



राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला

NATIONAL INSTITUTE OF TECHNOLOGY AGARTALA

An Institute of National Importance



ANNUAL REPORT 2014-2015



NATIONAL INSTITUTE OF TECHNOLOGY AGARTALA

Barjala, Agartala, Tripura, India - 799046.

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

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2014-2015**

(AUTHENTICATED)

MINISTER OF STATE IN THE
MINISTRY OF HUMAN RESOURCE DEVELOPMENT

NEW DELHI
DATED:



NATIONAL INSTITUTE OF TECHNOLOGY AGARTALA

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ANNUAL REPORT

2014 – 2015



NATIONAL INSTITUTE OF TECHNOLOGY AGARTALA

1.0 INTRODUCTION

National Institute of Technology Agartala, a Centrally Funded Institution is one of the thirty National Level Technical Institutes in India. The Institute's vision is "to help to improve the economic development of the country particularly of the Institute 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 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 Training and Placement Cell 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 Boys' 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 new academic session. The students take active part in all sorts of activities held in cultural 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 Cultural fest called 'Moksha' and the Annual Techno-Management Fest 'AAYAM' that witness spontaneous participation of students. And different Clubs such as Robotic Club, Soft Skill 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' Hostels 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 Academic Blocks and Administrative Blocks have already inaugurated and will be operational soon.
- 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 this goal has already attained.
- Creation of all infrastructural and other facilities such as a boundary wall, 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) 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 number of seats have been increased from 757 to 867 for the academic session 2013-2014. 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 a certain interval & 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.
- (8) Supply, Installation, Testing & Commissioning of 15 (fifteen) lifts in Administrative Building 1 & 2, School of Management, International Guest House, Academic Block (ECE Deptt. & DoNER), Central Library and Director's Bungalow 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 the 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 6⁰ C in the winter season to a maximum of 35⁰ 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 and is aided with picturesque surroundings.

A well-equipped Medical Unit with three 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 has 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 Placements

The Institute has a Training and Placement Cell under Training and Placement Officer with supporting staff. The Training and Placement Cell 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.

2.5 Games and Sports

The students actively participate in all co-curricular activities like Games and Sports, Debate, Cultural-Functions, Essay Competition, Drama Competition, 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 students belonging to the 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 has 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)

Sl. No.	Name and Designation of the Members
1	Prof. P. N. Singh, Chairman of the BOG, NIT Agartala, Former Director, NIT Karnataka, Surathkal (Karnataka).
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	Shri K. Ambuly, Secretary to the Govt. of Tripura, Dept. of Higher Education, Tripura
6	Prof. Nitindra Nath Som, Former Professor of Civil Engineering & Dean, Faculty of Engineering & Technology, Jadavpur University, Kolkata, West Bengal.
7	Prof. A. Srinivasan, Dean of Faculty Affairs, IIT Guwahati, Assam.
8	Prof. (Mrs.) Uma Bhattacharya, Dept. of Computer Science and Technology, BESU, Shibpur.
9	Prof. Sekhar Datta, Professor, Tripura Institute of Technology, Narsingarh, Tripura.
10	Dr. R. P. Sharma, Professor, Civil Engineering Dept., NIT Agartala.
11	Shri John Debbarma, Assistant Professor, Department of Mechanical Engineering, NIT, Agartala.
12	Mr. Sumanta Chakrabarti, Registrar (in-charge) is the Secretary of BOG.

Members of the Finance Committee

Sl. No.	Name and Designation of the Members
1	Prof. P. N. Singh, Chairman of the BOG, NIT Agartala, Former Director, NIT Karnataka, Surathkal (Karnataka).

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	Prof. Nitindra Nath Som, Former Professor of Civil Engineering & Dean, Faculty of Engineering & Technology, Jadavpur University, Kolkata, West Bengal.
6	Shri John Debbarma, Assistant Professor, Department of Mechanical Engineering, NIT, Agartala.
7	Mr. Sumanta Chakrabarti, Registrar (in-charge) is the Member Secretary of FC.

Members of the Building and Works Committee

Sl. No.	Name and Designation of the Members
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	Dr. R. P. Sharma, Professor, Civil Engineering Dept., NIT Agartala.
7	Mr. Sumanta Chakrabarti, Registrar (in-charge) is the Member Secretary of BWC.

Members of the Senate meeting

Sl. No.	Name and Designation of the Members
1	Prof. (Dr.) Gopal Mugeraya, Director, NIT Agartala (Tripura) – Chairman of the Senate.
2	Prof. Kehar Singh, Department of Physics, IIT Delhi.
3	Dr. Aloysius Henry Sequeira, Professor, Department of Humanities, Social Science & Management, NIT, Karnataka.
4	Dr. Subhas Chandra Saha, Professor, NIT Agartala.
5	Prof. Kamakhya Prasad Ghatak, Department of Electronics Science, NIT Agartala (Tripura).
6	Dr. Umesh Mishra, Professor, NIT Agartala.
7	Prof. Monoj Mitra, Prof. of Metallurgy & Dean of Engineering, Jadavpur University.
8	Prof. R. P. Sharma, Civil Engineering Department, NIT Agartala (Tripura).
9	Mr. Sumanta Chakrabarti, Registrar (in-charge) is the Member Secretary of the Senate.

3.2 Number of Meetings of the Authorities

During the period under report the numbers 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	: 2 Nos.
D.	Senate	: 3 Nos.

3.3 Staff Position

3.3.1 Names of Director, Registrar, Deans and HODs

DIRECTOR : Prof. (Dr.) Gopal Mugeraya.
REGISTRAR (in-charge) : Mr. Sumanta Chakraborty.

DEANS:

	<u>Name of the Dean</u>
Dean (Planning & Development)	Dr. A. K. Chakraborty
Dean (Academic)	Prof. R. P. Sharma
Dean (Faculty Welfare)	Prof. K. P. Ghatak
Dean (Research & Consultancy)	Dr. A. Saha
Dean (Administration)	Dr. D. Bhattacharya
Dean (Student Affairs)	Dr. R. S. Panua

Heads of the Departments/ Schools:

	<u>Name of the HODs</u>
Bio-Engineering	Smt. Soma Nag (Nondi)
Chemical Engineering Department	Smt. Soma Nag (Nondi)
Chemistry	Dr. Saroj Kumar Das
Civil Engineering	Dr. Ratul Das.
Computer Science & Engineering	Dr. Paritosh Bhattacharjee.
Electrical Engineering	Dr. Priyanath Das.
Electrical & Communication Engineering	Dr. Shambhu Nath Pradhan
Electronics & Instrumentation Engineering	Dr. Dibyendu Ghoshal
Humanities and Social Sciences	Dr. Debasish Neogi.
Mathematics	Dr. U.K. Bera
Mechanical Engineering	Dr. Prasun Chakraborti
Physics	Dr. J. N. Roy
Production Engineering	Dr. G. Ravi Kiran Sastry
School of Management	Dr. Anirban Dutta

Head of Central Services, Facilities and Section:

Medical Officer	(i) Dr. Tapan Kr. Datta. (ii) Dr. Dhurjati Debbarma. (iii) Dr. Parimal Chakraborty. (iv) Dr. Sushanta Chakma.
Senior Librarian	Mr. Kanu Ranjan Roy
Chief Warden	Dr. R. K. Yadav
Faculty In-charge (Workshop)	Sri Barnik Saha Roy.
Training & Placement Officer	Sri Anirban Bhattacharya
C-DAC Co-ordinator	Sri Nirmalya Kar
Centre Co-ordinator of QIP	Prof. K. P. Ghatak
Centre Co-ordinator of TEQIP	Dr. A. Saha

Engineering Unit:

Estate Engineer (Civil) : Sri P. C. Das

3.3.2 List of Faculty Members

3.3.2.1 Regular faculty members

Sl. No.	Name	Designation	Department	Date of Joining
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 Chakrabarty	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.	Sri 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. Jitendra Nath Roy	Assoc. Prof.	Physics	12-04-2010
26.	Dr. Saroj kumar Das	Assoc. Prof.	Chemistry	01-04-2006
27.	Dr. Tarun Kumar Mishra	Assoc. Prof.	Chemistry	09-04-2012
28.	Dr. Debasish Neogi	Assoc. Prof.	Hum. & So. Sc.	22-08-2008
29.	Sri John Deb Barma	Asst. Prof.	Mech. Engg.	01-04-2006
30.	Sri Prittam Das	Asst. Prof.	Mech. Engg.	01-04-2006
31.	Sri Abhik Majumder	Asst. Prof.	Mech. Engg.	01-04-2006
32.	Sri Madhujit Deb	Asst. Prof.	Mech. Engg.	01-04-2006
33.	Sri Barnik Saha Roy	Asst. Prof.	Mech. Engg.	01-04-2006
34.	Sri Pankaj kumar Das	Asst. Prof.	Mech. Engg.	01-04-2006
35.	Sri Arindam Majumder	Asst. Prof.	Mech. Engg.	20-04-2010
36.	Sri.Rahul Banerjee	Asst. Prof.	Mech. Engg.	12-04-2010
37.	Sri Ankuran Saha	Asst. Prof.	Mech. Engg.	21-05-2012
38.	Sri R.K. Bhogendra Meiti	Asst. Prof.	Mech. Engg.	29-06-2012
39.	Sri Ajoy Biswas	Asst. Prof.	Mech. Engg.	01-07-2007
40.	Dr. Subrata kumar Ghosh	Asst. Prof.	Mech. Engg.	23-07-2012
41.	Smt. Lipika Halder	Asst. Prof.	Civil Engg.	07-06-2012
				01-04-2006

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

84.	Ms.MadhuparnaChakraborty	Asst. Prof.	Electronics & Comm. Engg.	22-06-2012
85.	Mr. Mitra Barun Sarkar	Asst. Prof.	Electronics & Comm. Engg.	15-06-2012
86.	Sri Atanu Chowdhury	Asst. Prof.	Electronics & Inst. Engg.	22-09-2008
87.	Mr. Jayanta Kr. Rakshit	Asst. Prof.	Electronics & Inst. Engg.	23-08-2010
88.	Sri Prasenjit Datta	Asst. Prof.	Prod. Engg.	01-04-2006
89.	Sri Kishan Choudhuri	Asst. Prof.	Prod. Engg.	18-09-2008
90.	Sri Swarup Paul	Asst. Prof.	Prod. Engg.	20-02-2009
91.	Ms. Seena P.	Asst. Prof.	Prod. Engg.	13-05-2010
92.	Dr. Vidyut Dey	Asst. Prof.	Prod. Engg.	01-06-2012
93.	Mr. Uttam Kumar Mandal	Asst. Prof.	Prod. Engg.	28-05-2012
94.	Mrs. Soma Nag	Asst. Prof.	Chemical Engg.	14-06-2010
95.	Dr. Tarun Knt. Bandyopadhyay	Asst. Prof.	Chemical Engg.	04-05-2012
96.	Dr. Srimanta Ray	Asst. Prof.	Chemical Engg.	04-05-2012
97.	Dr. Kalyan Gayen	Asst. Prof.	Chemical Engg.	04-05-2012
98.	Mr. Dwipayen Sen	Asst. Prof.	Chemical Engg.	16-07-2012
99.	Dr. Ajay kumar Manna	Asst. Prof.	Chemical Engg.	17-12-2012
100.	Sri Apu kumar Saha	Asst. Prof.	Mathematics	01-04-2006
101.	Dr. (Mrs) Baby Bhattacharya	Asst. Prof.	Mathematics	06-02-2009
102.	Dr. Rajesh kr. Yadav	Asst. Prof.	Physics	06-09-2010
103.	Dr. Suvra Prakash Mondal	Asst. Prof.	Physics	01-11-2012
104.	Dr. Biswajit Saha	Asst. Prof.	Physics	30-11-2012
105.	Dr. (Mrs.) Mitali Saha	Asst.Prof.	Chemistry	12-04-2010
106.	Dr. Keisham Surjit Singh	Asst. Prof.	Chemistry	26-07-2010
107.	Dr. Gyanabati Khurajam	Asst. Prof.	Hum. & Sco. Sc.	07-05-2010
108.	Dr. Anirban Dutta	Asst. Prof.	School of Management	06-11-2012
109.	Dr. Mrinmoy Majumder	Asst. Prof.	School of Hydro. Info. Engg.	17-11-2012

3.3.2.2 Contractual faculty members.

Sl. No.	Name	Designation	Department	Date of Joining
1.	Ms. Moumita Majumder	Asstt. Prof.	Comp. Sc. & Engg.	18-08-2010
2.	Ms. Lalita Kumari	Asstt. Prof.	Comp. Sc. & Engg.	18-08-2010
3.	Ms. Sharmistha Majumder	Asstt. Prof.	Comp. Sc. & Engg.	24-08-2011
4.	Ms. Priyanka Sarkar	Asstt. Prof.	Comp. Sc. & Engg.	01-04-2013
5.	Mr. Dhruvajyoti Bhowmik,	Asstt. Prof.	Comp. Sc. & Engg.	01-04-2013
6.	Mr. Parthasarathi De	Asstt. Prof.	Comp. Sc. & Engg.	08-04-2013
7.	Ms. Purbani Kar	Asstt. Prof.	Comp. Sc. & Engg.	10-07-2014
8.	Mr. Kishore Kr. Dhar	Asstt. Prof.	Comp. Sc. & Engg.	10-07-2014
9.	Mr.Prashant Bhardwaj	Asstt. Prof.	Comp. Sc. & Engg.	10-07-2014
10.	Ms. Tannistha Pal	Asstt. Prof.	Comp. Sc. & Engg.	10-07-2014
11.	Mr. Sanjib Debnath	Asstt. Prof.	Comp. Sc. & Engg.	10-07-2014
12.	Mr.Rajib Chowdhuri	Asstt. Prof.	Comp. Sc. & Engg.	11-07-2014

13.	Mr. Subhajit Deb	Asstt. Prof.	Civil Engg.	06-08-2010
14.	Ms. Tillotama Chakraborty	Asstt. Prof.	Civil Engg.	30-08-2011
15.	Ms. Nabanita Bhowmik	Asstt. Prof.	Civil Engg.	06-12-2012
16.	Sri Abhijit Debnath	Asstt. Prof.	Civil Engg.	06-12-2012
17.	Ms. Subhra Das	Asstt. Prof.	Civil Engg.	12-12-2012
18.	Mr. Dibyendu Paul	Asstt. Prof.	Civil Engg.	07-10-2014
19.	Mr. Litan Dey	Asstt. Prof.	Civil Engg.	17-07-2014
20.	Ms. Sadria Begam	Asstt. Prof.	Civil Engg.	14-07-2014
21.	Ms. Dipika Debnath	Asstt. Prof.	Civil Engg.	10-10-2014
22.	Mr. Chirabrata Debnath	Asstt. Prof.	Civil Engg.	14-07-2014
23.	Ms. Susmita Paul	Asstt. Prof.	Civil Engg.	14-07-2014
24.	Mrs. Parmita Majumder	Asstt. Prof.	Civil Engg.	21-01-2015
25.	Ms. Nabina Khanam	Asstt. Prof.	Civil Engg.	22-01-2015
26.	Mr. Ratnadeep Modak	Asstt. Prof.	Civil Engg.	21-01-2015
27.	Mr. Bibhab Kr. Lodh	Asstt. Prof.	Chemical Engg.	05-08-2011
28.	Dr. Abhijit Mandal	Asstt. Prof.	Chemical Engg.	21-01-2013
29.	Dr. Mriganka Sekhar Manna	Asstt. Prof.	Chemical Engg.	17-07-2014
30.	Dr. Chandan Kr. Das	Asstt. Prof.	Chemical Engg.	14-07-2014
31.	Dr. Leela Manohar Aeshala	Asstt. Prof.	Chemical Engg.	21-07-2014
32.	Mr. Sudev Das	Asstt. Prof.	Chemical Engg.	11-08-2014
33.	Mr. Abhijit Baidya	Teaching Asstt.	Maths. Dept.	23-08-2010
34.	Dr. Susmita Roy	Asstt. Prof.	Maths. Dept.	01-08-2011
35.	Mr. Jayanta Debnath	Teaching Asstt.	Maths. Dept.	01-08-2011
36.	Ms. Pinki Majumder	Teaching Asstt.	Maths. Dept.	01-08-2011
37.	Ms. Jayasree Chakraborty	Teaching Asstt.	Maths. Dept.	05-09-2012
38.	Dr. Mantu Das	Asstt. Prof.	Maths. Dept.	17-07-2014
39.	Dr. Debjit Dutta	Asstt. Prof.	Maths. Dept.	21-07-2014
40.	Dr. Sankar Prasad Mondal	Asstt. Prof.	Maths. Dept.	22-07-2014
41.	Mr. Subharaj Paul	Teaching Asstt.	Physics Dept.	01-08-2012
42.	Dr. Rakesh Roy	Asstt. Prof.	Physics Dept.	17-07-2013
43.	Dr. (Mrs). Puja Dey	Asstt. Prof.	Physics Dept.	12-08-2013
44.	Dr. Manash Kr. Paul	Asstt. Prof.	Physics Dept.	16-07-2010 17-10-2012
45.	Dr. Sanjay Kr. Mandal	Asstt. Prof.	Physics Dept.	05-11-2012
46.	Dr. Thingujam Kiranmala Devi	Asstt. Prof.	Physics Dept.	21-07-2014
47.	Dr. Nandini Roy	Asstt. Prof.	Physics Dept.	23-07-2014
48.	Mr. Shahanwaz Khan	Asstt. Prof.	Mech. Engg.	03-08-2011
49.	Sri. Durbadal Debroy	Asstt. Prof.	Mech. Engg.	03-08-2011
50.	Sri. Aparesh Datta	Asstt. Prof.	Mech. Engg.	03-08-2011
51.	Sri. Abhishek Paul	Asstt. Prof.	Mech. Engg.	03-08-2011
52.	Mr. Ashis Acharjee	Asstt. Prof.	Mech. Engg.	11-07-2014
53.	Ms. Mitali Debnath	Asstt. Prof.	Mech. Engg.	14-07-2014
54.	Mr. Arindam Sinha	Asstt. Prof.	Mech. Engg.	14-07-2014
55.	Ms. Anindita Sengupta	Asstt. Prof.	Mech. Engg.	14-07-2014

