293	84172
Bank Balance (S.B. A/c)	7	89293	84172
TOTAL		89293	84172
PROJECT FUND			
INCOME			
1. Opening Bank Balance (S.B. A/c)			
1. Income from Sales / Services-		2916193	4479422
2. Fees / Subscriptions		0	0
3. Fees / Subscriptions-Tr. From College A/c		6281446	1684072
4. Interest Accrued-S.B. Accounts		0	0
TOTAL (A)		151354	159918
EXPENDITURE:			
Service Tax		833930	178958
Refund to Parties		0	0
Exp. & Distribution to Faculties & Staffs		2082613	3228031
Bank Charges		1323	230
Fixed Deposit		0	0
Closing Bank Balance (S.B. A/c)	7	6431127	2916193
TOTAL (B)		9348993	6323412
For			
S.A. MAJUMDAR & ASSOCIATES			
(Chartered Accountants)			
CA S. Majumdar			
Chartered Accountant			
(Jagatiyoti Roy)			
Asstt. Registrar (Finance)			
National Institute of Technology, Agartala.			
Dr. Gopal Mugeraya			
Director			
National Institute of Technology, Agartala.			

Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA				
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD / YEAR ENDED ON 31.03.2017				
INCOME	Particulars	Schedule	EMD & SECURITY DEPOSIT	
			Current year 2016-2017	Previous year 2015-2016
1. Opening Balance:				
S.B. A/c			13271183	12459872
Fixed Deposit			18378390	17046710
2. Income from Sales / Services-			0	0
3. Fees / Subscriptions			10838717	6917763
4. Interest Earned-S.B.Accounts			585968	568804
5. Interest Earned-F.D.Accounts			1207670	1331680
TOTAL			44281928	38324829
EMD & Security Released				
Bank Charges			9904830	6675256
Loan to Non-Plan Fund			2447	0
Fixed Deposit			10000000	0
Bank Balance (S.B. A/c)	7		19586060	18378390
TOTAL	7		44281928	38324829
INFRASTRUCTURAL DEVELOPMENT FUND				
INCOME	Particulars	Schedule	Current year 2016-2017	
			2016-2017	2015-2016
1. Opening Balance:				
S.B. A/c			767724	708755
Fixed Deposit			7769158	7534204
2. Income from Sales / Services-			0	0
3. Fees / Subscriptions			0	0
4. Interest Earned-S.B. Accounts			64509	58969
5. Interest Earned-F.D.Accounts			16846	234954
TOTAL			8618237	8536882
Expenditure				
Fixed Deposit			0	0
Bank Balance (S.B. A/c)	7		7786004	7769158
TOTAL	7		8618237	8536882
For				
S.A. MAJUMDAR & ASSOCIATES				
(Chartered Accountants)				
				
Chartered Accountant			(Jagatjyoti Roy) Asstt. Registrar (Finance) National Institute of Technology, Agartala.	
				
			(Dr. Gopal Mugeraya) Director National Institute of Technology Agartala.	
			(Dr. Govind Bhargava) Registrar, NIT, Agartala.	

Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD / YEAR ENDED ON 31.03.2017

INCOME	Particulars	Schedule	SPONSORED PROJECT FUND	
			Current year 2016-2017	Previous year 2015-2016
1. Opening Balance:				
S.B. A/c				
Fixed Deposit			21374858	25463539
2. Income from Sales / Services-			80520379	78478752
3. Fees / Subscriptions			0	0
4. Other Income			31733611	22852532
4. Interest Earned-S.B.Accounts			0	0
5. Interest Earned- F.D. A/c			1508504	1035564
			6499341	2041627
TOTAL			141636693	129872014
EXPENDITURE				
Bank Charges			18940703	27976437
Loan to Non-Plan Fund			687	340
Fixed Deposit			25000000	0
Bank Balance (S.B. A/c)		7	87019720	80520379
		7	10675583	21374858
TOTAL			141636693	129872014

For
S.A. MAJUMDAR & ASSOCIATES
(Chartered Accountants)



(CA S. Majumdar)
Chartered Accountant

(Jagatiyoti Roy)
Asstt. Registrar (Finance)
National Institute of Technology, Agartala.

(DR. GOVIND BHARGAVA)
Registrar,
NIT, Agartala.

(Dr. Gopal Mugeraya)
Director
National Institute of Technology,
Agartala.

Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA			
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD / YEAR ENDED ON 31.03.2017			
Particulars	Schedule	STAFF BENEFIT TRUST (GPF)	
		Current year 2016-2017	Previous year 2015-2016
INCOME			
1. Opening Balance:			
S.B. A/c		632390	98897
2. Income from Sales / Services-			
3. Fees / Subscriptions		0	0
4. Interest Earned-S.B.Accounts		5595000	5983500
TOTAL		21142	22722
EXPENDITURE			
Remittance		6248532	6105119
Bank Charges		0	0
Bank Balance (S.B. A/c)	7	6096000	5472500
		0	229
		152532	632390
TOTAL		6248532	6105119
DIRECTOR'S RELIEF FUND			
Particulars	Schedule	DIRECTOR'S RELIEF FUND	
		Current year 2016-2017	Previous year 2015-2016
INCOME			
1. Opening Balance:			
S.B. A/c		345914	332482
2. Income from Sales / Services-			
3. Fees / Subscriptions		0	0
4. Interest Earned-S.B.Accounts		0	0
TOTAL		17599	13432
EXPENDITURE			
Bank Charges		363513	345914
Bank Balance (S.B. A/c)	7	0	0
		363513	345914
TOTAL		363513	345914
For			
S.A. MAJUMDAR & ASSOCIATES (Chartered Accountants)			
(CA S. Majumdar)			
Chartered Accountant			
For			
(Dr. Gopal M. Bhargava)			
Director			
National Institute of Technology, Agartala			

(Dr. Gopal M. Bhargava)
Director
National Institute of Technology,
Agartala

(Dr. Gopal M. Bhargava)
Registrar,
NIT, Agartala.

Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA				
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD / YEAR ENDED ON 31.03.2017				
INCOME	Particulars	Schedule	SCHOOL OF CONTINUING EDUCATION	
			Current year 2016-2017	Previous year 2015-2016
1. Opening Balance:				
S.B. A/c			34021	32700
2. Income from Sales / Services-				
3. Fees / Subscriptions			0	0
4. Interest Earned-S.B.Accounts			1731	1321
TOTAL			35752	34021
Bank Charges			0	0
Bank Balance (S.B. A/c)	7		35752	34021
TOTAL			35752	34021
GUEST HOUSE FUND				
INCOME	Particulars	Schedule	Current year 2016-2017	Previous year 2015-2016
1. Opening Balance:				
S.B. A/c			2402892	1451148
2. Income from Sales / Services-				
3. Fees / Subscriptions			994340	881200
4. Interest Earned-S.B.Accounts			139142	70544
TOTAL			3536374	2402892
EXPENDITURE				
Bank Charges			67500	0
Bank Balance (S.B. A/c)	7		3468874	2402892
TOTAL			3536374	2402892
For				
S.A. MAJUMDAR & ASSOCIATES				
(Chartered Accountants)				
22/05/17				
AGARTALA				
6. Majumdar				
Chartered Accountant				
(Jagatiyoti Roy)				
Asstt. Registrar (Finance)				
National Institute of Technology, Agartala.				
DR. GOVIND BHARGAVA				
Registrar,				
NIT, Agartala.				


 Dr. Govind Bhargava
 Director
 National Institute of Technology
 Agartala

Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD / YEAR ENDED ON 31.03.2017





Particulars		Schedule	NIT TRANSIT HOUSE FUND	
INCOME			Current year 2016-2017	Previous year 2015-2016
1. Opening Balance:				
S.B. A/c			284797	270327
2. Income from Sales / Services-				
3. Fees / Subscriptions			0	0
4. Interest Earned-S.B.Accounts			14490	3500
TOTAL			299287	11020
EXPENDITURE				
Bank Charges			0	0
Bank Balance (S.B. A/c)	7		299287	50
TOTAL			299287	284797
				284847
Particulars		Schedule	TEOIP FUND	
INCOME			Current year 2016-2017	Previous year 2015-2016
1. Opening Balance:				
S.B. A/c			9561800	22910066
2. Grant from MHRD				
3. Fees / Subscriptions			10000000	0
4. Interest Earned-S.B.Accounts			1357141	972235
TOTAL			21372208	828953
EXPENDITURE				
Bank Charges			8508592	15148542
Bank Balance (S.B. A/c)	7		919	912
			12862697	9561800
TOTAL			21372208	24711254
For				
S.A. MAJUMDAR & ASSOCIATES				
(Chartered Accountants)				
(CA B. Majumdar)				
Chartered Accountant				



(Jagatiyoti Roy)
 Asstt. Registrar (Finance)
 National Institute of Technology, Agartala

(DR. GOVIND BHARGAVA)
 Registrar,
 NIT, Agartala.

(Dr. Gopal Mugeraya)
 Director
 National Institute of Technology
 Agartala

FORM OF FINANCIAL STATEMENTS (NON- PROFIT ORGANISATIONS)			
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2017			
	Current Year 2016-2017	Previous Year 2015-2016	(Amount - Rs.)
SCHEDULE 1- CORPUS / CAPITAL FUND :			
Balance as at the beginning of the year	7037660735	6470012674	
Add Contributions towards Earmarked/Endowment Fund	613468302	652046174	
Add (Deduct) balance of Net Income/ Expenditure transferred from the Income and Expenditure Account.	(350638501)	(84398113)	
Add: DoNER Fund (Creation of Capital Assets)	112637000	0	
Add: Other Additions			
BALANCE AS AT THE YEAR - END	7413127536	7037660735	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p></p> <p>(Jagatijyoti Roy) Asstt. Registrar (Finance) National Institute of Technology, Agartala.</p> </div> <div style="width: 45%;"> <p></p> <p>(DR. GOVIND BHARGAVA) Registrar, NIT, Agartala.</p> </div> </div>			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p></p> </div> <div style="width: 45%;"> <p></p> <p>(Dr. Gopal Mukherjee) Director National Institute of Technology Agartala</p> </div> </div>			

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2017

SCHEDULE 2- DESIGNATED / EARMARKED FUNDS	FUND- WISE BRAKE UP		TOTALS
	Current Year 2016-2017	Previous Year	
a) Opening Balance of the Funds	75916712	0	75916712
b) Additions to the Funds:			
I) Donations / Grants From AICTE			
Fund for Capital Assets(tr to Balance Sheet)	896488776	7502777696	8399266472
Less: Tr. To Corpus/Capital Fund	613468302	7242875359	7856343661
Net Fund for Capital Assets(tr to Balance Sheet)	28,30,20,474	259902337	542922811
Fund for Revenue Purpose(tr to Income & Expenditure A/C)	17511224	500436	18011660
II) Income from Investments made on account of funds			0
III) Other additions (specify nature)			0
a) Fund from DHE, Govt of Tripura(DONER Project)	0	112637000	112637000
b) Bank Interest(S.B. A/C)(Forming part of Sch.12)	8173919	68104468	76278387
IV) Others Income	1217	12551056	12552273
V) Advance Received back from Parties	0	0	0
VI) Fund for Virtual Class Room	0	1195524	1195524
VII) Grant from NMEICT	0	448873	448873
TOTAL (a+b)	384623546	455339694	839963240
c) Utilisation / Expenditure towards objectives of funds			
I) Capital Expenditure			
-Fixed Assets			
Vehicle		1686081	1686081
Electric Instalations		33894911	33894911
Hostel Building, quarters etc		24896321	24896321
Const. of Ladies Toilets		115284	115284
Furniture & Fittings	39868474	115429571	155298045
Equipment & Machinery-Grass Cutter		40000	40000
Computer & Accessories		77390038	77390038
Plant & Machinery		385000	385000
Generator		51000	51000
Machinery & Equipments-Air Conditioner		4961678	4961678
Equipment & Machinery	10893991	651300054	662194045
EPBX Machine		409937	409937
Books & Journals		3032073	3032073
Const of Workshop	(14718211)	14718211	0
Const of Boundary Wall	(20130033)	20130033	0
Type II & III Quarters		32978525	32978525
Boundary Wall	20130033	46286913	66416946
Admn Building & Class Room		18621297	18621297
Const. of Auditorium Buildings	(2,31,51,901)	23151901	0

(Jagajyoti Roy)
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(DR. SUVIND BHARGAVA)
 Registrar,
 NIT Agartala.



(Dr. Gopal Mugeraya)
 Director
 National Institute of Technology,
 Agartala.

Academic, Library Building	136098725	136098725
Networking(Equipments)	63103243	63103243
Sports Equipments	441196	441196
Workshop	8862268	8862268
Boys & Girls Hostel	1264545737	1264545737
Internal Road	192830778	192830778
33 KV Sub Station	40800000	40800000
Main Gate & Auxilary Gate	8105457	8105457
Basket Ball	785976	785976
Central Stores	8614183	8614183
Housing & Guest House	0	0
School of Management	609580501	609580501
Admn. Block & Seminar Hall	397632958	397632958
Watch Tower & Security Barrack	473117263	473117263
Auditorium Building	5698969	5698969
Iron Removal Plant	23151901	23151901
500KVA Sub-Station	550000	550000
Central School	5868452	5868452
Computer Center	361054872	361054872
Workshop, Lab cum canteen	372575151	372575151
Const of Internal Road	444800000	444800000
Const of Main Gate & Sub Gate	1532593	1532593
Const of Basket Ball Cort	(1801227)	(1801227)
Const of Watch Tower & Security Barrack	(429760)	(429760)
Const of Market Complex	(5698969)	(5698969)
Const of School of Management	649908	649908
Const of Sewerage Treatment Plant (STP)	(39,31,79,862)	(39,31,79,862)
Const of Sports Complex	64765302	64765302
Const of Central School	(33,28,54,872)	(33,28,54,872)
Const of Housing & Guest House	(55,92,18,130)	(55,92,18,130)
Const of Admn Block & Seminar Hall	(46,20,28,979)	(46,20,28,979)
Const of Central Library	9,47,983	9,47,983
Const of H4B Building	5,00,00,000	5,00,00,000
Const of 1500 Beded Boys Hostel	34,78,35,595	34,78,35,595
Const of Duplex Building	5,00,00,000	5,00,00,000
Const. of Iron Removal Plant	(5,50,000)	(5,50,000)
Const of 500KVA Substation	(58,68,452)	(58,68,452)
Const of Internal Electrification	(3,110)	(3,110)
Const. of Hostel Building	(23,06,504)	(23,06,504)
Const. of Admn Building & Class Room	(54,59,883)	(54,59,883)
Const of Multipurpose Building	(10,18,605)	(10,18,605)
Const of Security barrack	(7,78,822)	(7,78,822)
Const of Computer Centre	(37,25,75,151)	(37,25,75,151)
Const of Lab cum Canteen, Workshop & Academic Building	(44,48,00,000)	(44,48,00,000)
(Jacativoti Rov)		

(Jagajyoti Roy)
Asstt. Registrar (Finance)
National Institute of Technology, Agartala.

Const of Central Plaza	12800000	10000000	22800000
TOTAL	613468302	7242875359	7856343661
Less: Tr. to Fixed Assets (Schedule 4)	613468302	7242875359	7856343661
TOTAL (2i)	0	0	0
Others	46300000	4558769456	4605069456
Advance to Parties(Schedule 2A)	141000000	4234497155	4375497155
Less: Adjustment Tr to Fixed Assets	(9,47,00,000)	324272301	229572301
Security Deposit to TSECL	0	5100	5100
TOTAL (2H)	(9,47,00,000)	324277401	229577401
II) Revenue Expenditure	2550302	0	2550302
-Other Administrative Expenses.	1374	436	1810
Misc. Expenses	250000	500000	750000
Bank Charges	13271006		13271006
NIT Transit House-Delhi	1119096		1119096
Repair & Maintenance-Building	230912		230912
Repair & Maintenance-Electrical	88534		88534
Repair & Maintenance-Internal Road			
Repair & Maintenance			
TOTAL (2H)	17511224	500436	3302112
GRNAD TOTAL (2i+2H+2Hii)	(7,71,88,776)	324777837	232879513
Un-Spent Grant(Plan Fund)	461812322	75916712	

NOTE: Rs.1,75,11,224/- spent for revenue purpose which could not be capitalised. The said amount of Fund has been transferred to Income and Expenditure Account as Plan Fund-Revenue

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(DR. GOVIND BHARGAVA)
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(Dr. Gopal Mugeraya)
Director
National Institute of Technology,
Agartala



FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA
SCHEDULES FORMING PART OF SCHEDULE 2 AS AT 31.03.2017

SCHEDULE 2 A- DETAILS OF ADVANCE TO PARTIES	Current Year	Previous Year	Adjustment	TOTAL
	2016-2017 (1)	2015-2016 (2)	tr to Fixed Assets (3)	(1+2-3)
Advance to:				
B.S.N.L.(Call User Group-CUG)		172764		172764
P.H.E(Iron Removal Plant)		1560100		1560100
Tripura Housing Board(Academic Building, Library)		7640420		7640420
DWS Deptt (Water Supply)		2695300		2695300
EPIL(Const of Workshop)		10200000		10200000
CPWD	46300000	161484092	141000000	66784092
Bridge & Roof Co.(Const of Central Computer Centre & CSE Deptt)		136519625		136519625
R.D. Deptt (Const of Market Complex)		4000000		4000000
TOTAL	46300000	324272301	141000000	229572301

(Signature)
(Jagatiyoti Roy)
 Asstt. Registrar (Finance)
 National Institute of Technology, Agartala

(Signature)
(DR. GOVIND BHAKGAVA)
 Registrar,
 NIT, Agartala.