56.	Ms. Sharmistha Sharma	Asstt. Prof.	Elect. Engg.	12-08-2009
57.	Mr. Diptanu Das	Asstt. Prof.	Elect. Engg.	08-08-2011
58.	Dr. Bidyut Kr. Bhattacharya	Professor	Elect. Engg.	17-01-2013
59.	Ms. Saheli Roy	Asstt. Prof.	Elect. Engg.	12-08-2009
60.	Mr. Bhaskar Bhattacharjee	Teaching Asstt.	Elect. Engg.	18-03-2009
61.	Ms. Nivedita Laskar	Asstt. Prof.	Elect. Engg.	15-11-2012
62.	Mr. Diptanu Dey	Asstt. Prof.	Elect. Engg.	14-07-2014
63.	Mr. Saptadip Saha	Asstt. Prof.	Elect. Engg.	11-07-2014
64.	Mr. Arup Ratan Bhowmik	Asstt. Prof.	Elect. Engg.	11-07-2014
65.	Ms. Nabamita Goswami	Asstt. Prof.	Elect. Engg.	11-07-2014
66.	Mr. Bishop Debbarma	Asstt. Prof.	Prod. Engg.	24-08-2010
67.	Mr. Sujay Chakraborty	Asstt. Prof.	Prod. Engg.	01-08-2011
68.	Ms. Pushparenu Bhattacharjee	Asstt. Prof.	Prod. Engg.	08-08-2013
69.	Mr. Nabarun Biswas	Asstt. Prof.	Prod. Engg.	11-07-2014
70.	Mr. Debashis Podder	Asstt. Prof.	Prod. Engg.	18-07-2014
71.	Mr. Shiladitya Chakraborty	Teaching Asstt.	Electronics & Comm. Engg.	25-07-2008
72.	Mr. Suvojit Acharjee	Asstt. Prof.	Electronics & Comm. Engg.	14-07-2014
73.	Mrs. Priyanka Chowdhury	Asstt. Prof.	Electronics & Comm. Engg.	13-08-2014
74.	Mr. Pangambam Uttam Kumar	Asstt. Prof.	Electronics & Comm. Engg.	14-08-2014
75.	Ms. Anindita Goswami	Asstt. Prof.	Electronics & Comm. Engg.	20-08-2014
76.	Mr. Apangshu Das	Asstt. Prof.	Electronics & Comm. Engg.	10-08-2012
77.	Dr. Srijita Basumallick	Asstt. Prof.	Chemistry Dept.	14-07-2014
78.	Dr. Subojit Das	Asstt. Prof.	Chemistry Dept.	24-07-2014
79.	Mr. Mithun Chakraborty	Teaching Asstt.	Chemistry Dept.	07-08-2014
80.	Mr. Manojit Roy	Teaching Asstt.	Chemistry Dept.	07-08-2014
81.	Dr. Rajarshi Banik (Roy)	Asstt. Prof.	Chemistry Dept.	20-01-2015
82.	Mr. Amitava Sharma	Teaching Asstt.	Chemistry Dept.	12-01-2015
83.	Ms. Jhinuk De	Teaching Asstt.	Chemistry Dept.	12-01-2015
84.	Mr. Bidhyasagar Debnath	Teaching Asstt.	Hum. & So. Sc.	04-08-2008
85.	Dr. Kaju Nath	Asstt. Prof.	Hum. & So. Sc.	24-07-2014
86.	Ms. Emily Sharma	Teaching Asstt.	Hum. & So. Sc.	01-09-2014
87.	Mr. Nabendu Debnath	Teaching Asstt.	Hum. & So. Sc.	01-09-2014
88.	Dr. Anuradha Nongmaithem	Asstt. Prof.	Hum. & So. Sc.	25-07-2014

89.	Mr.Prasenjit Ghorai	Asstt.Prof.	Electronics & Instrumentation Engg.	08-08-2011
90.	Ms.Priyanka Dey	Asstt. Prof.	Electronics & Instrumentation Engg.	13-08-2012
91.	Ms. Priyanka Roy Goswami	Asstt. Prof.	Electronics & Instrumentation Engg.	06-02-2012
92.	Mr.Rupam Gupta Roy	Asstt. Prof.	Electronics & Instrumentation Engg.	11-07-2014
93.	Mr.Rajesh Sharma	Asstt. Prof.	Electronics & Instrumentation Engg.	21-07-2014
94.	Ms.Pikaso Pal	Asstt. Prof.	Electronics & Instrumentation Engg.	11-07-2014
95.	Ms.Aparupa Kar	Asstt. Prof.	Electronics & Instrumentation Engg.	11-07-2014
96.	Dr.Dijendra Nath Roy	Asstt. Prof.	Bio-Engg.	28-01-2013
97.	Dr.Biswanath Bhunia	Asstt. Prof.	Bio-Engg.	04-03-2013
98.	Dr.Trident Kr.Bhowmik	Asstt. Prof.	Bio-Engg.	13-06-2013
99.	Dr.Sreerup Banerjee	Asstt. Prof.	Bio-Engg.	21-07-2014
100.	Dr.Deeplina Das	Asstt. Prof.	Bio-Engg.	21-07-2014
101.	Dr.Rajib Mallik,	Asstt. Prof.	School of Management	22-05-2013
102.	Dr.Sonit Dutta	Asstt. Prof.	School of Management	23-05-2013
103.	Ms.Mili Kar	Teaching Asstt.	School of Management	07-08-2013
104.	Dr.Pradeep Kr.Behera	Asstt. Prof.	School of Management	21-07-2014
105.	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

Sl. No.	Name	Designation	Department	Date of Joining
1.	Mr. Sumanta Chakrabarti	Dy. Registrar	O/o the Registrar	12-08-2011
2.	Mr.Tanmoy Ghoshal	Asst. Registrar (Acad.)	Academic Section	07-09-2012
3.	Sri Suman Kamakar	Technical Assistant	Electrical Engg. Department	01-04-2006
4.	Sri Subhankar Chakma	Technical Assistant	Civil Engg. Dept.	01-04-2006
5.	Sri Jyoti Lal Debbarma	Stenographer (SG-II)	O/o the Director	01-04-2006
6.	Sri Jadulal Debnath	Assistant (SG-I)	Establishment Section	01-04-2006
7.	Sri Akhil Debbarma	Accountant	Accounts Section	01-04-2006
8.	Sri Sanjoy Deb Rupini	Sr. Assistant	Establishment Section	01-04-2006
9.	Sri Tarun Debbarma	Sr. Assistant	Stipend & Scholarship and Trng. & Placement	01-04-2006
10.	Smt. Bakul Debbarma	Sr. Assistant	Estt. Section	01-04-2006
11.	Sri Narayan Ch. Banik	Sr. Assistant	Accounts Section	01-04-2006
12.	Sri Sajjal Kr. Dey	Sr. Assistant	Cash Section	01-04-2006

13.	Sri Pradip Kr. Majumder	Jr. Assistant	Academic Section	01-04-2006
14.	Sri Sukhen Saha	Jr. Assistant	Academic Section	01-04-2006
15.	Sri Dharendra Debnath	Jr. Assistant	Library	01-04-2006
16.	Sri Tapan Deb Nath	Technician	Estt. Section	01-04-2006
17.	Sri Dilip Kr. Ghosh	Sr. Technician	Workshop	01-04-2006
18.	Sri Pabitra Acharjee	Technician	Workshop	01-04-2006
19.	Sri Sukhendu Debbarma	Sr. Technician	Elect. Engg.	01-04-2006
20.	Sri Nimal Saha	Attendant (SG-II)	Mech. Engg.	01-04-2006
21.	Sri Ajit Saha	Group - C	Estate Sec.	26-06-1982
22.	Sri Sovan Ch. Deb	Group - C	Prod. Engg.	03-02-1981
23.	Sri Manindra Sarkar	Group - C	Library	20-05-1981
24.	Sri Rajkishore Ghosh	Group - C	Elect. Engg.	26-06-1982
25.	Sri Bijan ch Debnath	Group - C	Civil Engg.	22-09-1980
26.	Sri Ratan Debnath	Group - C	Directors' Office	22-09-1980
27.	Sri Dhanu Rn. Saha	Group - C	Medical Unit	05-12-1980
28.	Sri Manik Chakraborty	Group - C	Civil Engg.	26-06-1982
29.	Sri Ratan Modi	Group - C	CSE Dept.	04-02-1981
30.	Sri Niranjan Ghosh	Group - C	Mech. Engg.	08-12-1980
31.	Sri Jahar Debnath	Group - C	Dean (P&D)	15-09-1987
32.	Smt. Brihalata Debbarma	Group - C	Civil Engg.	06-07-1992
33.	Smt. Uma Saha	Group - C	Exam. Sec.	31-07-1996
34.	Sri Dilip Debbarma	Group - C	Estt. Sec.	22-12-1990
35.	Smt. Sonalaxmi Debbarma	Group - C	Estt. Sec.	04-05-1998
36.	Sri Nepal Debnath	Group - C	Acad. Sec.	14-08-1997
37.	Sri Bishu Debbarma	Group - C	Prod. Engg.	17-05-1999
38.	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	Date of Joining
1.	Sri Sajal Kr. Ganguly (Rtd.)	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 (Rtd.)	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.	Sri Asit Baran Bhatt. (Retd)	Accounts Offi.	Accounts Section	01-06-2009
10.	Sri Rajesh Kn. Majumder	Accountant	Accounts Section	21-11-2007
11.	Mr. Dhruva Lal Banik (Retired)	Accountant	Accounts Section	05-08-2011
12.	Mr. Jagat jyoti Roy (Retd.)	AR.(Finance)	Accounts Section	07-01-2014
13.	Ms Aparna Nath	Accountant	Accounts Section	18-08-2010
14.	Sri Dulal Ch. Das (Retired)	U.D.C.	Accounts Section	07-05-2007
15.	Sri Kartik Ch. Debnath (Retired)	Gr.-D	Accounts Section	01-05-2007

16.	Sri Tapan Kr. Rakshit (Rtd.)	Finance Officer	Accounts Section	06-01-2012
17.	Mr. Shyamal Purakayastha (Rtd.)	Audit Officer	Accounts Section	07-01-2014
18.	Sri Subrata Chakraborty	Audit officer	Accounts Section	05-12-2011
19.	Sri Satya Ranjan Chakraborty (Rtd.)	Section Officer	Establishment Section	17-02-2012
20.	Mr. Kritisundar Saha	Office Assistant	Establishment Section	01-08-2013
21.	Sri Benimadav Bhowmik (Rtd.)	U.D.C.	Establishment Section	03-10-2006
22.	Sri Milan Chandra Sarkar (Rtd.)	Asstt. Reg.	Academic Section	03-08-2009
23.	Sri Kabir Deb	Jr. Assistant	Academic Section	04-06-2007
24.	Ms. Krishna Rani Deb	Jr. Assistant	Academic Section	21-06-2011
	Ms. Susmita Sharma	Tech. Assistant	Academic Section	03-09-2014
25.	Sri Sukdeb Chakraborty (Rtd.)	Superintendent	Exam. Sec.	01-06-2007
26.	Ms. Payel Sarkar	Sr. Assistant	Exam. Sec.	05-07-2011
27.	Sri Sourav Mahajan	Jr. Assistant	Exam. Sec.	12-12-2008
28.	Mr. Himangshu Paul (Rtd.)	Section Officer(Pur)	Purchase Section	26-09-2011
29.	Sri Nabin Chandra Kundu	Lib. Asstt.	Purchase Section	01-04-2010
30.	Smt. Joydipa Bhattacharya	Jr. Assistant	Purchase Section	01-03-2012
31.	Sri Partha Biswas	Estate Manager	Estate Section	12-12-2008
32.	Mr. Rajesh Kr. Modak (Rtd.)	Jr. Engineer	Estate Section	16-09-2011
33.	Sri Nakul Ch. Debnath (Rtd.)	Plumber	Estate Section	01-05-2008
34.	Sri Sudhangshu Kr. Bhowmik (Rtd.)	Plumber	Estate Section	04-11-2009
35.	Sri Sankar Debbarma	Work Asstt.	Estate Section	11-07-2009
36.	Mr. Sanjib Chakraborty	Opt (Auditorium)	Estate Section	27-06-2011
37.	Mr. Basab Kanti Bhattacharjee	Jr. Engineer (Civil)	Estate Section	03-09-2012
38.	Smt. Tapasi Debnath	Jr. Engineer	Estate Section	24-04-2009
39.	Sri Papai Kanti Ghosh	Clerk-Cum-Typist	Estate Section	15-11-2010
40.	Sri Rakesh Tripura	Mason	Estate Section	10-12-2012
41.	Sri Pradip Sutradhar	Carpenter	Estate Section	10-12-2012
42.	Sri Biswajit Das	Helper	Estate Section	10-12-2012
43.	Sri Sanjib Sarkar	Helper	Estate Section	10-12-2012
44.	Sri Milan Karmakar	Helper	Estate Section	10-12-2012
45.	Mr. Paresh Ch. Das (Rtd.)	A.E.E.	Estate Section	02-08-2013
46.	Mr. Narayan Ch. Saha (Rtd.)	A.E.E.	Estate Section	02-08-2013
47.	Mr. Ranjan Roy Chowdhury	A.E.E.	Estate Section	02-08-2013
48.	Mr. Dhruva Jyoti Sarkar	J.E.	Estate Section	25-06-2014
49.	Mr. Manik Bhowmik	J.E.	Estate Section	23-06-2014
50.	Mr. Rajesh Banik	J.E.	Estate Section	13-06-2014
51.	Mr. Ripan Banik	J.E.	Estate Section	01-07-2014
52.	Mr. Bankim Ch. Pal (Retd.)	A.E.E.	Estate Section	13-06-2014

53.	Mr.Bapan Debroy	A.E.E.	Estate Section	20-06-2014
54.	Mr.Debu Debnath	Work Assistant	Estate Section	13-06-2014
55.	Mr.Dipanjana Saha	J.E.	Estate Section	16-12-2014
56.	Mr.Rajesh Sarkar	J.E.	Estate Section	16-12-2014
57.	Mr. Rajkishor Sutradhar	J.E.	Estate Section	17-12-2014
58.	Mr. Bimal Krishna Debnath	A.E.E.	Estate Section	02/09/2010
59.	Mr. Sumit Debnath	J.E.	Estate Section	05-09-2014
60.	Mr. Deep Majumder	J.E.	Estate Section	08-09-2014
61.	Sri Hare Krishna Debnath	Operator	Estate Section	09-11-2010
62.	Sri Debashis Debnath	Operator	Estate Section	09-11-2010
63.	Sri Ranjit Sharma	Helper	Estate Section	09-11-2010
64.	Sri Rajib Chakraborty	Helper	Estate Section	09-11-2010
65.	Sri Chanki Paul	Helper	Estate Section	09-11-2010
66.	Mr. Pradip Das	Electrician	Estate Section	01-12-2011
67.	Mr. Arabinda Das	Electrician	Estate Section	01-12-2011
68.	Mr. Sujit Debnath	Lineman	Estate Section	01-12-2011
69.	Mr. Amar Krishna Saha	Helper	Estate Section	01-12-2011
70.	Mr. Subir Namasudra	Helper	Estate Section	01-12-2011
71.	Sri Biswajit Das	Supervisor	Estate Section	07-08-2012
72.	Sri Pabitra Shil	Electrician	Estate Section	08-08-2012
73.	Sri Krishan Debnath	Lineman	Estate Section	02-08-2012
74.	Sri Krishna Ch. Saha	Lineman	Estate Section	03-08-2012
75.	Sri Uttam Kr.Debnath	Lineman	Estate Section	07-08-2012
76.	Sri Parimal Debnath	Helper	Estate Section	03-08-2012
77.	Sri Biswajit Debbarma	Helper	Estate Section	03-08-2012
78.	Mr. Rajib Deb	Helper	Estate Section	16-06-2014
79.	Mr.Kamal Charan Debnath	Supervisor	Estate Section	16-06-2014
80.	Mr. Matilal Tanti	Operator	Estate Section	16-06-2014
81.	Mr.Manitosh Sarkar	Operator	Estate Section	16-06-2014
82.	Dipayan Sarkar	Electrician	Estate Section	19-08-2014
83.	Mr. Litan Sarkar	Jr. Assistant	TPO	16-07-2010
84.	Mr. Debanjan Bhattacharjee	Training & Placement Astd.	TPO	02-09-2014
85.	Sri Sukanta Goswami	Jr. Assistant	Dean (FW)	19-12-2008
86.	Sri Kanu Ranjan Roy (Rtd.)	Sr. Librarian.	Library	01-09-2009
87.	Sri Shymal Kanti Deb (Rtd.)	Librarian	Library	01-06-2007
88.	Sri Anirban Sharma Roy	Lib. Asstt.	Library	30-01-2012
89.	Sri Dipankar Das	Jr. Assistant	Library	18-12-2008
90.	Sri Govinda Chandra Shil (Rtd.)	Jr. Assistant	Library	13-04-2010
91.	Sri Anupam Pal	Sports Officer	Dean (SW)	16-08-2007
92.	Sri Sukanta Ghoswami	Phy. Edu. Off.	Dean (SW)	16-08-2007
93.	Ms.Rumita Saha	Hostel Supervisor	Dean (SW)	01-08-2012
94.	Ms. Mahuya Biswas	Hostel Supervisor	Dean (SW)	10-02-2010
95.	Mr. Ajoy Bhowmik	Hostel Supervisor	Dean (SW)	16-02-2010

96.	Mr. Rabindra Das	Hostel Supervisor	Dean (SW)	10-02-2010
97.	Sri Sukrit Prasad Dutta	Hostel Supervisor	Dean (SW)	30-07-2012
98.	Sri Satyajit Das	Hostel Supervisor	Dean (SW)	30-07-2012
99.	Sri Sanjoy Ghosh	Hostel Supervisor	Dean (SW)	05-09-2014
100.	Mr. Subrata Ghosh	Hostel Supervisor	Dean (SW)	05-09-2014
102.	Mr. Sukhendu Bikas Sarkar	Hostel Supervisor	Dean (SW)	05-09-2014
103.	Sri Debashish Biswas	Foreman	Workshop	04-08-2008
104.	Sri Manojit Das	Foreman/Instructor	Workshop	18-09-2008
105.	Sri Koushik Debroy	Foreman	Workshop	01-01-2009
106.	Sri Debabrata Sen (Rtd.)	Head Ins.	Workshop	01-01-2008
107.	Sri Arup taru Roy	Instructor	Workshop	19-08-2009
108.	Sri Ranju Kr. Singh	Instructor	Workshop	19-08-2009
109.	Sri Biswajit Debnath	Instructor	Workshop	19-08-2009
110.	Sri Jiban Chandra (Rtd.)	Sr. Engine Operator	Workshop	19-03-2012
111.	Sri Basudeb Banik	Tech.	Workshop	22-12-2008
112.	Sri Sujit Kumar Bhowmik	Skilled Asstt.	Workshop	18-09-2008
113.	Sri Shubhendu Debbarma	Jr. Tech.	Workshop	19-08-2009
114.	Sri Chinmoy Dey	Jr. Tech.	Workshop	19-08-2009
115.	Sri Nikhil Ch. Karmakar (Rtd)	Gr.-D	Workshop	01-06-2007
116.	Mr. Kishore Das	Lab. Asstt.	Mech. Engg.	25-08-2010
117.	Mr. Pinku Saha	Lab. Asstt.	Mech. Engg.	26-08-2010
118.	Sri Bishnupada Das	Driver	Workshop	19-11-2008
119.	Sri Babul Ch. Deb	Driver	Workshop	16-07-2009
120.	Sri Gopal Ch. Das	Driver	Workshop	16-07-2009
121.	Sri Sajal Saha	Driver	Workshop	01-02-2011
122.	Sri Sachindra Ch. Das (Rtd)	Gr. D	Mech. Engg.	01-02-2009
123.	Sei Bhusan Sarkar	Attendant	Mech. Engg.	03-03-2015
124.	Sri Sukanta Paul	Lab. Inst.	Civil Engg.	20-08-2009
125.	Mr. Abhijit Giri	Technical Asstt	Civil Engg.	13-08-2010
126.	Mr. Suman Nandi	Lab. Asstt.	Civil Engg.	10-08-2010
127.	Ms Manisha Deb	Lab. Asstt.	Civil Engg.	13-08-2010
128.	Sri Prasenjit Dutta	Technical Assistant	Civil Engg.	06-12-2012
129.	Ms. Papia Banik	Technical Assistant	Civil Engg.	06-12-2012
130.	Sri Sankar Paul	Technical Assistant	Civil Engg.	13-12-2012
131.	Sri Pramod Pal	Instructor	Production Engg.	04-09-2009
132.	Sri Biswanath Karmakar	Jr. Tech	Production Engg.	04-09-2009
133.	Mr. Raju Singha	Technical Assistant	Production Engg.	08-09-2014

134.	Mr. Sukanta Das	Technical Assistant	Production Engg.	08-09-2014
135.	Mr. Stephen joy Lagardo	Technician	Production Engg.	08-09-2014
136.	Mr. Vishal Paul	Technician	Production Engg.	08-09-2014
137.	Mr. Prasenjit Debnath	Technician	Production Engg.	08-09-2014
138.	Smt. Sima Das	Sr. Ins.	Elect. Engg.	19-08-2009
139.	Smt. Tapa Saha	Tech. Supp. Staff	Elect. Engg.	25-07-2008
140.	Sri Kabir Bhowmik	Sr. Ins.	Elect. Engg.	19-08-2009
141.	Sri Ajit Deb	Lab. Tech	Elect. Engg.	19-08-2009
143.	Mr. Debabrata Bhattacharya	Technical Asstt	Elect. Engg.	09-08-2010
144.	Mr. Jayanta Chowdhury	Technical Asstt	Elect. Engg.	10-07-2012
145.	Mr. Pranab Majumder	Technical Asstt	Elect. Engg.	16-07-2012
146.	Sri Kamal Kn. Pal	System Admin.	Com. Sc. & Engg.	15-12-2008
147.	Mr. Pattha Sarathi Bhattacharjee	Network Admin.	Com. Sc. & Engg.	15-09-2011
148.	Mr. Suman Saha	Lab / Tech Assistant	Com. Sc. & Engg.	09-08-2010
149.	Mr. Viki Datta	Lab / Tech Assistant	Com. Sc. & Engg.	14-09-2011
150.	Sri Malay Paul	Lab / Tech Assistant	Com. Sc. & Engg.	13-03-2012
151.	Sri Rabindra Ch. Das (Retired)	Gr. D	Com. Sc. & Engg.	20-04-2009
152.	Sri Gautam Rakshit	MIS (Administrator)	Com. Sc. & Engg.	06-12-2012
153.	Mr. Dhruva Narayan Das	Technical Asstt	Chemical Engg.	09-08-2010
156.	Mr. Dipankar Goswami	Technical Asstt	Chemical Engg.	06-09-2011
157.	Ms. Sangita Patari	Lab. Asstt.	Physics	22-09-2011
158.	Sri Pijush kn. Datta (Rtd.)	Lab. Asstt	Physics	03-08-2009
159.	Mrs. Madhuri Debnath	Lab. Asstt	Physics	17-07-2013
160.	Mr. Krishna Deb	Lab. Asstt	Physics	17-07-2013
161.	Sri Dulal Chakraborty (Rtd.)	Group – D (Retd.)	Chemistry	01-01-2011
162.	Sri Satyajit Ghosh	Lab. Asstt.	Chemistry	07-09-2012
163.	Ms. Poulami Ghosh	Tech. Asstt.	Electronics & Comm. Engg.	09-12-2011
164.	Mr. Dipesh Debnath	Technician	Electronics & Comm. Engg.	02-01-2012
165.	Mr. Abhijit Chakraborty	Technical Asstt.	Electronics & Comm. Engg.	10-08-2010
166.	Mr. Jagadish Ch. Bhowmik (Retd)	Technician	Electronics & Comm. Engg.	25-07-2014
167.	Sri Anjan Das	Technical Asstt.	Electronics & Inst. Engg.	06-02-2012
168.	Ms. Sulakshana Banik	Lab. Technician	Electronics & Inst. Engg.	13-08-2012
169.	Ms. Sunam Jannat	Lab. Technician	Electronics & Inst. Engg.	14-08-2012
170.	Dr. Tapan Kr. Datta (Rtd.)	Medical Off.	Medical Unit	22-01-2009

171.	Dr. Parimal Chakraborty (Rtd.)	Medical Off.	Medical Unit	01-02-2012
172.	Dr. Amal Kumar Sinha (Rtd.)	Medical Off.	Medical Unit	12-12-2013
173.	Dr.Sushanta Chakma	Medical Off.	Medical Unit	19-03-2015
174.	Sri Rajesh Karmakar	Pharmacist	Medical Unit	17-04-2008
175.	Ms.Supriya Das	Pharmacist	Medical Unit	27-09-2012
176.	Sri Dipen Majumder	Technician	Medical Unit	22-12-2008
177.	Ms. Sabita Biswas	Staff Nurse	Medical Unit	12-12-2013
178.	Ms.Chayanika Das	Lab.Technician	Medical Unit	06-01-2014
179.	Md. Ismail Hussain	Lab.Tech.	Medical Unit	07-01-2014
180.	Mr.Rajat Saha	GDA cum Dresser	Medical Unit	04-03-2015
181.	Mr.Abhijit Ratha	Staff Nurse	Medical Unit	19-06-2014
182.	Sri Dipak Kr. Pal	Security Officer	Admn.	19-08-2011
183.	Sri Sanjit Debbarma	Helper	Guest House	15-07-2009
184.	Sri Suman Rudra Pal	Off. Asstt.	Dean (P&D)	19-08-2008
185.	Mrs. Sanju Debnath	Draftsman	Dean (P&D)	12-12-2008
186.	Smt. Sulekha Sarkar	Cook	Transit House	06-05-2011
187.	Sri Bappi Das	Helper/Cook	Transit House	01-02-2011
188.	Sri Ritabrata Roy	Technical Asstt.	Hydro. Infor. Engg.	02-08-2012
189.	Ms. Lipika Sarkar	Technical Asstt.	Bio-Engg.	28-12-2012
190.	Ms.Subhra Chowdhury	Technical Asstt.	Bio-Engg.	24-12-2012
191.	Mr.V.C.Mathai	Technical Asstt.	MHRD	12-11-2009
192.	Mr.Sourabh Roy	Tech. Asstt.	Virtual Class Room	14-03-2014
193.	Mr.Ratan Majumder	Accounts Asstt. (TEQIP)	TEQIP	10-12-2012
194.	Ms.Baishakhi Saha	Tech. Support Staff	MIS Opt.	20-05-2013
195.	Mr. Sujoy Dey	Office Assistant	TEQIP	16-06-2014
196.	Mr. Pramathesh Banik	Asst. Programmer (Technician)	MIS Section	03-11-2014

3.3.3.3 List of Retired/ Expired Faculty/ Staff Members

Sl. No.	Name	Designation	Department	Date of Expire/ retire
1.	Mr. Asis Sarkar	Asstt. Prof.	Mech. Engg.	14-02-2014 (Expired)
2.	Mr. Ajit Debbarma	Group – C	Estt. Sec.	01-02-2014 (Retired)
3.	Smt. Prembala Debnath	Group-C	ECE Dept.	01-03-2014 (Retired)
4.	Mr.Bhusan sarkar	Group – C	Mech.Engg.	01-02-2015(Retired)

5.	Ms.Mana Rani DasBahadur	Group - C	TPO Section	01-02-2015(Retired)
6.	Mr.Jitendra Debnath	Sr. Assistant	Estate Manager	01-03-2015(Retired)
7.	Mr.Tapan Debnath	Technician	Estt.Section	01-06-2015(Retired)
8.	Mr.Jadulal Debnath	Sr. Assistant	Estt.Section	01-09-2015(Retired)

3.4 RTI and Vigilance Cell:

The Institute has an RTI Cell under the Appellate Authority of the Director, NIT Agartala. Dr. D. Bhattacharya is the Central Public Information Officer. Prof. U. Mishra 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 under graduate 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 Vidyalay, 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 qualify Joint Entrance Examination (JEE)-Main conducted by CBSE are admitted to this Institute as per seat allotted 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 sciences 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 2014-2015:

Table 1 – Fresh Admission

Sl. No.	Dept.	B. Tech.	BSMS	BTMT	M. Tech	MCA	MBA	M. Sc.	Ph. D
1	Civil	178			96				6
2	Mechanical	88			50				5
3	Electrical	88			56				7
4	CSE	80			14	17			
5	ECE	86			34				3
6	Production	71			7				1
7	Chemical	47			7				1
8	EIE	48							
9	Bio-Eng	22							
10	Physics		11	15				8	3
11	Chemistry		15					7	2
12	Mathematics		14					5	
13	SoM						17		
Total		708	40	15	264	17	17	20	28

Note: CSE-Computer Science and Engineering, ECE- Electronics and Communication Engineering, EIE- Electronics and Instrumentation Engineering, Eng Physics- Engineering Physics, SoM – School of Management.