(Signature)
(Dr. Gopal Mugeraya)
 Director
 National Institute of Technology
 Agartala



FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2017

SCHEDULE 3- CURRENT LIABILITIES AND PROVISIONS		(Amount - Rs.)	
ACURRENT LIABILITIES	Current Year 2016-2017	Previous Year 2015-2016	
1) Acceptances	0		
2) Sundry Creditors			
For Plan Fund	1675461	1675461	
For Non-Plan Fund	4702367	12415203	
Outstanding Liabilities:			
a) Repair & Maintenance-Computer	602836	0	
b) Fuel Charges	58468	0	
c) Internal Audit Fees	34500	0	
d) Salaries & Wages	24655050	21876653	
e) Electricity & Power	2372197	2724145	
f) Children Edu Allowance	0	1229677	
TOTAL (3A)	34100879	39921139	
PROVISION:			
a) Statutory Audit Fees-AG	300000	200000	
b) CCB, CCMT & Other Fees	8285032	5759521	
c) Counselling Fees-Payable to Students	100000	100000	
TOTAL (3B)	8685032	6059521	
3) Advances Received	0	0	
4) Interest accrued but not due on:	0	0	
a) Secured Loans/ borrowings.	0	0	
b) Unsecured Loans/ borrowings.	35000000	0	
TOTAL (3C)	35000000	0	
5) Statutory Liabilities:			
a) Overdue			
b) Others			
Project Fund	6431127	2916193	
New Pension Scheme-Tier-I Fund	63955564	63969774	
Retirement Benefit Fund	100403769	106242521	
Student Welfare Fund	1234956	1537670	
Staff Development Fund	120379	120379	
Institute Development Fund	74807031	69030918	
EMD & Security Deposit	24374651	31649573	
Infrastructural Development Fund	8618237	8536882	

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 National Institute of Technology, Agartala.

(Dr. Gopal Narayan)
 Registrar,
 NIT, Agartala.



Sponsored Project Fund	97695303	101895237	
Staff Welfare Fund	89293	84172	
Departmental Promotional Fund(Civil)	2302901	2357249	
NSS Unit	43195	21754	
Staff Benefit Trust	152532	632390	
Director's Relief Fund	363513	345914	
School of Continuing Education	35752	34021	
Guest House Fund	3468874	2402892	
NIT Transit House Fund	299287	284797	
TEQIP Fund	12862697	9561800	
NSS Unit Prog.			
Renewable Energy Club(TREDA)	13182	13182	
Stipend Payable to Students(Forming Part of Schedule 13A)	0	0	
Fund from ST Welfare Deptt(Books)	821737	395090	
Fund from SC Welfare Deptt(Books)	817500	817500	
Fund for Rubber Processing	27817	27817	
Fund for Virtual Class Room (Plan Fund)	156250	156250	
	1195524	1195524	
TOTAL (3D)	400291071	404229499	
6) Other current Liabilities			
i) Library Caution Money			
Opening Balance	23553548	22037500	
Add: This year	4626000	4748000	
	28179548	26785500	
Less: Payment this year	7654199	3231952	
TOTAL (3E)	20525349	23553548	
ii) Loan from DHE(Staff Salaries)	5629954	5629954	
iii) Earnest Money Deposit	114616	114616	
iv) Other Income -Plan Fund	0	12551056	
Govt. Grant-DoNER Project	0	112637000	
TOTAL (3F)	5744570	130932626	
TOTAL (I)	504346901	604696333	
B. PROVISIONS			
1) For taxation	0	0	
2) Gratuity	0	0	
3) Superannuation / pension	0	0	
4) Accumulated Leave Encashment	0	0	
5) Trade Warranties / Claims	0	0	
6) Others (Specify)	0	0	
TOTAL (II)	0	0	
TOTAL (I+II)	504346901	604696333	



(Dr. Gopinath Agartala)
Registrar,
NIT, Agartala.

(Jugajyoti Roy)
Asstt. Registrar (Finance)
National Institute of Technology, Agartala.

(Jagatjyóti Roy)
Asstt. Registrar (Finance)
National Institute of Technology, Agartala.

DR. GOVIND BHARGAVA)
Registrar,
NIT Agartala

(Dr. Gopal Mugeray,
Director
National Institute of Technol.

NON-PLAN FUND											
FURNITURE & FIXTURES	7.5%	1261828	86795	1348623	270573	101146	108835	480554	868069	991255	
COMPUTER/PERIPHERALS	20%	1584825	307100	1891925	1444501	80858	48167	1573526	318399	140324	
ELECTRIC INSTALLATIONS	5%	48894752	7097163	55991915	12201091	2625139	3192677	18018907	37973008	36693661	
EPBX Machine	5%	421438		421438	298393	295	122603	421291	147	123045	
Water Purifier	5%	126406		126406	73623	5478	26476	105577	20829	52783	
Fax Machine	5%	9000		9000	6166	0	2834	9000	0	2834	
INTERNET / V.SET	5%	123291		123291	53358	6165	8292	67815	55476	69933	
Hostel building, quarters etc	2%	19500000		19500000	5798812	390000	1856188	8045000	11455000	13701188	
Sports Goods & Equipments	5%	1609509		1609509	606775	80477	274383	961635	647874	1002734	
Machinery & Equipments	5%	9560774	259964	9820738	3415229	488554	1178478	5082261	4738477	6145545	
Office Equipments	7.5%	692432	15000	707432	247621	52495	73118	373234	334198	444811	
Musical Instruments	7.5%	125271	40500	165771	59817	10915	22525	93257	72514	65454	
Medical Equipments	5%	38749		38749	22880	1937	10054	34871	3878	15869	
Podium	7.5%	34000		34000	14918	2550	5482	22950	11050	19082	
Library Books	10%	17761577		17761577	9683658	1086766	2933486	13703910	4057667	8077919	
Type IV Quarters(Buildings)	2%	34380269		34380269	6549607	687605	1943290	9180502	25199767	27830662	
Networking (Equipments)	7.5%	2242620		2242620	790982	168197	218198	1177377	1065243	1451638	
Auditorium Building	2%	14838699		14838699	7731215	296774	(27,48,675)	5279314	9559385	7107484	
Boundary Wall	2%	251005		251005	50214	5020	10028	65262	185743	200791	
Workshop	2%	0	387633	387633	0	3876		3876	383757	0	
TOTAL (ii)		153456445	8194155	161650600	49319433	6094247	9286439	64700119	96950481	104137012	
TOTAL (i + ii)		2889122691	2790065918	50362371	463566320	195485121	136949555	796000996	4832825242	2425556371	
INTANGIBLE ASSETS											
NON-PLAN FUND											
Computer Software											
Books & Journals	40%	159233515		159233515	147385543	4251806	6859059	158496408	737107	11847972	
Patents											
TOTAL		159233515	0	159233515	147385543	4251806	6859059	158496408	737107	11847972	
CAPITAL WORK-IN-PROGRESS											
PLAN FUND											
		Cost/valuation at beginning of the year	Additions during the year	Deductions during the year	Cost/valuation at the year-end	As at the beginning of the year	On Additions during the year	On deductions during the year	Total up to the year-end	As at the Current year-end	As at the Previous year-end
Const. of Workshop		23580479			23580479	8862268	14718211		23580479	0	14718211
Const. of Boundary Wall		65421346			65421346	45291313	20130033		65421346	0	20130033
Const. of Boys & Girls Hostels		1264545737			1264545737	1264545737			1264545737	0	0
Const. of Main Gate & Sub Gate		9906684			9906684	8105457	1801227		9906684	0	1801227
Const. of Basket Ball Court		1215736			1215736	785976	429760		1215736	0	429760
Const. of Watch Tower & Security Barr		5698969			5698969	0	5698969		5698969	0	5698969
Const. of Market Complex		31943969	649908		32593877	0	397632958		32593877	0	31943969
Const. of School of Management		393179862	4453096		397632958	0	397632958		397632958	0	393179862
Const. of Internal Road		216052469	1532593		217585062	192830778			192830778	24754284	23221691
(Jagatijoti Roy)											
Asstt. Registrar (Finance)											
National Institute of Technology, Agartala.											
(Dr. Gopal Mugeraya)											
Director											
National Institute of Technology, Agartala.											

Const. of Auditorium Buildings	23151901					23151901				23151901	0	23151901
Const. of Sewerage Treatment Plant (ST)	10447478					10447478				10447478	0	10447478
Const. of Sports Complex	550451659					615216961				615216961	0	550451659
Const. of Central School	332854872					361054872				361054872	0	332854872
Const. of Housing & Guest House	559218130					559218130				559218130	0	559218130
Const. of Admin Block & Seminar Hall	462028979					473117263				473117263	0	462028979
Const. of Central Library	286624924					287572907				287572907	0	286624924
Const. of Central Stores	7774273					7774273				7774273	0	0
Const. of H4B Building	179821209					229821209				229821209	0	179821209
Const. of 1500 cap. Boys Hostel	725602710					1073438305				1073438305	0	725602710
Const. of Duplex Building	42523002					92523002				92523002	0	42523002
Const. of Iron Removal Plant	550000					550000				550000	0	550000
Const. of Dedicated Power Supply	408000000					408000000				408000000	0	408000000
Const. of 500KVA Substation	5868452					5868452				5868452	0	5868452
Const. of Internal Electrification	843020					843020				843020	0	843020
Const. of Hostel Building	2306504					2306504				2306504	0	2306504
Const. of Admin Building & Class room	5459883					5459883				5459883	0	5459883
Const. of Multipurpose Building	1018605					1018605				1018605	0	1018605
Const. of Security Barrack	778822					778822				778822	0	778822
Const. of Computer Centre	372575151					372575151				372575151	0	372575151
Const. of Lab cum Canteen, workshop	444800000					444800000				444800000	0	444800000
Const. of Central Plaza	10000000					22800000				22800000	0	10000000
TOTAL (I)	6077044825					6649317586				4260149563	2389168023	4507209113
NON-PLAN FUND												
Const. of Market Complex	43516120					43516120				43516120	0	43516120
Const. of Admin. Building	560651					560651				560651	0	560651
Const. of Workshop	387633					387633				387633	0	387633
Const. of Electrification	6873076					6873076				6873076	0	6873076
Const. of Security Barrack	1252560					1252560				1252560	0	1252560
TOTAL (II)	52590040					52590040				7260709	45329331	52590040
TOTAL (I + II)	6129634865					6701907626				4267410272	2434497354	4559799153
GRAND TOTAL	9177991071					50362371				5221907676	7268059703	6997203496
To be given as to cost of assets on hire purchase basis included above)												

(Jagatiyoti Roy)
Asstt. Registrar (Finance)
National Institute of Technology, Agartala.