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

Category	UG	PG	Particulars	Course	Total
Schedule Caste	131	37	QIP	M.Tech	0
Schedule Tribes	99	20		Ph.D	0
Physically Handicapped	12	4	Sponsored	M.Tech	6
Total	242	61	Project	Ph.D	
			External Registration	Ph.D	0

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	39	21	12	17	15	10	10	16	3
	Girls	8	0	10	6	9	5	4	6	4
	Total	47	21	22	23	24	15	14	22	7
OPPH	Boys	0	0	0	0	0	0	0	0	0
	Girls	0	0	0	0	0	1	0	0	0
	Total	0	0	0	0	0	1	0	0	0
SC	Boys	11	8	3	5	5	4	4	7	1
	Girls	3	0	4	1	2	1	1	1	2
	Total	14	8	7	6	7	5	5	8	3
ST	Boys	18	12	9	3	3	0	0	0	0
	Girls	9	1	5	2	6	0	0	0	0
	Total	27	13	14	5	9	0	0	0	0
From the various part of the country except the State of Tripura:										
OP	Boys	40	23	19	19	21	12	13	20	6
	Girls	2	0	1	3	3	1	1	0	0
	Total	42	23	20	22	24	13	14	20	6
OPPH	Boys	3	1	2	1	0	0	0	0	1
	Girls	0	0	0	0	0	0	0	0	0
	Total	3	1	2	1	0	0	0	0	1
SC	Boys	14	7	6	7	6	3	4	7	1
	Girls	0	0	1	0	1	1	0	0	0
	Total	14	7	7	7	7	4	4	7	1
ST	Boys	6	3	3	4	3	2	2	3	0
	Girls	1	0	0	0	0	0	0	0	0
	Total	7	3	3	4	3	2	2	3	0
OBC	Boys	24	12	12	12	9	7	8	9	4
	Girls	0	0	1	0	2	1	0	0	0
	Total	24	12	13	12	11	8	8	9	4
OBCPH	Boys	0	0	0	0	1	0	0	2	0

	Girls	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	1	0	0	2	0
Total intake capacity		184	90	90	90	92	61	60	90	30
Total admitted		178	88	88	80	86	48	47	71	22
Total vacant		6	2	2	10	6	13	13	19	8

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

		CE	ME	EE	CSE	EC	PE	CH
OP	Boys	40	27	22	05	16	07	4
	Girls	07	01	10	04	01	00	0
	Total	47	28	32	09	17	07	04
OBC	Boys	21	11	09	00	07	00	0
	Girls	04	01	03	04	02	00	1
	Total	25	12	12	04	09	00	01
SC	Boys	11	06	07	00	04	00	1
	Girls	04	00	01	01	01	00	0
	Total	15	06	08	01	05	00	01
ST	Boys	06	03	01	00	02	00	0
	Girls	03	00	03	00	01	00	1
	Total	09	03	04	00	03	00	01
Total intake capacity		110	56	64	18	36	18	10
Total admitted		96	50	56	14	34	07	07
Total vacant		14	06	08	04	02	11	03

Table 4 – Admitted students in BSMS and BTME 1st Semester

		BSMS	BTMT
From the State of Tripura:			
OP	Boys	7	4
	Girls	7	2
	Total	14	6
OPPH	Boys	0	0
	Girls	0	0
	Total	0	0
SC	Boys	4	1
	Girls	1	0
	Total	5	1
ST	Boys	1	0
	Girls	0	0
	Total	1	0
From the various part of the country except the State of Tripura			
OP	Boys	11	4
	Girls	0	0
	Total	11	4
OPPH	Boys	0	0
	Girls	0	0

	Total	0	0
SC	Boys	1	1
	Girls	2	0
	Total	3	1
ST	Boys	2	1
	Girls	0	0
	Total	2	1
OBC	Boys	4	1
	Girls	0	1
	Total	4	2
Total intake capacity		60	20
Total admitted		40	15
Total vacant		20	5

Table 5 – Admitted students M. Sc, MCA and MBA 1st Semester

		M. Sc. (Math.)	M. Sc. (Phy.)	M. Sc. (Chem.)	MCA	MBA
OP	Boys	1	3	2	15	4
	Girls	1	3	3	2	6
	Total	2	6	5	17	10
OBC	Boys	1	1	1	12	0
	Girls	1	1	1	2	1
	Total	2	2	2	14	1
SC	Boys	0	0	0	0	2
	Girls	0	0	0	1	0
	Total	0	0	0	1	2
ST	Boys	0	0	0	0	0
	Girls	1	0	0	0	0
	Total	1	0	0	0	0
Total intake capacity		10	10	10	40	30
Total admitted		5	8	7	32	13
Total vacant		5	2	3	8	17

4.5 Students/ Scholars Enrolment:

The total numbers of students on roll in various programmes of the Institute in the academic year 2014-2015 are given below:

TABLE 6 – Students on roll

Sl. No.	Department	B. Tech	BS-MS	BT-MT	MCA	M. Tech.	M. Sc.	MBA	Ph. D
1	Civil	715				187			
2	Mechanical	370				100			
3	Electrical	358				119			
4	CSE	306				32			

5	ECE	324				69			
6	Production	239				20			
7	Chemical	167				7			
8	EIE	184				0			
9	BIO-Eng	64				0			
10	Physics		16				41		
11	Chemistry		23						
12	Mathematics		24						
13	Eng Physics			29					
14	Computer Application				78				
15	Business Administration							30	
16	Ph.D								191
Total		2727	63	29	78	534	41	30	191

The above total includes the following:

DASA (Indian origin)	00	QIP	M. Tech.	00
Scheduled Castes	99+ 534		Ph. D.	00
Scheduled Tribes	49+ 418	Sponsored	M. Tech.	11
Physically Handicapped	04+ 24	Project	Ph. D.	00
Women students	254+ 123	External Registration	Ph. D.	00
Total	1505	Registration Kept Alive	Ph. D.	191
		Part Time Programme (M. Tech.)		00

SC/ ST/ OBC/ OPPH Students on roll as on 31-03-2014:

Sl. No.	Programme	SC	ST	OBC	OPPH
1.	B. Tech.	517	412	610	24
2.	BS-MS	12	5	13	0
3.	BT-MT	5	1	7	0
4.	MCA	7	0	37	00
5.	M. Tech.	77	40	125	04
6.	M. Sc.	4	1	11	00
7.	MBA	3	2	2	00
8.	Ph. D.	8	6	21	00
Total		633	467	826	28

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	2014	2013	2012	2011	others
1	Civil Engineering	715	683	513	493	00
2	Mechanical Engineering	370	359	285	289	00

3	Electrical Engineering	358	334	226	284	00
4	Computer Sc. & Engg.	306	285	236	236	00
5	Electronics & Comm. Engineering	324	314	284	284	00
6	Transportation Engg	00	00	00	14	00
7	Production Engineering	239	165	115	115	00
8	Electronics & Inst.Engg.	184	198	100	100	00
9	Chemical Engineering	167	139	71	71	00
10	Bio Engineering	64	42	22	00	00
11	Physics (BS-MS)	16	5	00	00	00
12	Chemistry (BS-MS)	23	8	00	00	00
13	Mathematics (BS-MS)	24	10	00	00	00
14	Engineering Physics (BT-MT)	29	14	00	00	00
	Total	2819	2556	1852	1886	00

TABLE 8 – Students on roll at Post Graduate Level

Sl. No.	Programme	Branch	Specialization	2014	2013	Total	
01.	M.Tech	Civil Engineering	Geotechnical Engineering	35	27	62	
			Structural Engineering	34	26	60	
			Environmental Engineering	29	17	46	
			Transportation Engineering	33	26	59	
			Water Resources Engineering	16	07	23	
			Seismic Science & Engineering	14	07	21	
			Hydro Informatics Engineering	23	22	45	
02.		Mechanical Engineering	Thermal Science & Engineering	34	27	61	
			Manufacturing Technology	34	26	60	
			Machine Design	15	07	22	
			Automotive Engineering	16	08	24	
03.		Electrical Engineering	Power Electronics & Drives	35	25	60	
			Power System Engineering	33	25	58	
			Instrumentation Engineering	33	26	59	
			Integrated Energy System	16	09	25	
04.		Computer Sc. & Engineering	Computer Sc. & Engineering	31	28	59	
05.			Electronics & Comm. Engg.	VLSI & Nano Technology	35	28	63
				Communication Engineering	34	27	61
06.			Production Engg.	Computer integrated manufacturing	20	23	43
07.			Chemical Engg.	Chemical Engg.	14	07	21
08.	M. Sc.		Physics	17	15	32	
			Chemistry	11	11	22	
		Mathematics	12	11	23		

09.	MBA	Business Administration	30	30	60
10	MCA	Computer Application	68	65	143

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 Mid-Term and End-Term examinations 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	01
7.	M.Sc	03
8.	Ph.D	11

4.8 Convocation:

The National Institute of Technology Agartala organizes its 7th Convocation on 8th November 2014. Padma Vibhushan, Prof. Man Mohan Sharma, Emeritus Professor of Eminence and former Director, Institute of Chemical Technology, adorn the 7th Convocation Ceremony as a Chief Guest.

In the 7th Convocation, Institute awarded B. Tech. degree to a total number of 500 students. Branch wise results are given as under:-

Civil Engineering: 23 students passed with Distinction, 90 passed with First class and 33 with Second class.

Mechanical Engineering: 13 students passed with Distinction and 50 students passed with First class and 14 with second class.

Electrical Engineering: 21 students passed with Distinction, 37 students passed with First class and 06 with Second class.

Computer Science & Engineering: 13 students passed with Distinction and 43 students passed with First class and 03 with second class.

Electronics and Communication Engineering: 27 students passed with Distinction, 38 students passed with First class and 11 with Second class.

Electronics and Instrumentation Engineering: 7 students passed with Distinction, and rest 22 students passed with First class.

Production Engineering: 09 students passed with Distinction and 15 students passed with First class and 06 student passed with Second class.

Chemical Engineering: 06 students passed with Distinction, 12 students passed with First class 01 student passed with Second class.

M. Tech degree awarded to a total number of 118 students in the 7th convocation.

Branch wise results are given as under:- Civil Engineering: 31 students passed. Mechanical Engineering: 18 students passed. Electrical Engineering: 22 students passed. Computer Sc. & Engineering: 11 students passed. Electronics & Communication Engineering: 20 students passed. Production Engineering: 10 students passed Hydro-informatics Engineering: 06 students passed.

M. Sc degree was awarded to a total number of 15 students in the 7th convocation.

Subject wise results are given as under:- Physics: 05 students passed. Chemistry: 07 students passed. Mathematics: 03 students passed.

MCA degree was awarded to a total number of 16 students.

MBA degree was awarded to a total number of 13 students.

Institute awarded 3 scholars for Ph.D Degree - 1 in Engineering and 2 in Science in the 7th Convocation.

TABLE 10 – Degree awarded

Sl. No.	Department	B. Tech	MCA	M. Tech.	M. Sc.	MBA	Ph. D.
1	Civil Engineering	146	00	31	00	00	00
2	Mechanical Engineering	77	00	18	00	00	00
3	Electrical Engineering	64	00	22	00	00	00
4	Computer Sc. &	59	00	11	00	00	00

	Engg.						
5	Electronics & Comm. Engineering	76	00	20	00	00	00
6	Production Engineering	30	00	10	00	00	00
7	Electronics & Inst. Engg.	29	00	00	00	00	00
8	Chemical Engineering	19	00	00	00	00	00
9	Hydro-Informatics Engineering	00	00	06	00	00	00
10	Physics		00	00	05	00	00
11	Chemistry	00	00	00	07	00	00
12	Mathematics	00	00	00	03	00	00
13	Computer Application	00	16	00	00	00	00
14	Business Administration	00	00	00	00	13	00
15	Ph.D	00	00	00	00	00	03

With this convocation, the total number of degrees awarded so far by the Institute is 665, the details of which are given below:

Sl. No.	Programme	No. of Students
01.	Ph. D.	3
02.	M. Tech.	118
03.	B. Tech.	500
04.	MCA	16
05.	M. Sc.	15
06.	MBA	13
Total		665

4.8.1 Convocation Prizes:

The following are the details of Prizes awarded to the students at the 7th Convocation:

Programme	Name of the Prize	Name of students/ persons	Branch Name
B. Tech.	Gold Medal for Institute Topper (UNDER GRADUATE)	Rishu Raj	Electrical Engineering
	Gold Plated Silver Medal to Branch Toppers (UNDER GRADUATE)	RAUNAK KUMAR	Civil Engineering
		SAGNIK DEY	Mechanical Engineering
		PURNIMA SINGHAL	Computer Science & Engineering

		DWAIPAYAN RAY	Electronics & Communication Engineering
		ABHINAV ANAND	Electronics & Instrumentation Engineering
		DIVYANSHU RAJ	Production Engineering
		MAYANK SHUKLA	Chemical Engineering

Programme	Name of the Prize	Name of students/ Persons	Branch Name	Specialization
M.Tech	Gold Medal for Institute Topper (POST-GRADUATE)	Payel Saha	Civil Engineering	Transportation
	Gold Plated Silver Medal to Branch Toppers (POST-GRADUATE)	TANMOY MEDHI	Mechanical Engg	Manufacturing Engg.
		NAVONITA SHARMA	Electrical Engg	Power System
		ANGOM BUBOO SINGH	Computer Science & Engg	Computer Science & Engg
		BIKRAM KISHORE MAHAJAN	Electronics & Communication Engg.	Micro Electronics & VLSI
		VAIBHAV ANAND	Production Engg.	Computer Integrated Manufacturing
		MAIKEL DAS	School of Hydro-informatics	Hydro-Informatics
MCA	Gold Plated Silver Medal to Branch Toppers	VISHALIKA CHORARIA	Computer Application	
MBA	Gold Plated Silver Medal to Branch Toppers	SHARAD RAJ SHARMA	Business Management	
M.Sc	Gold Plated Silver Medal to Branch Toppers	ATANU PURKAYASTHA	Chemistry	
		SAURAB DHAR	Physics	
		JAYANTA ACHARJEE	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 three years, the department has set up four undergraduate laboratories, and has completed five important laboratory course viz., Biochemistry lab, Microbiology lab, Immunology Lab, Genetics Lab and Bioinformatics Lab. In future the department will also start M.Tech and PhD programme. The academic staff of this department has various backgrounds in engineering and life sciences. 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.



Students performing Biochemistry Lab



Bio Engineering Students

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:

Sl. No	Name of the Laboratories	Maximum Batch Size	Weekly hours required as per curricula	No. of Experiments		Recurring Expenditure (Allotted per year)
				Prescribed	Conducted	
1.	Biochemistry Lab (3 rd semester)	30	3	10	09	Rs 1,00,000.00
2.	Microbiology Lab (4 th Semester)	30	3	10	09	Rs 1,00,000.00
3.	Genetics Laboratory (5 th semester)	30	3	5	5	Rs 1,00,000.00
4.	Immunology Laboratory (5 th semester)	30	3	4	4	Rs 1,00,000.00
5.	Bioinformatics and Computational Biology Lab (6 th Semester)	30	3	6	6	Rs 1,00,000.00

5.4 Faculty and their Activities:

Short-Term Courses/Workshops/Seminar/Symposia/Conference Organized by the faculty members:

Sl. No.	Co-coordinators	Title	Period
Workshops			
1	Coordinator and speaker: Dr. Tarun Kanti Bandyopadhyay	Recent Advances And Scopes In Bioengineering	10 th March, 2015
2.	Dr. Tarun Kanti Bandyopadhyay as a Member	Three days workshop on Advanced Numerical Techniques using Mat lab on October 7-9, 2013 organized by Department of Chemical Engineering	Three days October 7-9, 2013
3.	Dr. Tarun Kanti Bandyopadhyay as a Member	Two day Training workshop on Promotion and knowledge transfer for value addition of rubber in Tripura on July (17-18), 2013 sponsored by TIFAC at Department of Chemical Engineering, NIT Agartala	Two days July (17-18), 2013
4.	Dr. Tarun Kanti Bandyopadhyay as a member of Organizer Committee and paper presenter	National Convention Recent trends in Research, development and innovations in chemical industries: organized by Institute of Engineers and NIT, Agartala, 6-8 September, 2014	Three days 6-8 September, 2014

5.	Dr. Dijendra Nath Roy as Co-coordinators and Speaker	Recent Advances And Scopes In Bioengineering	10 th March, 2015
6.	Dr. Biswanath Bhunia as Co-coordinators and Speaker	Recent Advances And Scopes In Bioengineering	10 th March, 2015
7.	Dr. Deeplina Das as Co-coordinators and Speaker	Recent Advances And Scopes In Bioengineering	10 th March, 2015
8.	Dr. Sucharita Sen Maity as Co-coordinators and Speaker	Recent Advances And Scopes In Bioengineering	10 th March, 2015
9.	Dr. Sreerup Banerjee as Co-coordinators and Speaker	Recent Advances And Scopes In Bioengineering	10 th March, 2015
Conference Organized			
1.	Dr. Tarun Kanti Bandyopadhyay Dr. Dijendra Nath Roy Dr. Biswanath Bhunia Dr. Deeplina Das Dr. Sucharita Sen Maity Dr. Sreerup Banerjee	Thirtieth (30 th) National Convention Of Chemical Engineers And National Seminar On "Recent Trends In Research, Developments And Innovations In Chemical Industries"	6-7 September, 2014.