(DR. GOVIND BHARGAVA)
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NIT, Agartala.

(Dr. Gopal Mugeraya)
Director
National Institute of Technology
Agartala

FORM OF FINANCIAL STATEMENTS (NON- PROFIT ORGANISATIONS)
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2017

	(Amount - Rs.)	
	Current Year 2016-2017	Previous Year 2015-2016
SCHEDULE 5- INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS:		
1) In Govt securities	0	0
2) Other approved Securities	0	0
3) Shares	0	0
4) Deventures & Bonds	0	0
5) Subsidiaries & Joint Ventures	0	0
6) Others (to be specified)	0	0
TOTAL:	0	0

	(Amount - Rs.)	
	Current Year 2016-2017	Previous Year 2015-2016
SCHEDULE 6- INVESTMENTS - OTHERS		
1) In Govt securities		
a) F.D. with Canara Bank, Agartala Br.	0	0
b) F.D. with S.B.I., NIT Agartala Br.	0	0
2) Other approved Securities		
3) Shares		
4) Deventures & Bonds		
5) Subsidiaries & Joint Ventures		
6) Others (to be specified)		
TOTAL:	0	0

[Signature]
Dr. Gopal Mugeraya
 Director
 National Institute of Technology
 Agartala

[Signature]
(DR. GOVIND BHARGAVA)
 Registrar,
 NIT, Agartala.



[Signature]
(Jagatiyoti Roy)
 Asstt. Registrar (Finance)
 National Institute of Technology, Agartala.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2017			
SCHEDULE 7 CURRENT ASSETS	Current Year 2016-2017	Previous Year 2015-2016	
Current Assets:			
1) Inventories:			
a) Stores and Spares			
Stock in Transit			
NON-PLAN FUND			
PLAN FUND			
Machinery & Equipments	0		0
b) Loose Tools			
c) Stock in Trade			
Finish Goods			
Work in progress			
Raw materials			
2) Sundry Debtors:			
a) Debts Outstanding for a period exceeding six months			
b) Others			
Security Deposit with TSECL	5100		5100
3) Cash balance in hand (including cheques / Drafts and Imprest			
Closing Cash Balance- Non Plan	888136	272414	
Closing Cash Balance- Plan	0	0	272414
4) Bank Balances:			
a) With Scheduled Banks			
- On Savings Account			
Canara Bank- Non Plan A/c No- 876	448955	448955	
- On Savings Accounts			
SBI, NITA Br.- Non Plan(A/c-30369892838)	20589569	21933333	
SBI, NITA Br.- Plan(A/c-30358199684)	406943102	119477649	
Canara Bank, Agt Br.- Plan (A/c-4121101001663)	101000000	19541	
SBI, NITA Br.- N. P. S. Fund(A/c-30471674447)	79024	93234	



(Jagatiyoti Roy)
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(DR. GOVIND BHARGAVA)
Registrar,
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(Dr. Gopal Mugeraya)
Director
National Institute of Technology
Agartala

SBI, NITA Br.-Project Fund(A/c-30533908751)	6431127		2916193	
SBI, NITA Br.-R. B. Fund(A/c-30693303036)	8212175		20142229	
SBI, NITA Br.-Student Welfare Fund(A/c-30534089717)	1234956		1537670	
SBI, NITA Br.-Inst. Dev. Fund(A/c-30534091012)	4696391		3645228	
SBI, NITA Br.-EMD & Security Deposit(A/c-30936141729)	4788591		13271183	
TGB, NITA Br.-Inf. Dev Fund(A/c-8026010030064)	8322233		767724	
SBI, NITA Br.-SDP Fund(A/c-30773081908)	10675583		21374858	
SBI, NITA Br.-Staff Welfare Fund(A/c-30534092027)	89293		84172	
SBI, NITA Br.-DPF(Civil)(A/c-30534090278)	2302901		2357249	
SBI, NITA Br.-NSS Unit(A/c-30786417404)	43195		21754	
SBI, NITA Br.-Staff Benefit Trust(A/c-31509918149)	152532		632390	
SBI, NITA Br.-Director's Relief Fund(A/c-31536875510)	363513		345914	
SBI, NITA Br.-School of Cont. Edu.(A/c-30939795485)	35752		34021	
SBI, NITA Br.-Guest House Fund(A/c-31664487420)	3468874		2402892	
SBI, NITA Br.-NIT Transit House Fund(A/c-31092166195)	299287		284797	
SBI, NITA Br.-TEQIP Fund(A/c-32067844633)	12862697	585549750	9561800	221352786
.- On Deposit Account(Including Margine Money)				
Fixed Deposit with SBI Agt Br.-General A/c	3730800		3283715	
Fixed Deposit with Canara Bank, Agt. Br.-General A/c	26506381		26506381	
Fixed Deposit with SBI Agt Br.-NPS Fund	63876540		63876540	
Fixed Deposit with SBI Agt Br.-RBF Fund	92191594		86100292	
Fixed Deposit with TGB NITA Br.-Inf. Dev Fund	7786004		7769158	
Fixed Deposit with TGB NITA Br.-SDP Fund	87019720		80520379	
Fixed Deposit with SBI Agt Br.-Moutoshi Kar Memorial	30000		30000	
Fixed Deposit with SBI Agt Br.-EMD & Security Deposit	19586060		18378390	
Fixed Deposit with TGB NITA Br.-Inst. Dev. Fund	70110640	370837739	65385690	351850545
b) With Non Sheded banks				
.- On Current Account				
.- On Deposit Account				
.- On Savings Accounts				
5) Post office Savings Accounts:				
TOTAL		957280725		573480845



(Jagatjyoti Roy)
Asstt. Registrar (Finance)
National Institute of Technology, Agartala.

(DR. GOVIND BHARGAVA)
Registrar,
NIT, Agartala.

(Dr. Gopal Mugeraya)
Director
National Institute of Technology
Agartala.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA

SCHEDULE 7A: DETAILS OF FIXED DEPOSIT ACCOUNTS

Sl. No.	Date of Deposit	Certificate / Account No	Amount(Rs)	Maturity date	Maturity Value(Rs)	Name of Bank
i) General Accounts						
1	31.03.2017	30268531331	3681092	30.05.2018	3941735	SBI Agt Br.
2	31.03.2017	30772128735	49708	30.05.2018	53228	SBI Agt Br.
3	15.03.2016	2348401000863/5	8570697	15.03.2018	9992819	Canara Bank, Agt Br
3	26.03.2016	3248401000647/1	9568001	26.03.2018	11155603	Canara Bank, Agt Br
4	26.03.2016	3248401000648/1	8367683	26.03.2018	9756118	Canara Bank, Agt Br
TOTAL			30237181		34899503	
ii) Retirement Benefit Fund						
1	02.04.2014	30359168928	1956711	02.04.2017	2496068	SBI, NITA Br
2	09.06.2016	503	3909275	08.06.2017	4221163	TGB NITA Br.
3	09.06.2016	504	3909274	08.06.2017	4221162	TGB NITA Br.
4	09.06.2016	505	3127417	08.06.2017	3376927	TGB NITA Br.
5	09.06.2016	506	2345565	08.06.2017	2532698	TGB NITA Br.
6	09.06.2016	507	1563709	08.06.2017	1688464	TGB NITA Br.
7	09.06.2016	508	781870	08.06.2017	844249	TGB NITA Br.
8	06.02.2017	33642380099	3264345	06.02.2018	3471065	SBI, NITA Br.
9	06.02.2017	33642380191	1958606	06.02.2018	2082637	SBI, NITA Br.
10	06.02.2017	33642380351	1958606	06.02.2018	2082637	SBI, NITA Br.
11	06.02.2017	33642380500	1958606	06.02.2018	2082637	SBI, NITA Br.
12	06.02.2017	33642380634	1958606	06.02.2018	2082637	SBI, NITA Br.
13	06.02.2017	33642380736	1958606	06.02.2018	2082637	SBI, NITA Br.
14	06.02.2017	33642380872	1958606	06.02.2018	2082637	SBI, NITA Br.
15	06.02.2017	33642381004	1958606	06.02.2018	2082637	SBI, NITA Br.
16	06.02.2017	33642379708	1958606	06.02.2018	2082637	SBI, NITA Br.
17	06.02.2017	33642379822	1958606	06.02.2018	2082637	SBI, NITA Br.
18	06.02.2017	33642379866	1958606	06.02.2018	2082637	SBI, NITA Br.
19	06.02.2017	33642379968	1958606	06.02.2018	2082637	SBI, NITA Br.
20	12.03.2017	34783448095	1159306	12.03.2018	1232761	SBI NITA Br.
21	12.03.2017	34783447976	1159306	12.03.2018	1232761	SBI NITA Br.
22	12.03.2017	34788447885	1159306	12.03.2018	1232761	SBI NITA Br.
23	12.03.2017	34783447772	1159306	12.03.2018	1232761	SBI NITA Br.
24	12.03.2017	34783447727	1159306	12.03.2018	1232761	SBI NITA Br.
25	12.03.2017	34783447705	1159306	12.03.2018	1232761	SBI NITA Br.
26	12.03.2017	34783447568	1159306	12.03.2018	1232761	SBI NITA Br.
27	12.03.2017	34783447477	1159306	12.03.2018	1232761	SBI NITA Br.
28	12.03.2017	34783447400	1159306	12.03.2018	1232761	SBI NITA Br.
29	12.03.2017	34783447295	1159306	12.03.2018	1232761	SBI NITA Br.
30	25.02.2017	8026142103587	588377	25.02.2018	632768	TGB NITA Br.