Short-Term Courses/Workshops/Seminar/Symposia/Conferences/Training attended by the faculty in Academic Institutes and Public Sector Undertaking:

Sl. No.	Name of Faculty	Title	Period
Workshops			
1.	Dr. Tarun Kanti Bandyopadhyay	Recent Advances And Scopes In Bioengineering	10 th March, 2015
2.	Dr. Tarun Kanti Bandyopadhyay	Advances in Tribology under TEQIP-II	November (08-09), 2014
3.	Dr. Tarun Kanti Bandyopadhyay	Advanced Materials & Machining" under TEQIP-II,	January (9-10), 2014
4.	Dr. Tarun Kanti Bandyopadhyay	Advances in multi-criteria decision making (MCDM) Techniques" under TEQIP-II	January (13-14), 2014
5.	Dr. Tarun Kanti Bandyopadhyay	Green Energy & Economy under TEQIP Phase-II	February (6-7), 2014
6.	Dr. Tarun Kanti Bandyopadhyay	Fluid Mechanics	20 th – 30 th May, 2014
7.	Dr. Tarun Kanti Bandyopadhyay	Fluid flow and heat transfer in microchannel	August (21-22), 2014
8.	Dr. Dijendra Nath Roy	Recent Advances And Scopes In Bioengineering	10 th March, 2015
9.	Dr. Biswanath Bhunia	Recent Advances And Scopes In Bioengineering	10 th March, 2015

10.	Dr. Tridib Kumar Bhowmick	Two week ISTE main workshop on fluid mechanics National Mission on Education through ICT (MHRD, Govt. of India)	May 20, 2014 to May 30, 2014
11.	Dr. Deeplina Das	Recent Advances And Scopes In Bioengineering	10 th March, 2015
12.	Dr. Deeplina Das	Human Computer Interaction	13-14 th February'2015
13.	Dr. Sucharita Sen Maity	Recent Advances And Scopes In Bioengineering	10 th March, 2015
14.	Dr. Sucharita Sen Maity	Solid Waste management, challenges and opportunities	12-14 th Jan 2015
15.	Dr. Sreerup Banerjee	Recent Advances And Scopes In Bioengineering	10 th March, 2015
16.	Dr. Sreerup Banerjee	Human Computer Interaction	13-14 th February'2015
Conference:			
1.	Dr. Tarun Kanti Bandyopadhyay	Thirtieth (30 th) National Convention Of Chemical Engineers And National Seminar On "Recent Trends In Research, Developments And Innovations In Chemical Industries"	6-7 September, 2014.
2.	Dr. Dijendra Nath Roy	Thirtieth (30 th) National Convention Of Chemical Engineers And National Seminar On "Recent Trends In Research, Developments And Innovations In Chemical Industries"	6-7 September, 2014.
3.	Dr. Biswanath Bhunia	Thirtieth (30 th) National Convention Of Chemical Engineers And National Seminar On "Recent Trends In Research, Developments And Innovations In Chemical Industries"	6-7 September, 2014.
4.	Dr. Tridib Kumar Bhowmick	Thirtieth (30 th) National Convention Of Chemical Engineers And National Seminar On "Recent Trends In Research, Developments And Innovations In Chemical Industries"	6-7 September, 2014.
5.	Dr. Deeplina Das	Thirtieth (30 th) National Convention Of Chemical Engineers And National Seminar On "Recent Trends In Research, Developments And Innovations In Chemical Industries"	6-7 September, 2014.
6.	Dr. Sucharita Sen Maity	Thirtieth (30 th) National Convention Of Chemical Engineers And National Seminar On "Recent Trends In Research, Developments And Innovations In Chemical Industries"	6-7 September, 2014.
7.	Dr. Sreerup Banerjee	Thirtieth (30 th) National Convention Of Chemical Engineers And National Seminar On "Recent Trends In Research,	6-7 September, 2014.

		Developments And Innovations In Chemical Industries"	
Short term Course:			
1.	Dr. Biswanath Bhunia	ONE WEEK SHORT TERM PROGRAMME ON INDUSTRIAL WASTE MANAGEMENT AND RECOVERY VALUE ADDED PRODUCTS (IWMRVP-2014)	30 th June to 4 th July 2014

Fellowships of Academics and Professional Societies:

Sl. No.	Name of Faculty	Level	Year
ISTE/CSI and others			
1.	Dr. Tridib Kumar Bhowmick	Member, IE(I)	2015

5.5 Research and Consultancy :

Sponsored Research Projects:

Sl. No.	Title	Period	Funding Agency	Amount (In lakhs)	Coordinators
1.	The role of endocrine disrupting chemicals (EDCs) on estrogen receptors (Ers) using molecular docking.	16 th May, 2014 to 15 th May 2017	DST	Rs. 17 Lakh	Dr. Biswanath Bhunia

Research Publications:

Total No. of papers published in Refereed International Journals	: 22
Total No. of papers presented in National Conferences	: 02
Total No. of papers presented in International Conferences	: 06
Total No. of Book Published	: 01

In Refereed International Journals:

Name of the Authors published in International Journals	Title of the Journals	Date of publication of the paper	Issue/ Volume No./ Page No
Tarunkanti Bandyopadhyay and Sudip Kumar Das	International Journal of Fluid Mechanics Research.	2014	pages 318-336
Tarun Kanti Bandyopadhyay, Sudhansu Sandhibigraha and Sudip Kumar Das	American Journal of Fluid Dynamics	2014	4(2): 56-68
T.K. Bandyopadhyay and Suman Debnath, Apu Kumar Saha and Mrinmoy Mazumder	International Journal of Mathematics and Computation	2015	Vol. 26, Issue No. 4, pp. 17-34,
Bikram Basak, Biswanath Bhunia and Apurba Dey	International Biodeterioration & Biodegradation	September 2014	Volume 93, , Pages 107-117
G. Pyrgiotakis, T.K. Bhowmick, K. Finton, A.K. Suresh, S.G.	Biopolymers	2008	89(6): 555-564

Kane, Jayesh R. Bellare, and B. Moudgil			
T.K. Bhowmick, G. Pyrgiotakis, K. Finton, A.K. Suresh, S.G. Kane, B. Moudgil, and Jayesh R. Bellare	Journal of Raman Spectroscopy	2008	39 (12) :1859-1868
T. K. Bhowmick, A. K. Suresh, S.G. Kane, A. Joshi, J. R. Bellare	Journal of Nanoparticle Research	2009	11 (3):655–664
T. K. Bhowmick, A. K. Suresh, S.G. Kane, A. Joshi, J. R. Bellare	International Journal of Green Nanotechnology: Biomedicine	2009	1(1): B69 - B89
T. K. Bhowmick, D. Yoon, M. Patel, J. Fisher, S. Ehrman	Journal of Nanoparticle Research	2010	12 (8): 2757-2770
Janet Hsu, Daniel Serrano, Tridib Bhowmick, Kishan Kumar, Yang Shen, Yuan Chia Kuo, Carmen Garnacho, Silvia Muro	Journal of Control Release	2011	149(3): 323-331
Andres Calderon; Tridib Bhowmick; John Leferovich; Bahrat Burmann; Benjamin Pichette; Vladimir Muzykantov; David Eckmann; Silvia Muro	Journal of Control Release	2011	150 (1): 37-44
Bhowmick T, Berk E, Cui X, Muzykantov V, Muro S.	Journal of Control Release	2012	157(3): 485-492
Hsu J, Northrup L, Bhowmick T, Muro S.	Nanomedicine: Nanotechnology, Biology, and Medicine	2012	8: 731–739.
Serrano D, Bhowmick T, Chadha R, Garnacho C, Muro S.	Arteriosclerosis, Thrombosis, and Vascular Biology	2012	32 (5):1178-1185.
Ghaffarian R, Bhowmick T, Muro S	Journal of Controlled Release	2012	163 (1): 25-33.
Papademetriou, J., Garnacho, C., Serrano D, Bhowmick T.; Muro, S.	Journal of Inherited Metabolic Disease	2013	36 (3), 467-477.
Janet Hsu, Tridib Bhowmick, Scott R. Burks, Joseph P.Y. Kao, and Silvia Muro	Journal of Biomedical Nanotechnology	2014	10 (2): 345–354.
Maria Ansar, Daniel Serrano, Iason Papademetriou, Tridib Bhowmick, Silvia Muro	ACS Nano	2013	7(12),10597–10611.
Deeplina Das, Riwoo Baruah, Arun Goyal	International Journal of Biological Macromolecules	5 th May, 2014	69, 20-26.
Deeplina Das and Arun Goyal	Food & Function	8 th August, 2014	5, 2453-2462
Deeplina Das and Arun Goyal	Annals of Microbiology	1 st Dec, 2014	64(4), 1715-1724
Sreerup Banerjee, Mark Fox,	American Journal of	15 th April'	Issue: 8;

Anupam Pal	Physiology Gastrointestinal and Liver Physiology	2015	Volume: 308; Page: G652- G663
Jelena Curcic, Alexandra Schwizer, Elad Kaufman, Zsofia Forras-Kaufman, Sreerup Banerjee, Anupam Pal, Geoffrey S. Hebbard, Peter Boesiger, Michael Fried, Andreas Steingoetter, Werner Schwizer, Mark Fox	Alimentary Pharmacology & Therapeutics	17 th September'2 014	Issue: 10; Volume: 40; Page: 1230- 1240

In Proceedings of National Conferences:

Name of the Conference	Place of the Conference	Name of the participants	Date/Duration
National Conference on Recent Trends in Chemical and Allied Industries : Engineering , Economics & Environment	IICHe, J.U	Dr. Tarun Kanti Bandyopadhyay	28-29 June, 2014
National Convention Recent trends in Research, development and innovations in chemical industries	NIT, Agartala	T. K. Bandyopadhyay and Sudip Kumar Das	6-8 September, 2014

In Proceedings of International Conferences:

Name of the Conference	Place of the Conference	Name of the participants	Date/Duration
The 3 rd Abu Dhabi University Annual International Conference: Mathematical Sciences & It's Applications,	Abu Dhabi, UAE,	T.K. Bandyopadhyay, Suman Debnath, Apu Kumar Saha and Mrinmoy Mazumdar	December 27-30, 2014
Third International Conference on Petroleum Science and Technology 2014	IIT Madras	Kumar, T., Bhunia, B., Mandal, T. and Apurba Dey.	November 3-5, 2014
Lysosomal Disease Network's WORLD Symposium™ 2012	Manchester Grand Hyatt One Market Place San Diego, CA 92101 - USA	Hsu J, Muro S (2012), Molec Genet Metab, 105(2):S37.	February 8-10, 2012
Lysosomal Disease Network's WORLD Symposium™ 2012	Manchester Grand Hyatt One Market Place San Diego, CA 92101 - USA	Muro S (2012), Molec Genet Metab, 105(2):S30.	February 8-10, 2012
7th Annual World Symposium, Research for Lysosomal Diseases Las Vegas, Nevada	Las Vegas, Nevada, USA	Hsu J, Muro S (2011) Molec Genet Metab, 102(2):S31.	February 16-18, 2011
2008 Annual Meeting AIChE, 2008,	Philadelphia, PA, USA	Ogunsola, O., Ehrman, S., (2008)	November 16-21

Books Published:

Name of the Authors Published	Title of The Books	Date Publication Book	of of	Issue/ Volume No./ Page No
Damini Kothari, Deeplina Das, Arun Goyal	Polysaccharides (Dextran and Food Application)	2014		DOI 10.1007/978-3-319-03751-6_66-1

Distinguished Visitors to the Departments:

Sl. No.	Name of the Visitors and Designation	Date of Visit	Purpose of Visit
1.	Dr. Apurba Dey, Professor	21.11.2014	Moderation of Question paper and Lecture
2.	Dr. O N Tiwari, Scientist & PI DBT & ICAR Project, (Institute of Bioresources and Sustainable Development (IBSD)	March 5, 2015	Project Review Meeting
3	Mr. Abhijit Ghorai; Application Scientist; Flow Cytometry division; Beckman Coulter Inc.	November'2014	Invited talk

5.6 Institute –Industry Collaboration:

1. Dr. Tarunkanti Bandyopadhyay, HOD, Bio Engineering is taking initiative as a active leader to collaborate with Dr. Saswata Goswami, Scientist –E, Center of Innovative and Applied Bioprocessing (CIAB), Mohali 160071, Punjab and CIAB, Mohali has selected to Dr. Tarunkanti Bandyopadhyay as a expert for the project proposal with Thaper Industries (DBT funded project on Nano Cellulose), Thaper University.
2. Dr. Tarunkanti Bandyopadhyay, HOD, Bio Engineering, has also started to collaborate with Dr. S.S.Maitra, Associate professor in Biochemical Engineering, School of Biotechnology, J.N.U. One multi institute joint project proposal on microbiologically enhanced fracking of oil bearing shales will be submitted with JNU. India has lot of oil bearing shales but no technology to recover oil from it. We can study how hydrodynamics of fracking get changed by addition of bacterial polymers in fracking water or whether injecting methanogen and producing methane in situ in shale stones improves fracturing.
3. One multi institute project proposal has been submitted with NIT, Durgapur to DBT for large scale xylanase production through recombinant Strain where Dr. Tarunkanti Bandyopadhyay, HOD is a coordinator.
4. Department is taking initiative for industrial collaboration with different industries to create a bridge between industry and institute. In this regard, Dr. Biswanath Bhunia along with Dr. Tarunkanti Bandyopadhyay, HOD are looking for an industrial project proposal which will be submitted shortly collaboration with Rossari Biotech and CIAB Mohali.

5.7 Industrial Consultancy and Sponsored Research :

There is no industrial consultancy in the department. However, one sponsored project is 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. The research activities from the exiting faculty members are:

- Enzyme production (Xylanase, Lipase) and its application
- Biodiesel Production and characterization
- Dye removal from industrial effluent
- Modeling and simulation of Bioprocess and reactor design
- Molecular Docking
- CFD analysis
- Environmental Engineering
- Bio fuels
- Fermentation Technology
- Enzyme and Microbial Technology
- Bioinformatics
- Drug delivery
- Nanobiotechnology

Student Activities:

IEI Student Chapter namely Agartala NIT Students' Chapter (Bio) was set up at the Bio Engineering Department. Student chapter was organized on 23.04.2015 an interactive session with Dr. Swapan Bhaumik, FIE, Associate Professor & HOD, Mechanical Engg. Department and Chairman, The Institution of Engineers, India, Tripura State Center.

Training

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

Procurement of instruments has been started for setting up of Bio-Chemistry lab.

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 14(fourteen) 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.



Structural Engineering Laboratory



Geotechnical Engineering Laboratory



Environmental Engineering Laboratory



Solid Mechanics Laboratory



Water Resources Engineering Laboratory

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:

Sl. No.	Name of the Laboratories	Available Floor Area (sq. m)	Maximum Batch Size	No. of Experiments			
				Prescribed		Conducted	
				U.G.	P.G.	U.G.	P.G.
1	Geotechnical Engineering	139.00	20	16	18	16	18
2	Structural Engineering	130.64	20	25	13	25	13
3	Concrete	100.00	20	16	8	16	8
4	Transportation Engineering	207.68	20	09	10	09	10
5	Environmental Engineering	207.68	20	17	21	17	21
6	Solid Mechanics	70.00	20	07	06	07	06
7	Surveying	100.00	20	07	--	07	--
8	Engineering Geology	107.68	20	06	--	06	--
9	Civil Engineering Computer	70.00	20	05	--	05	--
10	Water Resources Engineering	207.68	20	11	06	11	06
11	Civil Engineering Drawing	60.00	20	06	--	06	--
12	Hydraulics	100.00	20	11	--	11	--

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. Mrinmoy Majumder	5 day Coordinator's Workshop on "Environment Science" IIT Bombay, Powai, Mumbai, India	25-29 March 2015
Symposia:			

1	Dr. Mrinmoy Majumder	Improving Transition Rate of Students in TEQIP Institution, CET, Bhubaneswar, India	27 th August 2014
Conference:			
1	Dr. Manish Pal	WASET 2014	25-26 Dec' 14
2	Dipankar Sarkar	WASET 2014	25-26 Dec' 14
3	Dr. Mrinmoy Majumder	International Conference on Application of Mathematical Science, University of Abu Dhabi, Abu Dhabi, UAE.	27-31 Dec, 2015
4	Dr. Rama Debbarma (Presented as a Key .note Speaker)	Rama Debbarma and Subrata Chakraborty(2014), "Tuned liquid column damper in seismic vibration control considering random parameters: A Reliability based approached", Structural Engineering Convention-2014(SEC-2014), 22-24 th Dec., IIT Delhi. Springer Publication.	22 nd -24 th Dec.; 2014
5	Dr. Rama Debbarma (Presented)	Rama Debbarma and Sanjoy Hajari (2014), "Vibration control of structures with multiple tuned mass dampers for different earthquake considering different types of soil", 2nd Int. Conf. on Advances in Civil Engineering, (ICACE-2014), 26-28 th Dec., 2014, CUET, Chittagong, Bangladesh., 456-463.	26-28 th Dec., 2014,
6	Udit S. Hiray and Rama Debbarma	Udit S. Hiray and Rama Debbarma (2014), "Influence of seismic zone factor on percentage of reinforcement and storey displacement in a R. C framed structure", Pro. of 3 rd Int. Conference on Advance Trends in Engineering Technology and Research" ,ICATETR-2014, 22 -24 th Dec., 273-280.	22 -24 th Dec., 2014
7	Hiray Udit and Dr. Rama Debbarma	Hiray Udit and Rama Debbarma (2015), "Beneficial effects of brick masonry infill walls on seismic performance of a RC frame building and variation in percentage of reinforcement for various seismic zones". Pro. of Int. Conf. on Sustainable Energy and Built Environment (ICESE-2015) organized by VIT University and ASEC India Section, 12-13 th March, 47-53.	12-13 th March, 2015

Visits Abroad by Faculty:

Sl. No.	Name of Faculty	Country Visited	Date	Purpose of Visit
1	Dr. Manish Pal	Dubai, UAE	25-26 Dec' 2014	Paper presentation
2	Dipankar Sarkar	Dubai, UAE	25-26 Dec' 2014	Paper presentation
3	Dr. Mrinmoy Majumder	United Arab Emirates	27-31 Dec, 2015	Conference

4	Dr.Rama Debbarma	Bangladesh	26 th – 28 th Dec.'2014	To present the research paper 2nd Int. Conf. on Advances in Civil Engineering, (ICACE-2014), 26-28 th Dec.,2014, CUET, Chittagong, Bangladesh.,
5	Dr. Ratul Das	Chittagong, Bangladesh	26 –28 Dec, 2014	'A stream-network approach for hydrological study of a catchment'. ICACE-2014,

Honours and Awards obtained:

Sl. No.	Name of Faculty	Name of Award	Awarded by	Award For	Date
1	Dr.Rama Debbarma	Session's Best Paper Award	3 rd Int. Conference on Advance Trends in Engineering Technology and Research" ,ICATETR-2014.	Research Paper	23 rd Dec.'2014

Fellowships of Academics and Professional Societies:

Sl. No.	Name of Faculty	Level	Year
ISTE / CSI and others			
1	Dr.Mrinmoy Majumder	Member of International Water Association	2015
2	Dr.Rama Debbarma	M. ASCE(ID:9830200)	2014

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.