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31	31.03.2017	35665978111	5372475	31.03.2018	5712881	SBI NITA Br.
32	31.03.2017	35665977821	5372475	31.03.2018	5712881	SBI NITA Br.
33	31.03.2017	35665977355	5372475	31.03.2018	5712881	SBI NITA Br.
34	31.03.2017	35665976930	5372475	31.03.2018	5712881	SBI NITA Br.
35	31.03.2017	35665976500	5372475	31.03.2018	5712881	SBI NITA Br.
36	31.03.2017	35665976124	5372475	31.03.2018	5712881	SBI NITA Br.
37	31.03.2017	35665975868	5372475	31.03.2017	5712881	SBI NITA Br.
		TOTAL	92191594		98711348	
iii) New Pension Scheme Fund-Tier-I						
1	02.04.2014	30359167844	2599167	26.04.2017	2599167	SBI, NITA Br.
2	16.04.2014	30452528964	396300	26.04.2017	505545	SBI, NITA Br.
3	03.09.2016	30477089620	176288	26.04.2017	188221	SBI, NITA Br.
4	17.09.2016	30494319962	748709	26.04.2017	799488	SBI, NITA Br.
5	23.10.2016	30536974539	784741	26.04.2017	835995	SBI, NITA Br.
6	17.11.2016	30572693760	333789	26.04.2017	355602	SBI, NITA Br.
7	27.01.2017	30659251769	309062	26.04.2017	329364	SBI, NITA Br.
8	27.01.2017	30659223516	309062	26.04.2017	329364	SBI, NITA Br.
9	13.02.2017	30679572359	308987	26.04.2017	329294	SBI, NITA Br.
10	26.03.2017	30723233180	308283	26.04.2017	328570	SBI, NITA Br.
11	18.04.2016	30741450409	284780	26.04.2017	306784	SBI, NITA Br.
12	25.05.2016	30727290529	309398	26.04.2017	331962	SBI, NITA Br.
13	11.06.2016	30790483174	317201	26.04.2017	340336	SBI, NITA Br.
14	22.07.2016	30833062025	319057	26.04.2017	341447	SBI, NITA Br.
15	26.08.2016	30869020196	319473	26.04.2017	341097	SBI, NITA Br.
16	16.09.2016	30894559896	317767	26.04.2017	339284	SBI, NITA Br.
17	26.10.2016	30935263512	317359	26.04.2017	338088	SBI, NITA Br.
18	12.11.2016	30954910750	314034	26.04.2017	334553	SBI, NITA Br.
19	18.12.2016	30995065723	3078647	26.04.2017	3280781	SBI, NITA Br.
20	27.01.2017	31036380751	319246	26.04.2017	340217	SBI, NITA Br.
21	06.02.2017	31048976850	534672	26.04.2017	569804	SBI, NITA Br.
22	26.03.2017	31110608821	335675	26.04.2017	357766	SBI, NITA Br.
23	28.05.2016	31149019728	332672	26.04.2017	357810	SBI, NITA Br.
24	03.06.2016	31195703339	502595	26.04.2017	539251	SBI, NITA Br.
25	15.06.2016	31211169672	339965	26.04.2017	364760	SBI, NITA Br.
26	29.07.2016	31295128285	170031	26.04.2017	181964	SBI, NITA Br.
27	20.08.2016	31345275995	858046	26.04.2017	916024	SBI, NITA Br.
28	22.09.2016	31438847121	507856	26.04.2017	542377	SBI, NITA Br.
29	21.10.2016	31473911005	508899	26.04.2017	542135	SBI, NITA Br.
30	12.11.2016	31498348868	695940	26.04.2017	741418	SBI, NITA Br.
31	09.12.2016	31531900439	1001602	26.04.2017	1067349	SBI, NITA Br.
32	18.01.2017	31590482761	702787	26.04.2017	748940	SBI, NITA Br.
33	21.02.2017	31638619142	707372	26.04.2017	753876	SBI, NITA Br.
34	24.03.2017	31683863334	704445	26.04.2017	750803	SBI, NITA Br.

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35	12.05.2016	170633439	643204	28.04.2017	691808	SBI, NITA Br.
36	12.05.2016	31744689276	694554	26.04.2017	745210	SBI, NITA Br.
37	22.07.2016	31847516759	1395669	26.04.2017	1493647	SBI, NITA Br.
38	07.09.2016	31926034223	694370	26.04.2017	741381	SBI, NITA Br.
39	21.09.2016	31950668862	670136	26.04.2017	715687	SBI, NITA Br.
40	16.11.2016	32036725156	669175	26.04.2017	712908	SBI, NITA Br.
41	16.11.2016	32036500878	699974	26.04.2017	745720	SBI, NITA Br.
42	16.12.2016	32088124959	702299	26.04.2017	748407	SBI, NITA Br.
43	20.01.2017	32150080442	408779	26.04.2017	435626	SBI, NITA Br.
44	16.02.2017	32194047063	739020	26.04.2017	787596	SBI, NITA Br.
45	22.03.2017	32249818696	712191	26.04.2017	759057	SBI, NITA Br.
46	11.04.2016	32280294988	670577	26.04.2017	721251	SBI, NITA Br.
47	11.05.2016	32327269715	678158	26.04.2017	727618	SBI, NITA Br.
48	29.06.2016	32401165700	673430	26.04.2017	783076	SBI, NITA Br.
49	19.07.2016	32435516795	864136	26.04.2017	1002105	SBI, NITA Br.
50	30.08.2016	32509160200	891205	26.04.2017	951532	SBI, NITA Br.
51	22.09.2016	32560299037	981255	26.04.2017	1124320	SBI, NITA Br.
52	12.10.2016	32599643066	954695	26.04.2017	1017025	SBI, NITA Br.
53	16.11.2016	32659511373	1016401	26.04.2017	1082827	SBI, NITA Br.
54	07.12.2016	32697478395	1018999	26.04.2017	1085620	SBI, NITA Br.
55	11.01.2017	32764700868	991980	26.04.2017	1057111	SBI, NITA Br.
56	19.02.2017	32834658624	1157923	26.04.2017	1234042	SBI, NITA Br.
57	07.03.2017	32868656275	1103999	26.04.2017	1176614	SBI, NITA Br.
58	13.04.2016	32939260002	1005654	26.04.2017	1081649	SBI, NITA Br.
59	11.05.2016	32991319180	1032833	26.04.2017	1108164	SBI, NITA Br.
60	19.07.2016	33139988769	1072885	26.04.2017	1148177	SBI, NITA Br.
61	19.07.2016	33139997241	1063433	26.04.2017	1134061	SBI, NITA Br.
62	21.08.2016	33225984529	1098899	26.04.2017	1173279	SBI, NITA Br.
63	12.09.2016	33289675550	1038646	26.04.2017	1108971	SBI, NITA Br.
64	15.10.2016	33379020737	1116294	26.04.2017	1189187	SBI, NITA Br.
65	13.11.2016	33447651803	1160033	26.04.2017	1235839	SBI, NITA Br.
66	11.12.2016	33513368081	1157229	26.04.2017	1233196	SBI, NITA Br.
67	02.01.2017	33556271054	1166630	26.04.2017	1243206	SBI, NITA Br.
68	13.02.2017	33654581837	1145489	26.04.2017	1220778	SBI, NITA Br.
69	10.03.2017	33714504141	1146712	26.04.2017	1222142	SBI, NITA Br.
70	18.04.2016	33790534221	1053732	26.04.2017	1133360	SBI, NITA Br.
71	07.05.2016	33824424555	1119317	26.04.2017	1203901	SBI, NITA Br.
72	09.06.2016	33885767374	1119317	26.04.2017	1200958	SBI, NITA Br.
73	09.07.2016	33951373023	1137900	26.04.2017	1220736	SBI, NITA Br.
74	19.08.2016	34052685763	1171785	26.04.2017	1250964	SBI, NITA Br.
75	15.09.2016	34193289361	1159761	26.04.2017	1238294	SBI, NITA Br.
76	27.10.2016	34340260470	1213630	26.04.2017	1292904	SBI, NITA Br.
77	26.11.2016	34431831658	1199455	26.04.2017	1277865	SBI, NITA Br.
78	11.12.2016	34483805683	1196523	26.04.2017	1275068	SBI, NITA Br.
79	14.01.2017	34601339743	1194347	26.04.2017	1272772	SBI, NITA Br.
		TOTAL	63876540		68335095	