6.6 Research and Consultancy:

The department is engaged in performing various testing related to the PMGSY project associated with NBCE, CPWD and BRO. Faculties are engaged in research works and publishing research papers in different national and international journals.

Industrial Consultancy:

Sl. No.	Name of the Faculty	Title	Industry	Amount (Rs.)
1	Sri Gopinandan Dey	Mix Design of Concrete	M/s. M. P. Khaitan	16,545 .00
2	Dr. Sanjay Paul, Sri Deb Dulal Tripura	Miscellaneous	VNR Infrastructure Ltd.	28,090 .00
3	Sri Gopinandan Dey,Dr. Rajib Saha	Mix Design of Concrete	P.W.D.	16,854 .00

Sl. No.	Name of the Faculty	Title	Industry	Amount (Rs.)
4	Sri Gopinandan Dey, Dr. Rajib Saha	Mix Design of Concrete	Bridge & Roof Co. Ltd.	16,854 .00
5	Dr. Sujit Kumar Pal, Dr. Manish Pal, Dr. Sanjay Paul, Sri Gopinandan Dey, Dr. Rajib Saha, Sri Joyanta Pal, Sri Deb Dulal Tripura	Miscellaneous	P.W.D.	55,506 .00
6	Sri Gopinandan Dey, Dr. Rajib Saha, Sri Joyanta Pal	Mix Design of Concrete	NBCC Ltd.	33,708 .00
7	Dr. Sujit Kumar Pal, Dr. Manish Pal, Dr. Sanjay Paul, Sri Gopinandan Dey, Dr. Rajib Saha, Sri Joyanta Pal, Sri Deb Dulal Tripura	Mix Design of Concrete	IL & FS Ltd.	16,854 .00
8	Dr. Sujit Kumar Pal, Dr. Manish Pal, Dr. Sanjay Paul, Sri Gopinandan Dey, Dr. Rajib Saha, Sri Joyanta Pal, Sri Deb Dulal Tripura	Miscellaneous	NBCC Ltd.	50,562 .00
9	Dr. Sujit Kumar Pal, Dr. Manish Pal, Dr. Sanjay Paul, Sri Gopinandan Dey, Dr. Rajib Saha, Sri Joyanta Pal, Sri Deb Dulal Tripura	Mix Design of Concrete	THCB	16,854 .00
10	Sri Gopinandan Dey, Dr. Rajib Saha	Mix Design of Concrete	P.W.D.	33,708 .00
11	Sri Gopinandan Dey, Dr. Rajib Saha	Mix Design of Concrete	P.W.D.	16,854 .00
12	Dr. Sujit Kumar Pal, Dr. Manish Pal, Dr. Sanjay Paul, Sri Gopinandan Dey, Dr. Rajib Saha, Sri Joyanta Pal, Sri14 Deb Dulal Tripura	Miscellaneous	HSCL Ltd.	50,562 .00
13	Sri Deb Dulal Tripura	Mix Design of Concrete	Estate-NITA	16,854 .00
14	Sri Deb Dulal Tripura	Mix Design of Concrete	Bridge & Roof Co. Ltd.	16,854 .00
15	Sri Deb Dulal Tripura	Miscellaneous	N.F. Railway	50,562 .00
16	Sri Gopinandan Dey, Dr. Rajib Saha	Mix Design of Concrete	NBCC	16,854 .00
17	Dr. Sanjay Paul, Dr. Rajib Saha, Sri Joyanta Pal	Miscellaneous	BSNL	50,562 .00
18	Dr. Rama Debbarma, Dr. Sanjay Paul, Sri Deb Dulal Tripura	Miscellaneous	M/s. S.K. Das Const Co.	56,180 .00
19	Dr. Sanjay Paul, Sri Gopinandan Dey	Miscellaneous	P.W.D.	50,562 .00
20	Sri Gopinandan Dey, Dr. Rajib	Mix Design of	P.W.D.	16,854 .00

Sl. No.	Name of the Faculty	Title	Industry	Amount (Rs.)
	Saha	Concrete		
21	Dr. Sanjay Paul, Sri Gopinandan Dey	Mix Design of Concrete	P.W.D.	16,854 .00
22	Dr. Sima Ghosh, Sri Gopinandan Dey,	Mix Design of Concrete	P.W.D.	16,854 .00
23	Dr. Partha Pratim Sarkar, Sri Deb Dulal Tripura	Mix Design of Concrete	Tripura Dev. Corp.	16,854 .00
24	Sri Gopinandan Dey, Sri Deb Dulal Tripura	Mix Design of Concrete	NBCC Ltd.	16,854 .00
25	Dr. Rama Debbarma, Dr. Sanjay Paul, Sri Deb Dulal Tripura	Mix Design of Concrete	P.W.D.	16,854 .00
26	Dr. Sima Ghosh, Sri Gopinandan Dey	Mix Design of Concrete	NCC LTD.	33,708 .00
27	Dr. Rajib Saha, Dr. Partha Pratim Sarkar	Mix Design of Concrete	IL & FS	16,854 .00
28	Sri Deb Dulal Tripura	Mix Design of Concrete	NBCC Ltd.	16,854 .00
29	Dr. Sima Ghosh, Sri Gopinandan Dey	Mix Design of Concrete	P.W.D.	16,854 .00
30	Dr. Sanjay Paul, Dr. Partha Pratim Sarkar	Mix Design of Concrete	SIPMIU	33,708 .00
31	Dr. Partha Pratim Sarkar, Sri Deb Dulal Tripura	Mix Design of Concrete	NBCC Ltd.	16,854 .00
32	Dr. Sanjay Paul, Dr. Partha Pratim Sarkar	Miscellaneous	P.W.D.	67,416 .00
33	Dr. Sanjay Paul, Sri Deb Dulal Tripura	Mix Design of Concrete	P.W.D.	16,854 .00
34	Dr. Sanjay Paul, Sri Deb Dulal Tripura	Mix Design of Concrete	P.W.D.	33,708 .00
35	Sri Deb Dulal Tripura	Mix Design of Concrete	P.W.D.	33,708 .00
36	Sri Deb Dulal Tripura, Sri Partha Pratim Sarkar, Sri Dipankar Sarkar	Mix Design of Concrete	GREF	16,854 .00
TOTAL				10,15,875 .00

Research Publications:

Total No. of papers published in Refereed International Journals : 09
 Total No. Of papers presented in National Conference : 01
 Total No. Of papers presented in International Conferences : 08
 Total No. of Book Published : 06

In Refereed International Journals:

Name of the Authors published in National Journals	Title of the Journals	Date of publication of the paper	issue/ Volume No./ Page No.
Dr. Manish Pal & Dipankar Sarkar	WASET 2014 Dubai, UAE	25-26 Dec' 2014	
Dr. Manish Pal & Kaberi Majumder	WASET 2014 Dubai, UAE	25-26 Dec' 2014	
A Debnath, M Majumder, M Pal	Water Resources Management, 1-13	16/01/2015	29(6)
Debasree Purkayastha, Mrinmoy Majumder, Sumanta Chakrabarti	Pollution, 175-191	Spring 2015	Volume 1(2015)
Rama Debbarma and Subrata Chakraborty	"Robust design of liquid column vibration absorber in seismic vibration mitigation considering random system parameters", Structural Engineering and Mechanics, 53(6), 1127-1141.	2015	53(6), 1127-1141.
Subrata Chakraborty and Rama Debbarma	"Robust optimum design of tuned liquid column damper in seismic vibration control of structures under uncertain bounded system parameters". Structure and Infrastructure Engineering, Taylor and Francies, DOI: 10.1080/15732479.2015.1031142	2015	DOI: 10.1080/15732479.2015.1031142
Avishek Saha bhaumik and Rama Debbarma	"Seismic Response Mitigation of structures using base isolation along with tuned mass damper". International Journal of Research Engineering and Advanced Technology, 3(2), 52-60.	2015	3(2), 52-60.
Dr. Ratul Das	"Impact of urbanization on rainfall-runoff response and an integrated approach for urban storm water drainage systems of central Agartala-a case study." International Journal of Environmental Engineering (IJEE), IRED Scientific Publishing.	2014	ISSN : 2374-1724 •
Dr. Ratul Das	"Hydrological modeling of a catchment for surface runoff computations using soil conservation service (SCS) curve number (CN) combined with Muskingum routing techniques." International Journal of Structure and Civil Engineering Research,	2014	ISSN 2319 – 6009, vol.3. No.3, August 2014

In Proceedings of National Conference:

Name of the Conference	Place of the Conference	Name of the Participants	Date/Duration
Indian Geotechnical Conference (IGC) - 2014	Kakinada	Chayan Bhaumik & Sanjay Paul	18th to 20th December, 2014

In Proceedings of International Conference:

Name of the Conference	Place of the Conference	Name of the Participants	Date/Duration
3 rd International Conference on Application of Mathematical Science	Abu Dhabi	Mrinmoy Majumder, Apu Kumar Saha	27-31 Dec 2014
17th International Conference on Fuzzy Set Theory and Applications	Paris	Apu Kumar Saha, Mrinmoy Majumder	23-24 Jan 2015
17 th International Conference on Energy and Power Engineering	Paris	Apu Kumar Saha, Mrinmoy Majumder	23-24 Jan 2015
Rama Debbarma and Subrata Chakraborty(2014), "Tuned liquid column damper in seismic vibration control considering random parameters: A Reliability based approach", Proc. of Advances in Structural Engineering, Vol.II Page No. 1491-1504. Springer Publication.	IIT Delhi Structural Engineering Convention-2014(SEC-2014)	Dr. Rama Debbarma	22-24 th Dec.'2014
Rama Debbarma and Sanjoy Hajari (2014), "Vibration control of structures with multiple tuned mass dampers for different earthquake considering different types of soil", Proc. of 2nd Int. Conf. on Advances in Civil Engineering, (ICACE-2014), 26-28 th Dec.,2014, CUET, Chittagong, Bangladesh., 456-463.	CUET, Chittagong, Bangladesh	Dr. Rama Debbarma	26-28 th Dec.'2014
Udit S. Hiray and Rama Debbarma (2014), "Influence of seismic zone factor on percentage of reinforcement and storey displacement in a R. C framed structure", Proc. of 3 rd Int. Conference on Advance Trends in Engineering Technology and Research" ,ICATETR-2014, 22 -24 th Dec., 273-280.	Bal Krishna Institute of Technology, Ranpur, Kota, Rajasthan.	Udit S. Hiray	22-24 th Dec.'2014
Hiray Udit and Rama Debbarma (2015), "Beneficial effects of brick masonry infill walls on seismic	VIT University	Hiray Udit	12-13 th March, 47-

performance of a RC frame building and variation in percentage of reinforcement for various seismic zones". Proc. of Int. Conf. on Sustainable Energy and Built Environment (ICESE-2015) organized by VIT University and ASEC India Section, 12-13 th March, 47-53.			53.
'A stream-network approach for hydrological study of a catchment'. ICACE-2014,	Chittagong, Bangladesh	Dr. Ratul Das	26 –28 Dec, 2014, CUET,

Book Published:

Name of the Authors Published	Title of the Books	Date of publication of the Book
Mrinmoy Majumder	Impact of Urbanization on Water Shortage in Face of Climatic Aberrations	Apr 28, 2015
Mrinmoy Majumder	Minimization of Climatic Vulnerabilities on Mini-hydro Power Plants: Fuzzy AHP, Fuzzy ANP Techniques and Neuro-Genetic Model Approach	Oct 6, 2015
Uttam Roy and Mrinmoy Majumder	Impact of Climate Change on Small Scale Hydro-turbine Selections	Oct 19, 2015
Mrinmoy Majumder and Apu K. Saha	Impact of Climate Change on Hydro-Energy Potential: A MCDM and Neural Network Approach	Oct 6, 2015
Mrinmoy Majumder and Apu K. Saha	Feasibility Model of Solar Energy Plants by ANN and MCDM Techniques	Oct 6, 2015
Uttam Roy and Mrinmoy Majumder	Vulnerability of Watersheds to Climate Change assessed by Neural Network and Analytical Hierarchy Process	Nov 4, 2015

Distinguished Visitors to the Departments:

Sl. No.	Name of the Visitors and Designation	Date of Visit	Purpose of Visit
1	Prof. (Dr.) D.K. Baidya, Professor, I.I.T. Kharagpur	10th – 12th May, 2015	To serve as an External Examiner of 4th Semester, M.Tech. (Geotechnical Engg.) under Civil Engg. Deptt.
2	Prof. (Dr.) Satyabrata Choudhury, Professor, NIT Silchar	10th – 12th May, 2015	To serve as an External Examiner of 4th Semester, M.Tech. (Structural Engg.) under Civil Engg. Deptt.
3	Prof. (Dr.) Bhargab Maitra, Professor, I.I.T. Kharagpur	9 th – 12 th May, 2015	To serve as an External Examiner of 4th Semester, M.Tech. (Transportation Engg.) under Civil Engg. Deptt.
4	Prof. (Dr.) Somnath Mukherjee, Professor, Jadavpur University	10 th -12 th May, 2015	To serve as an External Examiner of 4th Semester, M.Tech. (Environmental & Hydro Informatics Engg.) under Civil Engg. Deptt.

5	Prof. (Dr.) Kalyan Kr. Bhar, Professor, IISER, Kolkata	12 th – 13 th May, 2015	To serve as an External Examiner of 4th Semester, M.Tech. (Water Resources Engg.) under Civil Engg. Deptt.
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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 a nodal department of the State Disaster Management Programme.
- II. STA in PMGSY.

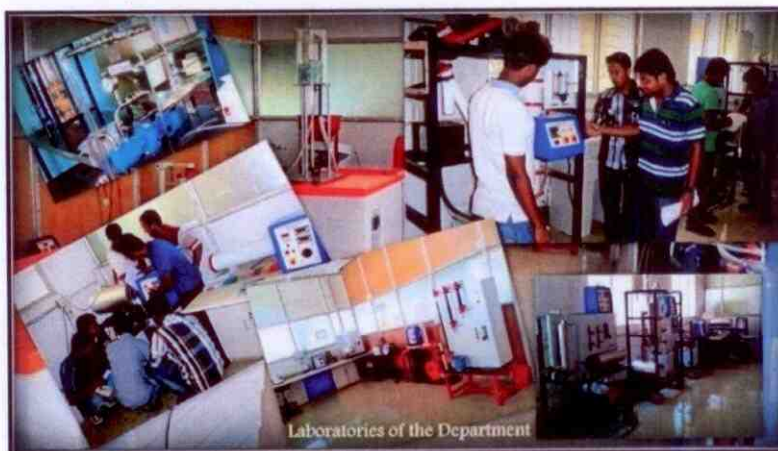
7.0 CHEMICAL ENGINEERING DEPARTMENT

7.1 Introduction:

Department of Chemical Engineering along with its modern laboratory facilities offers an excellent technical support to the students and the faculty members to enrich their knowledge sharing ability and technical jargons. With sufficient propulsive and proactive faculty members who are rendering their best services to build up the real educational atmosphere and academic journey, research laboratories are being developed according to the present cutting edge research activities. However, the department continues to thrive with more talented and vibrant faculty members to serve the institute, as well as the society by exploring various research works with academics. Presently the department is also mentoring the Bio Engineering Department when, Mrs Soma Nag is acting as the HOD for the Chemical Engineering and Dr. T.K.Bandyopadhyay as HOD for the Department of Bio Engineering.



Poised at the crucial interface between its new academic journey and simultaneous development, the Department of Chemical Engineering recently formed an Industrial Advisory Committee to mobilise the uninterrupted industry-academic collaboration that propels skills for technology entrepreneurship, project management, on-time affirmative action towards decision making among the students. Several seminars and workshops have been hosted by the Department of Chemical Engineering throughout its journey to patronize the knowledge and information exploration. Eminent scientists, engineers and entrepreneurs have enlightened the faculty and the students with their lectures and ideas during these seminars/workshops funded by TEQIP, TIFAC. Faculty members are encouraged to attend abroad workshops/seminars to enrich their multi-ethnic knowledge through intra and inter scientific fraternity interactions. Presently, the department is furnished with more than hundred peer reviewed journal, conference publications/proceedings and several book chapters.



Department had framed the course curriculum based on the need of today's industries and updates the entire course curriculum on a regular basis by organizing workshops, which are attended by the academicians and technologists from IITs, NITs and institutes of national repute. The students are groomed to compete with the best with respect to knowledge and ability in the business and face the modern challenges. Currently, department is looking for research activities in the field of Biofuels, Systems Biology, Nanotechnology, Computational fluid dynamics, Environmental engineering and waste treatment, Adsorption, Polymer and rubber, Catalytic reactor, Membrane separation, Membrane distillation, Liquid membrane, Artificial intelligence in chemical engineering from the exiting faculty members. Faculty members Mrs. S. Nag, Dr. K. Gayen, Dr. S. Ray and Dr. T. K. Bandyopadhyay had initiated their research work after being funded by several funding authorities such as DBT, DST, AICTE, TIFAC.



Along with the academic curriculum of the department, the students are also involved in several cultural, technical and sports events. Every year students from the department of Chemical Engineering actively participate in Moksha and Aayam, the cultural and technical fests of NITA, respectively and receive hearty appreciation. Several students attended Reflux 1.0, the tech-fest of Department of Chemical Engineering, IIT Guwahati and were awarded for their participation in a couple of events. Recently Department have also formed the Association of Chemical Engineering Students (ACES) where the students intend to hold events to nurture the all round development of themselves through several activities such as Group Discussions, Seminars, Quizzes and Aptitude sessions, Industrial Visits etc. Presently, the departmental students are employed in SHARP, Vedanta, IBM, Infosys, mu-sigma etc.

The mission of the Chemical Engineering Department is to create an environment that will foster the growth of intellectual and innovative students, their professional practices, lifelong learning, and contributing to the advancement of scientific and technological basis for chemical engineering practice, especially the advancement of north-eastern region of India utilizing its natural resources. Moreover, as a part of the NIT Agartala, the Department of Chemical Engineering has an enormous responsibility to provide a nationally or in a wider sense an internationally competent infrastructure to introduce the students with the reality based applications of different chemical process. The intention will be to develop integrated theoretical and analytical facilities for the students/researchers of the department as well to forward their footsteps towards a worthy contribution to the knowledge based outcomes from the people of research fraternity. The Department has a vision to focus on the outcome based workshops that help the students, scholars, faculty members to develop their technical and interpersonal skills.

7.2 Academic Programme:

The department offers courses for Under Graduate programme leading to B. Tech degree under Chemical Engineering (4 years), M.Tech degree in Chemical Engineering (2 years) and doctoral degree.

7.3 Lab Facilities:

Sl. No.	Name of the Laboratories	Available Floor Area(m ²)	Maximum Batch Size	No. of Experiments		Recurring Expenditure (Allotted per year)
				Prescribed	Conducted	
1	Fluid Mechanics Laboratory	35.5	30	10	10	Rs. 10,000.00
2	Mechanical Operation Laboratory	35.5	30	10	10	Rs. 50,000.00
3	Heat Transfer Laboratory	35.5	30	10	10	Rs. 30,000.00
4	Mass Transfer Laboratory	35.5	30	10	08	Rs.1,00,000.00
5	Fuel & Combustion Laboratory	35.5	30	10	10	Rs. 1,00,000.00
6	Reaction Engg Laboratory	35.5	30	10	10	Rs. 50,000.00
7	Process Design Laboratory	50.0	60	10	10	Rs. 10,000.00
8	Environmental Engg Lab	35.5	30	10	10	Rs. 20,000.00

7.4 Faculty and their Activities:

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

Sl. No.	Co-ordinators	Title	Date
1	Soma Nag, Asst Prof & HOD, Jt Organizing Secretary and all other faculty members as Members of different committees	Thirtieth National convention and National seminar on Recent trends in Research, Developments and Innovations in Chemical Industries jointly organized by Institute of Engineers	NIT Agartala, 6-7 September, 2014, NIT Agartala

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	All faculty members	Thirtieth National Convention & Seminar on "Recent Trends in Research, development & Innovations in Chemical Industries"	NIT Agartala, 6-7 September, 2014, NIT Agartala
2	Dr L.M.Asheala	Environmental Studies	2-21 June 2015
3	Sudev Das	One Day Workshop/Seminar on Electronic System Design & Manufacturing (ESDM-2015)	
4	Sudev Das	28 th National Convention of Textile Engineer and National Seminar on "Technological Innovations, Design, and Sustainable Product Development in Handloom and Textile Industry"	
5	Dr. Ajay Kumar Manna	CHEMCON 2014	27.12.14 to 30.12.14
6	Aeshala, L.M	International Conference on Nano technology	19-22 February, 2015, Haldia, India.

Fellowships of Academics and Professional Societies:

Sl. No.	Name of Faculty	Level	Year
ISTE/ CSI and others			
1	Soma Nag	Member, IE(I)	1991
2	Dr.Tarun Kanti Bandhyopadhyaya	Member, IICChE	
3	Dr. Srimanta Ray	Canadian Association of Water Quality, Canada	2010
4	Dr. Kalyan Gayen	Member, IICChE, IE(I)	2012
5	Mr Bibhab Kumar Lodh	Member, IICChE, IE(I)	2012

7.5 Research and Consultancy:

Sponsored Research Projects:

Sl. No.	Title	Period	Funding Agency	Amount (in lakhs)	Co-ordinators
1	RPS on Development an alternative route for stabilizing and process of natural rubber latex	2011-14	AICTE	16.00	S.Nag and Srmanta Ray
2	Developing an off-grid hybrid power system	2012-2014	AICTE	17.00	Dr. S. Ray (Co-PI)
3	Isolation and characterization of micro-organisms/ micro-algae from north east region	2013-16	DBT	68.9	Dr K Gayen (PI)

	and eastern Coal mines for bio-sequestration of CO ₂ and its utilization towards generation of bio-fuel				
4	Engineering Zymomonas mobilis for the efficient production of biofuels from lignocellulosic biomass	2011-14	DBT	16.00	Dr K Gayen (Co-PI)
5	Identification and characterization of intracellular and extracellular cues for phase shifting from acidogenesis to soventogenesis in Clostridium acetobutylicum	2014-2017	Department of Biotechnology (DBT), India	60.39 Lakhs	Dr. Kalyan Gayen, PI

Research Publications:

Total No. of papers published in Refereed International Journals : 4
 Total No. of papers presented in Conference/Seminar : 6

Distinguished Visitors to the Departments:

Sl. No.	Name of the Visitors and Designation	Date of Visit	Purpose of Visit
1.	Padmabibhusan Prof M.M.Sarma, Emeritus Professor of Eminence, ICT, Mumbai	8.9.2014	As an expert speaker
2.	Prof J.D.Jadav, UDCT	6.9.2014	As an expert speaker
3.	Dr Ravichandra P, Adjunct Research Fellow, Department of Chemical Engg, Monash University, Australia	4 th May to 5 th May 2014	As Guest speaker
4.	Prof KDP Nigam, Professor Emeritus, IIT Delhi	12.9.2014	As felicitator
5.	Mr D.Z.Badwaik, Dt G.M, ONGC	11.9.2014	As expert speaker
6.	Professor S.P. Chaurasia Department of Chemical Engineering, MNIT, Jaipur	20-22.11.2014	As Mentor

7.6 Industrial Consultancy and Sponsored Research:

Environmental Engineering
 Adsorption
 Computational Fluid Dynamics
 Multiphase Flow
 Petroleum and petrochemical Engineering
 Bio fuels
 Systems Biology
 Fermentation Technology
 Catalytic Reactor

8.0 CHEMISTRY DEPARTMENT

8.1 Introduction:

Department was started since the inception of the Institute. It has sufficient infrastructure to run the under graduate and post graduate courses including research work. Faculty members of the department are actively engaged in the teaching, research and other administrative responsibilities as assigned by the institute.

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 Lab Facilities:

B.Tech laboratory has been well developed with necessary equipments and furniture. Since Integrated MSc course in Chemistry has started, the department has developed separate laboratory for B.Tech, BS-MS and MSc courses with well furnished furniture. The laboratory is equipped with UV-Visible, Infrared, water purification system, Cyclic voltameters, Differential Scanning Calorimeter, Muffle furnace, Polarizing microscope and other necessary instruments for running B.Tech, BS-MS and MSc programs.

S.No	Name of the laboratories	Maximum batch size	Weekly hours requires as per curricula	No. of experiments		Recurring expenditure (Allotted per year)
				Prescribed	Conducted	
1.	Lab-1(UG) (B.Tech 1 st Sem.)	35	28	12	08	1.2 Lakhs
2.	Lab-2(UG) (B.Tech. 1 st Sem	35	28	12	08	1.2 Lakhs
3.	PG and Research Lab	NA	-	-	-	2 Lakhs
4.	Instrument Lab	NA	-	-	-	0.4 Lakhs
5.	Organic Chemistry Lab	Under developing	-	-	-	-
6.	Inorganic Chemistry Lab	Under developing	-	-	-	-
7.	Physical Chemistry	Under	-	-	-	-

	Lab	developing				
8.	Conference/ Seminar room	NA	-	-	-	-

8.4 Faculty and their Activities:

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

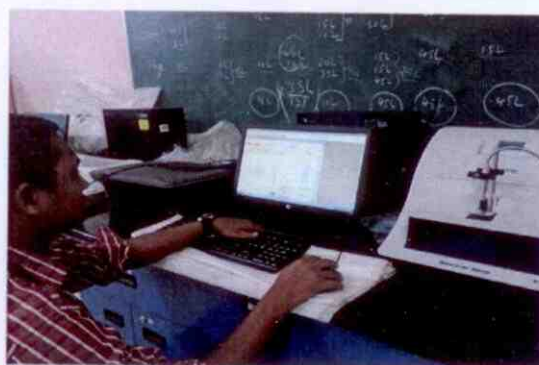
	Name of Faculty	Title	Period
National	Dr. Saroj Kumar Das	30 th National Conference of Chemical Engineers and National seminars on Recent Trends in Research, Development and Innovations in Chemical Industries.	05-07 September, 2014
	Dr. Tarun Kumar Misra	30 th National Conference of Chemical Engineers and National seminars on Recent Trends in Research, Development and Innovations in Chemical Industries.	05-07 September, 2014
	Dr. Mitali Saha	1. 30 th National Conference of Chemical Engineers and National Seminars on Recent Trends in Research, Development and Innovations in Chemical Industries. 2. National Conference on 'Frontiers at the Chemistry – Allied Sciences Interface' (FCASI-2015)	05-07 September, 2014 March 13-14, 2015
	Dr. Keisham Surjit Singh	1. National Conference on Frontier Chemical Science 2. 30 th National Conference of Chemical Engineers and National seminars on Recent Trends in Research , Development and Innovations in Chemical Industries.	13-14 March, 2015 05-07 September, 2014
International	Dr. Keisham Surjit Singh	2 nd International Conference on Global trends in Pure and Applied Chemical Sciences	3-4, October, 2014

Visits Abroad by Faculty:

Sl.No.	Name of Faculty	Country visited	Date	Purpose of visit
1.	Dr. Keisham Surjit Singh	Hong Kong, China	3-4, October, 2014	2 nd International Conference on Global trends in Pure and Applied Chemical Sciences

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. T. 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.	Mr. Mithun Chakraborty	Tripura Chemical Society	Life Member	2012





Departmental Lab facilities

8.5 Research and Consultancy : Sponsored Research Projects:

Sl. No.	Title	Period	Funding Agency	Amount (in lacs)	Co-ordinators
1.	Design an efficient method for the synthesis of some RNA nucleobases	2012-15	DBT	47.37	Dr.Subrata Das and Dr. Saroj Kr. Das
2.	Metal nanoparticle with a knack for anion/molecular recognition: Synthesis, water dispersion, sensing and bio-conjugation	2014-16	DST-Nanomission	40,73,246	T.K.Misra
3.	Synthesis, racterization and structural assessment of organot in (IV) compounds and copper (II) complexes of oxygen and nitrogen donor ligands derived from amino acid and benzoic acid related systems.	2010-14	DST	19,06,600/-	Dr. Keisham Surjit Singh
4.	Nano material based solar cell.	2012-15	CPRI	25,00000/-	Dr. Mitali Saha

Research Publications:

Total No. of papers published in Refereed National Journals : **Six**
 Total No. of papers published in Refereed International Journals : **Seven**
 Total No. of papers presented in International Conferences : **Two**

In Refereed National Journals:

Name of the Authors published in National Journals	Title of Journals	Date of publication of the paper	Issue/Volume no./Page no.
Srijita Basumallick	Journal of Advanced Chemical Sciences.	Accepted 23 February 2015	1/2/ 53-5.

Tarun Kumar Misra, Diptanu Debnath and Tse-Hsien Chen	Indian Chemical Society	May 2014	91/ 835-844
Chayanika Debnath, Diptanu Debnath and Tarun Kumar Misra	Indian Chemical Society	January 2015	Accepted
Keisham Surjit Singh, Manojit Roy, Sanasam Sachika Devi, Chingakhom Brajakishor Singh.	Journal of the Indian Chemical Society	2015	Accepted
Keisham Surjit Singh, Sanasam Sachika Devi, Manojit Roy, W. Radhapiyari Devi	Journal of the Indian Chemical Society	May 2014	5/91/943-950
Subhadip Roy, Rupak Banik, Subrata Das, and Ashim Jyoti Thakur	Ind. Chem. Soc.	November 2014	91/ 2117-2125

In Refereed International Journals:

Name of the Authors published in International Journals	Title of Journals	Date of publication of the paper	Issue/Volume no./Page no.
Swapan Majumdar, Jhinuk De, Ajitesh Pal, Indra Ghosh, Ranendu K. Nath, Sandip Chowdhury, Dipanwita Roy Dilip K. Maiti	RSC Advances	February 2015	5/ 24681-24686
Subhadip Roy, Antonio Bauza, Rupak Banik, Suresh Chandra Biswas, Antonio Frontera, Subrata Das	Tetrahedron	August 2014	70/ 6931-6937
Rupak Banik, Subhadip Roy, Antonio Bauza, Antonio Frontera, Subrata Das	RSC Advances	January 2015	5/ 10826-10836
I. Sil Sarma, P. S. Ghosh, R. Banik and B. Dinda.	Chemistry of Natural Compound	2014	Accepted
Diptanu Debnath Subhadip Roy Bing-Han Li Chia-Her Lin Tarun Kumar Misra	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	29 December 2014	140/185-197
Manojit Roy, Sanasam Sachika Devi, Subhadip Roy, Chingakhom Brajakishor Singh, Keisham Surjit Singh.	Inorganica Chimica Acta	10 December 2014	426/89-98
Keisham Surjit Singh, Manojit Roy, Sanasam Sachika Devi, Chingakhom Brajakishor Singh	Main Group Chemistry	2014	Accepted

In Proceedings of National Conference:

Name of the conference	Place of the conference	Name of the participants	Date / Duration
New Advanced Horizons in Nanoscience and Nano technology(NanoSci'2014	IASST, Guwahati	Subhojit Das, Arun Chattopadhyay	20-21 Dec, 2014
102 nd Indian Science Congress	University of Mumbai	R. Banik, S. Roy, S. Das, A. Frontera	3-7 Jan, 2015.
30th National Convention of Chemical Engineers' "Recent trends in Research, Development and Innovations in Chemical Industries".	NIT Agartala,	Manojit Roy	5-7 September, 2014
Annual report of The Institution of Engineers (India).	NIT Agartala, Tripura.	Srijita Basumallick	September 5-7, 2014.
New advances and Horizons in nanoscience and nanotechnology.	IASST, Guwahati, Assam	Prasanta Sutradhar	20-21 st December, 2014.
World Science Congress, 4 th International Conference .	Jadavpur University, Kolkata, India.	Manojit Roy	16-18 December, 2014

In Proceedings of International Conference:

Name of the conference	Place of the conference	Name of the participants	Date / Duration
22nd Symposium on Chemical and Science Education- "Science Education Research and Education for Sustainable Development (ESD)	University of Bremen, Germany	Subhadip Roy, Rupak Banik and Subrata Das.	19-21 June, 2014.
2 nd International Conference on Global trends in Pure and Applied Chemical Sciences.	Hong Kong	Dr. Keisham Surjit Singh	3-4 October, 2014

Distinguished Visitors to the Departments: Three

Sl. No.	Name of the Visitors and Designation	Date of Visit	Purpose of Visit
1	Prof. P.K. Tripathy	29.04.14	Question Moderation
2	Prof. Tarashankar Paul	19.11.14	Question Moderation
3	Prof. Chittaranjan Singha	19.11.14	Question Moderation

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 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.