(Jagatiyoti Roy)
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Director
National Institute of Technology
Agartala



iv) Sponsored Project Fund							
1	09.06.2016	459	2524676	08.06.2017	2726099	TGB NITA Br.	
2	09.06.2016	460	3366562	08.06.2017	3635152	TGB NITA Br.	
3	09.06.2016	461	5049845	08.06.2017	5452730	TGB NITA Br.	
4	09.06.2016	462	4208203	08.06.2017	4543940	TGB NITA Br.	
5	09.06.2016	463	1683280	08.06.2017	1817575	TGB NITA Br.	
6	09.06.2016	476	2525308	08.06.2017	2726781	TGB NITA Br.	
7	09.06.2016	477	2356954	08.06.2017	2544996	TGB NITA Br.	
8	09.06.2016	478	2186600	08.06.2017	2363210	TGB NITA Br.	
9	09.06.2016	479	2020246	08.06.2017	2181424	TGB NITA Br.	
10	09.06.2016	480	1851889	08.06.2017	1999636	TGB NITA Br.	
11	09.06.2016	481	1851890	08.06.2017	1999637	TGB NITA Br.	
12	09.06.2016	482	1851890	08.06.2017	1999637	TGB NITA Br.	
13	09.06.2016	483	1851890	08.06.2017	1999637	TGB NITA Br.	
14	09.06.2016	484	1851890	08.06.2017	1999637	TGB NITA Br.	
15	09.06.2016	485	1851890	08.06.2017	1999637	TGB NITA Br.	
16	09.06.2016	486	1851890	08.06.2017	1999637	TGB NITA Br.	
17	09.06.2016	487	1346831	08.06.2017	1817853	TGB NITA Br.	
18	09.06.2016	488	1010142	08.06.2017	1454283	TGB NITA Br.	
19	09.06.2016	489	663428	08.06.2017	1090733	TGB NITA Br.	
20	09.06.2016	490	336726	08.06.2017	727155	TGB NITA Br.	
21	09.06.2016	8026142100058	7040395	08.06.2017	363591	TGB NITA Br.	
22	09.06.2016	8026142100067	7143168	08.06.2017	7602089	TGB NITA Br.	
23	09.06.2016	8026142100076	7143171	08.06.2017	7713062	TGB NITA Br.	
24	09.06.2016	8026142100085	7143173	08.06.2017	7713065	TGB NITA Br.	
25	09.06.2016	8026142100094	5714536	08.06.2017	7713067	TGB NITA Br.	
26	09.06.2016	8026142100100	4285904	08.06.2017	6170451	TGB NITA Br.	
27	09.06.2016	8026142100119	2857267	08.06.2017	4627840	TGB NITA Br.	
28	09.06.2016	8026142100128	1428632	08.06.2017	3085224	TGB NITA Br.	
29	25.02.2017	8026142103578	2187796	25.02.2018	1542612	TGB NITA Br.	
TOTAL			87019720		93963611		
v) Infrastructural Development Fund							
1	31.03.2015	466	1506539	08.06.2020	2294150	TGB NITA Br.	
2	31.03.2015	467	1506539	08.06.2020	2294150	TGB NITA Br.	
3	31.03.2015	468	753269	08.06.2020	1147074	TGB NITA Br.	
4	31.03.2015	469	753269	08.06.2020	1147074	TGB NITA Br.	
5	31.03.2015	470	753269	08.06.2020	1147074	TGB NITA Br.	
6	31.03.2015	471	753269	08.06.2020	1147074	TGB NITA Br.	
7	31.03.2015	472	602660	08.06.2020	917728	TGB NITA Br.	
8	31.03.2015	473	452012	08.06.2020	688322	TGB NITA Br.	
9	31.03.2015	474	301342	08.06.2020	458882	TGB NITA Br.	
10	31.03.2015	475	152036	08.06.2020	231520	TGB NITA Br.	
11	25.02.2017	8026142103602	251800	25.02.2018	270824	TGB NITA Br.	
TOTAL			7786004		11743872		

(Jagadish Prasad)
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Registrar,
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Director
National Institute of Technology
Agartala



vii) Institute Development Fund

1	09.06.2016	509	4691130	08.06.2017	5065396	TGB NITA Br.
2	09.06.2016	510	3909274	08.06.2017	4221162	TGB NITA Br.
3	09.06.2016	511	3909274	08.06.2017	4221162	TGB NITA Br.
4	09.06.2016	512	3127417	08.06.2017	3376927	TGB NITA Br.
5	09.06.2016	513	2345565	08.06.2017	2532698	TGB NITA Br.
6	09.06.2016	514	1563709	08.06.2017	1688464	TGB NITA Br.
7	09.06.2016	515	781870	08.06.2017	844249	TGB NITA Br.
8	06.02.2017	33642377597	1958606	06.02.2018	2082637	SBI NITA Br.
9	06.02.2017	33642378738	1958606	06.02.2018	2082637	SBI NITA Br.
10	12.03.2017	34783371607	5796531	12.03.2018	6163812	SBI NITA Br.
11	12.03.2017	34783371562	5796531	12.03.2018	6163812	SBI NITA Br.
12	12.03.2017	34783371459	5796531	12.03.2018	6163812	SBI NITA Br.
13	12.03.2017	34783371051	5796531	12.03.2018	6163812	SBI NITA Br.
14	12.03.2017	34783369621	5796531	12.03.2018	6163812	SBI NITA Br.
15	25.02.2017	8026142103596	765109	25.02.2018	822934	TGB NITA Br.
16	31.03.2017	35665970393	5372475	31.03.2018	5712881	SBI NITA Br.
17	31.03.2017	35665969151	5372475	31.03.2018	5712881	SBI NITA Br.
18	31.03.2017	35665968884	5372475	31.03.2018	5712881	SBI NITA Br.
TOTAL			70110640		74895969	

viii) EMD & Security Deposit Fund

1	06.02.2017	33642378772	1958606	06.02.2018	2082637	SBI NITA Br.
2	06.02.2017	33642378909	1958606	06.02.2018	2082637	SBI NITA Br.
3	06.02.2017	33642378976	1958606	06.02.2018	2082637	SBI NITA Br.
4	06.02.2017	33642379038	1958606	06.02.2018	2082637	SBI NITA Br.
5	06.02.2017	33642379107	1958606	06.02.2018	2082637	SBI NITA Br.
6	06.02.2017	33642379232	1958606	06.02.2018	2082637	SBI NITA Br.
7	06.02.2017	33642379301	1958606	06.02.2018	2082637	SBI NITA Br.
8	06.02.2017	33642379436	1958606	06.02.2018	2082637	SBI NITA Br.
9	06.02.2017	33642379538	1958606	06.02.2018	2082637	SBI NITA Br.
10	06.02.2017	33642379606	1958606	06.02.2018	2082637	SBI NITA Br.
TOTAL			19586060		20826370	
GRAND TOTAL			370837739		403407601	



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National Institute of Technology, Agartala.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)		
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA		
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2017		
SCHEDULE 8 LOAN, ADVANCES & DEPOSITS	Current Year 2016-2017	Previous Year 2015-2016
1. Advance to employees: (Non-interest bearing)		
a) Salary	0	
b) Festival	0	
c) Medical Advance	0	
d) Other (to be specified)	0	
2. Long Term Advances to employees: (Interest bearing)		
a) Vehicle loan		
b) Home loan		
c) Other (to be specified)		
3) Advances and other amounts recoverable in cash or in kind or for value to be received.		
a) On Capital account.		
Advance to:		
RD Deptt(Hostel Repair & Maints)	2000000	2000000
RD Deptt(Electrification)	0	0
RD Deptt(Const of Security Barrack)	0	0
RD Deptt(Const of Market Complex)	0	0
b) Prepaid Expenses	2000000	2000000
Loan to NIMCET Fund		
c) Others	0	0
Temporary Advance to Sundry Parties		
LTC Advance to Employees	1376488	724012
4) INCOME ACCRUED	0	172300
a) On Investment - Others.		
i) Interest on Fixed Deposit-General A/c	2108031	
ii) Interest on Fixed Deposit-SDP Fund	0	253372
5) CLAIMS RECEIVABLE	2108031	0
Fund receivable from EMD A/c		253372
.- For Non Plan	0	
.- For Plan	0	1602777
		2550302
		4153079
TOTAL	5484519	7302763

(Jagatiyoti Roy)
Asstt. Registrar (Finance)
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(DR. GOVIND BHARGAVA)
Registrar,
NIT, Agartala.

(Dr. Gopal Mugersey)
Director
National Institute of Technology
Agartala.

FORM OF FINANCIAL STATEMENTS (NON- PROFIT ORGANISATIONS)		
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA		
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/ YEAR ENDED 31.03.2017		
SCHEDULE 9 - ACADEMIC RECEIPTS	Current Year	(Amount - Rs.) Previous Year
	2016-2017	2015-2016
1) Academic Collection	238529195	244218050
2) Annual Fees / Subscription		
3) Seminar / program Fees		
4) Consultancy Fees		
5) Others (Specify)-		
TOTAL	238529195	244218050
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><i>(Jagatiyoti Roy)</i> Asstt. Registrar (Finance) National Institute of Technology, Agartala.</p> </div> <div style="width: 45%; text-align: center;">  <p><i>(DR. GOVIND BHARGAVA)</i> Registrar, NIT, Agartala.</p> </div> <div style="width: 45%; text-align: right;"> <p><i>(Dr. Gopal Mugeraya)</i> Director National Institute of Technology Agartala</p> </div> </div>		

FORM OF FINANCIAL STATEMENTS (NON- PROFIT ORGANISATIONS)			
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA			
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/ YEAR ENDED 31.03.2017			
SCHEDULE 10 - GRANTS / SUBSIDIES	Current Year 2016-2017	(Amount - Rs.) Previous Year 2015-2016	
(Irrevocable Grants & Subsidies received)			
1) Central Govt.			
a) From MHRD- Non Plan	2680000000	2300000000	
b) From AICTE	0	0	
c) Central Counselling Fees-MHRD	0	0	
2) State Govt.			
3) Govt. Agencies			
4) Institution / Welfare bodies			
5) International Organisations			
6) others (Specify)			
TOTAL	2680000000	2300000000	

FORM OF FINANCIAL STATEMENTS (NON- PROFIT ORGANISATIONS)			
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA			
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/ YEAR ENDED 31.03.2017			
SCHEDULE 11 - INCOME FROM INVESTMENTS	Current Year 2016-2017	(Amount - Rs.) Previous Year 2015-2016	
1) On Term Deposits:			
a) With scheduled Banks- Non-Plan Fund			
State Bank of India, NIT Agartala Br.	0	0	
Canara Bank, Agartala Br	0	0	
b) With Non scheduled Banks			
c) With Institutions			
d) Others			
2) On Loans:			
a) Employees / Staff			
b) Others			
3) Interest on Debtors and Other Receivables			
TOTAL	0	0	

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FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)		
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA		
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/ YEAR ENDED 31.03.2017		
SCHEDULE 12 - INTEREST EARNED	Current Year 2016-2017	(Amount - Rs.) Previous Year 2015-2016
1) On Term Deposits:		
a) With scheduled Banks- Non-Plan Fund		
State Bank of India, NIT Agartala Br.	447085	0
Canara Bank, Agartala Br	1854659	2599280
b) With Non scheduled Banks		
c) With Institutions		
d) Others		
2) On Savings Accounts:		
a) With scheduled Banks		
Non-Plan Fund:		
Canara Bank, Agartala Br	0	0
State Bank of India, NIT Agartala Br.	2857840	3270319
Plan Fund:		
Canara Bank, Agartala Br	0	0
State Bank of India, NIT Agartala Br.	8173919	5291418
b) With Non scheduled Banks	0	0
c) Post office savings Accounts		
d) Others		
3) On Loans:		
a) Employees / Staff		
b) Others		
i) Intt on Mobilization Advance(NCCL)		
4) Interest on Debtors and Other Receivables	842036	9690603
TOTAL	14175539	20851620
<div style="display: flex; justify-content: space-between;"> <div> <p>(Jagatiyoti Roy)</p> <p>Asstt. Registrar (Finance)</p> <p>National Institute of Technology, Agartala.</p> </div> <div> <p>(Dr. Govind Bhargava)</p> <p>Registrar,</p> <p>NIT, Agartala.</p> </div> <div> <p>(Dr. Gopal Mugeraya)</p> <p>Director</p> <p>National Institute of Technology</p> <p>Agartala</p> </div> </div>		



FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA			
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/ YEAR ENDED 31.03.2017			
	Current Year 2016-2017	Previous Year 2015-2016	(Amount - Rs.)
SCHEDULE 13 - OTHER INCOME			
A. Income from Land & Building			
B. Sale of Institute's Publications	0		
C. Income from holding events			
D. Others (Specify)-			
a) Misc Income	(1343942)	1624459	
b) Misc. Income - Plan Fund	12552273	0	
c) Sale of Tender Form	0	0	
TOTAL	11208331	1624459	
SCHEDULE 14 - PRIOR PERIOD INCOME			
1. Academic Receipts			
2. Income from Investments	0	0	
3. Interest earned			
4. Others (Specify)-			
TOTAL	0	0	

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FORM OF FINANCIAL STATEMENTS (NON- PROFIT ORGANISATIONS)
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/ YEAR ENDED 31.03.2017

SCHEDULE 15 - STAFF PAYMENT & BENEFIT		(Amount - Rs.)	
	Current Year	Previous Year	
	2016-2017	2015-2016	
a) Salaries and Wages			
i) Regular Faculty & Staffs	158617282	147852178	
ii) Contractual Faculty & Staffs	122153474	96969677	
b) Allowances and Bonus	2430922	0	
c) Contribution to Provident fund			
d) Contribution to other funds (Specify)			
e) New Pension Scheme Fund-Tier-I			
f) Staff Welfare Expenses	7386085	6906883	
g) Expenses on Employees Retirement and Terminal benefits			
h) LTC Facility			
i) Medical Facility	3175521	2772293	
j) Children Education Allowance	203683	187435	
k) Other (Specify)	1242855	2237283	
l) Telephone Re-imbursement	157889	105259	
2) CPDA	3478428	3002396	
TOTAL	298846139	260033404	

SCHEDULE 16 - ACADEMIC EXPENSES		(Amount - Rs.)	
	Current Year	Previous Year	
	2016-2017	2015-2016	
a) Laboratory Expenses	806405	1804795	
b) Honarium to Visiting Examiner & others	4195882	2970613	
c) Expenses on Workshop	2838599		
d) Convocation Expenses	2231729	1454178	
e) Scholarship-Institute	68123563	69511564	
f) Others (specify)			
1) Contingency to PhD/M.Tech	1736850	867070	
2) Expenses for Research Affairs		277975	
TOTAL	79933028	76886195	

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FORM OF FINANCIAL STATEMENTS (NON- PROFIT ORGANISATIONS)
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SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/ YEAR ENDED 31.03.2017

	(Amount - Rs.)	
	Current Year 2016-2017	Previous Year 2015-2016
SCHEDULE 17 - ADMINISTRATIVE & GENERAL EXPENSES		
a) Electricity and Power	27727113	28600423
b) Water Charges		
c) Postage	30000	60000
d) Printing & Stationery	938466	781531
e) Travelling & Conveyance Expenses	3260288	3354004
f) Expenses on Seminar		1770605
g) Hospitality Expenses	591161	367335
h) Advertisement and publicity	1198568	2648211
i) Newspaper & Periodical	11198	21522
j) Telephone & Communication	577900	406515
k) Others (Specify)		
1) Miscellaneous Expenses	171165	100413
2) Medicine Expenses	1478010	1082075
3) Institution Membership Exp		
4) Recruitment expenses	19060	0
5) Liveries		
6) Security Services	27416976	31148866
7) Gardening Expenses	4904336	5846132
8) Sweeping & Cleaning	18263281	17099106
9) Lawyer Fees	2717605	218170
10) Networking Expenses		
11) Games, Sports & Cultural Activity	6247194	4670975
12) Internal Audit Fees	46995	28750
13) Statutory Audit Fees-A.G.	100000	100000
14) Rent to PWD-Agartala Transit House	732212	2026241
15) BOG Meeting Expenses		8500
16) Cable Charges		428491
17) Expenses for Golden Jubilee		4951288
18) Networking/Vset Expenses		
TOTAL	96431528	105719153

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FORM OF FINANCIAL STATEMENTS (NON- PROFIT ORGANISATIONS)
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/ YEAR ENDED 31.03.2017

	(Amount - Rs.)	
	Current Year 2016-2017	Previous Year 2015-2016
SCHEDULE 18 - TRANSPORTATION EXPENSES		
a) Registration, Insurance etc. for Vehicle	174976	0
b) Transportation Expenses	178884	257995
c) Vehicle Repair & Maintenance	266659	484337
d) Fuel Charges	1161942	915388
e) Others (Specify)		
TOTAL	1782461	1657720

	(Amount - Rs.)	
	Current Year 2016-2017	Previous Year 2015-2016
SCHEDULE 19 - REPAIRS & MAINTENANCE		
a) Repair & Maintenance	3182675	4888311
b) Repairs & Maints-Electricals	631945	2217137
c) Repair & Maintenance - Building	2684416	2215381
d) Repair & Maintenance - Computer & Accessories	4485406	2763908
e) Repair & Maintenance - Internal Road	443184	0
f) Others (Specify)		0
TOTAL	11427626	12084737



(Signature)
 Dr. Gopal Mugeraya
 Director
 National Institute of Technology
 Agartala

(Signature)
 (DR. GOVIND BHARGAVA)
 Registrar,
 NIT, Agartala.

(Signature)
 (Jagajyoti Roy)
 Asstt. Registrar (Finance)
 National Institute of Technology, Agartala.

FORM OF FINANCIAL STATEMENTS (NON- PROFIT ORGANISATIONS)
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/ YEAR ENDED 31.03.2017

SCHEDULE 20 - FINANCE COSTS	(Amount - Rs.)	
	Current Year 2016-2017	Previous Year 2015-2016
a) Interest on Fixed Loans	0	0
b) Interest on Other Loans	0	0
c) Bank Commission	70243	6787
d) Others (Specify)	0	0
TOTAL	70243	6787

SCHEDULE 21 - OTHER EXPENSES	(Amount - Rs.)	
	Current Year 2016-2017	Previous Year 2015-2016
a) Provision for Bad and Doughtful Debts	0	0
b) Irrecoverable Balance Written off	0	0
c) Others (Specify)	0	0
TOTAL	0	0

SCHEDULE 22 - PRIOR PERIOD EXPENSES	(Amount - Rs.)	
	Current Year 2016-2017	Previous Year 2015-2016
1. Establishment Expenses	0	0
2. Academic Expenses	0	0
3. Administrative Expenses	0	0
4. Transportation Expenses	0	0
5. Repairs & Maintenance	0	0
6. Others (Specify)		
TOTAL	0	0

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 Director
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 Agartala



SCHEDULE-23**SIGNIFICANT ACCOUNTING POLICIES****1. INTRODUCTORY:**

The National Institute of Technology, Agartala is one among the Institutions of National Importance setup under the National Institutes of Technology Act, 2007 (No.29 of 2007) and supplemented by the first Statute prepared and declared by Government of India, Ministry of HRD, New Delhi Vide Gazette of India Part II Section 3 Sub Section (i) dated 23.04.2009.

The Government of India, Ministry of HRD, New Delhi releases funds to the Institute for both Plan and Non-Plan Expenses.

The Institute has prepared the Annual Accounts 2016-17 as per the format provided by the Ministry of HRD with the approval of the Comptroller and Auditor General of India and communicated to all NITs Vide Letter No. F.29-4/2012-IPD dated 17.04.2015.

2. ACCOUNTING CONVENTION:

The Financial Statements are prepared on the basis of Historical cost Convention unless otherwise stated and on the Accrual method of Accounting.

3. REVENUE RECOGNITION:

Tuition fee payable by students is accounted for on cash basis. Interest on term deposits is accounted on actual basis. Sale of application/ tender forms and other Misc Income are accounted on cash basis.

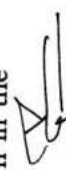
4. INVENTORY VALUATION:

The Institute is booking expenditure on spare parts, laboratory chemicals, consumables and other stores on cash basis as and when purchased and hence no closing stock for the same shown in the balance sheet.


(Jagatjyoti Roy)
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(Dr. Gopal Mugeraya)
Director
National Institute of Technology
Agartala.

5. INVESTMENT:

No Investment except Fixed Deposit was made during the year under audit. Investments are valued at cost.

6. FIXED ASSETS:

Fixed Assets like equipments, furniture etc., are stated at cost of acquisition inclusive of inward freight, duties and taxes and incidental and direct expenses related to acquisition. The cost of building is taken on the basis of Completion Report. Cost of purchase of Library books, e-books are treated as fixed assets.

7. DEPRECIATION:

Depreciation is provided on straight line Method as per rates specified in the guidelines and format of Ministry of HRD, Government of India in respect of following Assets.

(i) Building- 2%, (ii) Electrical Installation- 5%, (iii) Plant and Machinery- 5%, (iv) Lab Equipment- 8%, (v) Office Equipment- 7.5%, (vi) Computer & Accessories- 20%, (vii) Furniture & Fittings- 7.5%, (viii) Vehicle- 10%, (ix) Library Books- 10% and (x) e-Books/e-Journal- 40%. However, depreciation has been charged on pro-rata basis.

8. GOVERNMENT GRANT/SUBSIDIES:

- i) Government Capital grants for setting up Projects are treated as Capital Receipts (the said grants are shown under the Head Earmarked/Endowment Fund)
- ii) Fixed Assets acquired out of specific grants are shown at their full value of acquisition.


9. RETIREMENT BENEFIT:

Provision towards Retirement Benefits payable has been made as per accrual basis for the year 2016-17.


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Director
National Institute of Technology
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10. NEW PENSION SCHEME (NPS):

Employees' contribution to NPS along with matching contribution of the Institution has been deposited in a separate Bank Account and the NPS contributions are remitted to CRA (NSDL) on monthly basis regularly.

11. NIT Agartala is maintaining the following fund accounts separately:

Sl. No	Name of Fund	Name of Bank, Branch	Account No
1	New Pension Scheme	SBI, NIT Agartala Br.	30471674447
2	Project Fund	-do-	30533908751
3	Retirement Benefit Fund	-do-	30693303036
4	Student Welfare Fund	-do-	30534089717
5	Institute Development Fund	-do-	30534091012
6	EMD & Security Fund	-do-	30936141729
7	Sponsored Project Fund	-do-	30773081908
8	Staff Welfare Fund	-do-	30534092027
9	Departmental Promotional Fund(Civil)	-do-	30534090278
10	NSS Fund	-do-	30786417404
11	Staff Benefit Trust Fund	-do-	31509918149
12	Directors' Relief Fund	-do-	31536875510
13	School of Continuation Education	-do-	30939795485
14	Guest House Fund	-do-	31664487420
15	TEQIP Fund	-do-	32067844633
16	NIT Transit House Fund	SBI, Kunjaban Br	31092166195
17	Infrastructure Development Fund	TGB, NIT Agartala Br	8026010030064

12. CAPITAL COMMITMENTS:

All major construction works are being executed by CPWD functioning in the campus on deposit work basis. Certain construction works are also executed through process of tender.

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SCHEDULE -24 CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS**1. CONTINGENT LIABILITIES:**

NIL

2. CURRENT ASSETS, LOANS AND ADVANCES:

In the opinion of the Management, the current assets, loans and advances have a value on realization in the ordinary courses of business, equal at least to the aggregate amount shown in the Balance Sheet.

3. TAXATION:

The Income of the Institute is exempted from Income tax under section 10(23C) of the Income Tax Act 1961. Hence no provision has been made for Income tax.

4. FOREIGN CURRENCY TRANSACTION:

Expenditure is recorded at the prevailing rate on the date of the transaction based on demands raised by State Bank of India, Agartala Branch.

5. Corresponding Figures for the previous year have been regrouped/rearranged wherever necessary.

6. Schedules 1 to 23 are annexed to and form and integral part of the Balance Sheet as at 31.03.2017 and Income and Expenditure and Receipts and Payment Accounts for the year ended on that date.

(Jagdish Choudhary)
Joint Registrar (Finance)
National Institute of Technology
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FORM OF FINANCIAL STATEMENTS (NON- PROFIT ORGANISATIONS)
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA
CASH FLOW STATEMENT FOR THE PERIOD/ YEAR ENDED 31.03.2017

Particulars	Current Year 2016-17	Previous Year 2015-16
A. CASH FLOW FROM OPERATING ACTIVITIES		
Susplus/(deficit) for the year	(35,06,38,501)	(8,43,98,113)
Less: Expenditure on other Fund (NMEICT)	-	4,48,873
Adjustments for the Non-operating Incomes/Expenses		
Depreciation	34,35,45,541	7,81,30,809
Write offs	-	-
Interest expenses on Loans	-	-
(Increase)/Decrease in Current Asstes	9,42,19,824	(67,16,177)
Increase/(Decrease) in Current Liabilities	3,80,52,158	(6,21,35,405)
Net Cash Flow from Operating Activities	13,22,71,982	(4,96,702)
B. CASH FLOW FROM INVESTING ACTIVITIES		
(Purchase)/Sale of Fixed Asstes	12,51,79,022	(6,93,48,284)
(Purchase)/Sale of Fixed Investments	(63,35,02,843)	(66,33,02,064)
Interest received	(4,47,085)	-
Net Cash Flow from Investing Activities	(63,39,49,928)	(66,33,02,064)
C. CASH FLOW FROM FINANCING ACTIVITIES		
Additions to General Fund during the year	(63,39,49,928)	(66,33,02,064)
Grants/funds in nature of founders/promoters contribution	-	-
Endowment fund(principal sum)	89,64,88,776	64,94,59,564
Interest paid on Loans	89,64,88,776	64,94,59,564
Net Increase in Cash Equivalents (A+B+C)	38,77,17,870	(8,31,90,784)
Cash and cash Equivelants as at the beginning of F.Y.	14,21,51,892	22,53,42,676
Cash and Cash Equivelant at the end of the period	52,98,69,762	14,21,51,892

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