Department of Computer Science and Engineering

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 Lab Facilities :

Sl. No	Name of The laboratories	Maximum Batch Size	Weekly Hours Required As Per Curricula	No. of Experiments		Research Work Taken, If Any
				Prescribed	Conducted	
1	CC Lab	48	30	51	42	Oracle 11g, Dev C++, Turbo C
2	CP Lab	35	30	50	40	Dev C++, Turbo C
3	Hardware	10	10	13	12	Research

	Lab					done using 8085 Simulator
4	Software Engineernig Lab	10	10	20	17	Rational Rose software is used
5	System Lab	15	10	15	13	Research work done using simulation tools like ns2 and qualnet
6	Embedded System Lab	15	10			Research done using Vx Works
7	Analog and Digital Lab	10	10			Research done using NetSim
8	Artificial Intelligence Lab	10	10			Research done using CLIPS



Department of Computer Science and Engineering Lab

9.4 Faculty and their Activities:

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

Short Term Courses:

Sl. No.	Co-ordinators	Title	Period
1	Mr. Mrinal Kanti Debbarma	Computer Networks	30 th June to 05 th July 2014
		IPv6, Jointly organized by DOT, Govt. of India & CSED, NIT Agartala	19 th May, 2015

2	Mr. Swapan Debbarma	Cloud Computing	October 20-21, 2014
3	Mr. Suman Deb	2 Days National Workshop On Human Computer Interaction	February 13-14, 2015
4	Mr. Ashim Saha	Cyber Security	July 10 – 20, 2014

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

Workshop:

Sl. No.	Name of Faculty	Title	Period
1	Mr. Mrinal Kanti Debbarma	Coordinators' workshop of Computer Networking, IIT Bombay	May, 5th - 10th 2014
		Cyber Security	July, 10 th – 20 th , 2014
		TEQIP II Regional Workshop for Student, Faculty and Non-Teaching Staff Satisfaction Survey at 2nd Campus of Jadavpur University, Plot No. 8, Block LB, Sector-III, Salt Lake, Kolkata	September 25, 2014.
		2 days Workshop on Cloud Computing, NIT Agartala	October, 20th -21 st , 2014
		NATIONAL SEMINAR on E-Resources and E-Learning Challenges and Opportunities for Students, M.B.B College, Agartala	July 26 th & 27 th , 2014
		Human Computer Interaction	13-14 February, 2015
2	Mr. Swapan Debbarma	Cyber Security	July, 10 th – 20 th , 2014
3	Mr. Nikhil Debbarma	Cyber Security	July, 10 th – 20 th , 2014
4	Mr. Kunal Chakma	International Workshop on Machine Learning Algorithms and Data Analytics at Thapar University, Patiala, Punjab	June 3 to 13, 2014
5	Mrs. Smita Das	Two week ISTE workshop on Computer Programming Conducted by IIT Bombay.	20th May to 21st June 2014
6	Mr. Dwijen Rudrapal	Cyber Security	July, 10 th – 20 th , 2014
7	Mr. Anupam Jamatia	International Summer School on Machine Learning Algorithms and Data Analytics at Thapar University, Patiala	3-13 June 2014
		Eleventh International Conference on Natural Language Processing (ICON-2014), Goa, India	21st December 2014,
8	Mr. Tridib Debbarma	2 days Workshop on Cloud Computing , NIT Agartala	20-21 October, 2014
		Human Computer Interaction	13-14 February,

			2015
		IPv6	19 th May, 2015
9	Mrs. Moumita Majumder	Two Days National Workshop on Recent Advances of Applied Mathematics	20 th – 21 st September, 2014
		Cyber Security	July, 10 th – 20 th , 2014
		2 days Workshop on Cloud Computing , NIT Agartala	20-21 October, 2014
		Pedagogy for Effective use of ICT in Engineering Education	05th - 7th & 19th - 21st January 2015
		Human Computer Interaction	13-14 February, 2015
		IPv6	19 th May, 2015
10	Mrs. Lalita Kumari	Two Days National Workshop on Recent Advances of Applied Mathematics	20 th – 21 st September, 2014
		Cyber Security	July, 10 th – 20 th , 2014
		2 days Workshop on Cloud Computing , NIT Agartala	20-21 October, 2014
		Pedagogy for Effective use of ICT in Engineering Education	05th - 7th & 19th - 21st January 2015
		Human Computer Interaction	13-14 February, 2015
		IPv6	19 th May, 2015
11	Miss Sharmistha Majumder	TWO - WEEK ISTE Short Term Training Programme (STTP) on Pedagogy for Effective use of ICT in Engineering Education	5th to 31st January 2015.
		Two Week ISTE Main Workshop on Cyber Security	10th July to 20th July, 2014
		Two Week ISTE Main Workshop on Computer Programming	May 20 th to June 21 st , 2014
		2 Days National Workshop on Cloud Computing	October 20-21, 2014
		2 Days National Workshop on Human Computer Interaction	February 13 th -14 th 2015
		IPv6	19 th May, 2015
12	Mrs. Priyanka Sarkar	Two Days National Workshop on Recent Advances of Applied Mathematics	20 th – 21 st September, 2014
		Cyber Security	July, 10 th – 20 th , 2014
		2 days Workshop on Cloud Computing, NIT Agartala	20-21 October, 2014
		Pedagogy for Effective use of ICT in Engineering Education	05th - 7th & 19th - 21st January 2015
		Human Computer Interaction	13-14 February, 2015
		IPv6	19 th May, 2015
13	Mr. Jayanta Pal	Two Days National Workshop on Recent	20 th – 21 st

		Advances of Applied Mathematics	September, 2014
		Cyber Security	July, 10 th – 20 th , 2014
		2 days Workshop on Cloud Computing, NIT Agartala	20-21 October, 2014
		Pedagogy for Effective use of ICT in Engineering Education	05th - 7th & 19th - 21st January 2015
		Human Computer Interaction	13-14 February, 2015
		Research Challenges in Reversible and Quantum Computing at NIT Meghalaya, Shillong	19-20 March 2015.
		IPv6	19 th May, 2015
14	Mr. Dhrubojyoti Bhowmik	Two Days National Workshop on Recent Advances of Applied Mathematics	20 th – 21 st September, 2014
		Cyber Security	July, 10 th – 20 th , 2014
		2 days Workshop on Cloud Computing, NIT Agartala	20-21 October, 2014
		Pedagogy for Effective use of ICT in Engineering Education	05th - 7th & 19th - 21st January 2015
		Human Computer Interaction	13-14 February, 2015
		Research Challenges in Reversible and Quantum Computing at NIT Meghalaya, Shillong	19-20 March 2015.
		IPv6	19 th May, 2015
15	Mr. Pathasarathi De	Two Days National Workshop on Recent Advances of Applied Mathematics	20 th – 21 st September, 2014
		Cyber Security	July, 10 th – 20 th , 2014
		2 days Workshop on Cloud Computing, NIT Agartala	20-21 October, 2014
		Pedagogy for Effective use of ICT in Engineering Education	05th - 7th & 19th - 21st January 2015
		Human Computer Interaction	13-14 February, 2015
		IPv6	19 th May, 2015
16	Mr. Prashant Bhardwaj	Two Days National Workshop on Recent Advances of Applied Mathematics	20 th – 21 st September, 2014
		2 days Workshop on Cloud Computing, NIT Agartala	20-21 October, 2014
		Pedagogy for Effective use of ICT in Engineering Education	05th - 7 th & 19th - 21st January 2015
		Human Computer Interaction	13-14 February, 2015
		IPv6	19 th May, 2015
17	Mr. Kishore Kumar Dhar	Two Days National Workshop on Recent Advances of Applied Mathematics	20 th – 21 st September, 2014

		2 days Workshop on Cloud Computing, NIT Agartala	20-21 October, 2014
		Pedagogy for Effective use of ICT in Engineering Education	05th - 7th & 19th - 21st January 2015
		Human Computer Interaction	13-14 February, 2015
		IPv6	19 th May, 2015
18	Miss Tannistha Pal	Activities of Society for Applied Microwave Electronics Engineering and Research	5 th July, 2014
		Two Days National Workshop on Recent Advances of Applied Mathematics	20 th – 21 st September, 2014
		2 days Workshop on Cloud Computing, NIT Agartala	20-21 October, 2014
		Pedagogy For Effective Use Of ICT In Engineering Education	05th - 7th & 19th - 21st January 2015
		Fundamentals of Image Analysis & Pattern Recognition	6 th -8 th Feb, 2015
		Human Computer Interaction	13-14 February, 2015
		IPv6	19 th May, 2015
19	Miss Purbani Kar	Two Days National Workshop on Recent Advances of Applied Mathematics	20 th – 21 st September, 2014
		2 days Workshop on Cloud Computing, NIT Agartala	20-21 October, 2014
		Pedagogy for Effective use of ICT in Engineering Education	05th - 7 th & 19th - 21st January 2015
		Human Computer Interaction	13-14 February, 2015
		IPv6	19 th May, 2015
20	Mr. Rajib Chowdhuri	Two Days National Workshop on Recent Advances of Applied Mathematics	20 th – 21 st September, 2014
		2 days Workshop on Cloud Computing, NIT Agartala	20-21 October, 2014
		Pedagogy for Effective use of ICT in Engineering Education	05th - 7th & 19th - 21st January 2015
		Human Computer Interaction	13-14 February, 2015
		IPv6	19 th May, 2015
21	Mr. Tamal Biswas	Two Days National Workshop on Recent Advances of Applied Mathematics	20 th – 21 st September, 2014
		2 days Workshop on Cloud Computing, NIT Agartala	20-21 October, 2014
		Pedagogy for Effective use of ICT in Engineering Education	05th - 7th & 19th - 21st January 2015
		Human Computer Interaction	13-14 February, 2015
		IPv6	19 th May, 2015
22	Mr. Sanjib Debnath	Two Days National Workshop on Recent Advances of Applied Mathematics	20 th – 21 st September, 2014
		2 days Workshop on Cloud Computing,	20-21 October,

	NIT Agartala	2014
	Pedagogy for Effective use of ICT in Engineering Education	05th - 7th & 19th - 21st January 2015
	Human Computer Interaction	13-14 February, 2015
	IPv6	19 th May, 2015

International Conference:

Sl. No.	Name of Faculty	Title	Period
1	Mr. Mrinal Kanti Debbarma	M. K DebBarma, S. K. Sen, Sudipta Roy, "DVRA-SN: Neighbour Based Distance Vector Routing Protocols for Mobile Ad Hoc Networks", 2014 International Conference on Advances in Computing, Communication and Information Technology - CCIT Page-41-44, ISBN no. 978-1-63248-005-7. doi: 10.15224/978-163248-005-7-24	2014, November 16-17, 2014, Birmingham University, London, United Kingdom,
		M. K DebBarma, J. Debbarma, S. K. Sen, Sudipta Roy, "A New Approach to overcome the weakness in DVR Protocol Based on Component Neighbour in MANET", 2014 IEEE International Conference on Soft Computing & Machine Intelligence (ISCMi 2014), Page-146-149.	September 26-27, 2014, New Delhi.
		M.K Debbarma, Nikhil Debbarma, Debasish Deb, Parthasarathi De, "Performance Analysis of Network Monitoring Tool through Automat Software Engineering Approach", SPACES-2015, Dept of ECE, K L UNIVERSITY .IEEE xplore.	2 nd -3 rd Jan ,2015
2	Mr. Nikhil Debbarma	Mrinal Kanti Debbarma, Nikhil Debbarma, Debasish Deb, Parthasarathi De, "Performance Analysis of Network Monitoring Tool through Automat Software Engineering Approach", SPACES-2015, Dept of ECE, K L UNIVERSITY .IEEE xplore.	2 nd -3 rd Jan ,2015
3	Mr. Kunal Chakma	K. Chakma, Named Entity Detection from Tweets on Cricket in Proceedings of the 1st Workshop on Language Technologies for Indian Social Media (SOCIAL-INDIA), pages 9-15, Goa, India, Eleventh International Conference on Natural Language Processing (ICON-2014), Goa, India;	21 st December, 2014
		K. Chakma, Amitava Das, Revisiting Automatic Transliteration Problem for	21st December 2014

		Code-Mixed Romanized Indian Social Media Text Conference: Proceedings of the 1st Workshop on Language Technologies for Indian Social Media (SOCIAL-INDIA), pages 42–48, Goa, India. Eleventh International Conference on Natural Language Processing (ICON-2014), At Goa, India	
		K.Chakma, A .Jamatia, T. Debbarma, An Analysis and Improvement of Probe-Based Algorithm for Distributed Deadlock Detection in International Conference on Computer and Software Modelling (ICCSM) in Bangkok, Thailand from LNSE 2015 Vol.3(4): 285-289 ISSN: 2301-3559 DOI: 10.7763/LNSE.2015.V3.205	October 10-12, 2014,
		Pumima Singhal, Amit Kumar, Upendra Ghintala, Kunal Chakma, Extended Level Real Time Scheduling Framework Using a Generalized Non-Real Time Platform in Advances in Computing, Communications and Informatics (ICACCI, 2014 International Conference , Pages 1279 - 1284, Print ISBN: 978-1-4799-3078-4, DOI:10.1109/ICACCI.2014.6968278 (IEEE publication)	24-27 Sept. 2014
		Muny Tamut, Kunal Chakma, A Hybrid Approach to Synchronization in Real Time Multiprocessor Systems in 2014 IEEE International Conference on Advanced Communication Control and Computing Technologies - ICACCCT, Ramanathapuram, Tamilnadu, India, Pages 1153-1157, Print ISBN: 978-1-4799-3913-8, DOI:10.1109/ICACCCT.2014.7019278 (IEEE publication)	May 8-10, 2014
4	Mr. Suman Deb	Dipanwita Debnath, Suman Deb, Subir Saha "A remote Data acquisition – real time asynchronous transaction –based on Android platform" International Conference on Nonlinear Dynamics and its Applications in Physical and Biological Sciences (CNDAPBS-14), Springer Special Issue.	2 nd -3 rd Jan ,2015
		Subarna Sinha, Suman Deb, "Depth vision based skeletal tracking evaluation for development of indoor elderly activity detection tool", ERCICA -2014, August,	August 01-02, 2014

		Elsevier Publications, ISBN: 9789351072607, pp 770-775.	
		Hillol Das, Ashim Saha, Suman Deb."Locating Optic Disk in Retina Fundus Image using Normalized Cross Correlation", ERCICA -2014, Elsevier Publications, ISBN:9789351072638, pp 700-705.[Received Best paper award]	August 01-02, 2014
		Subarna Sinha, Suman Deb, Subhrajyoti Deb, Bhaskar Biswas "Analysis of a new paradigm for depth vision application in augmented HCI", ICCSP- ISBN:978-1-4799-3357-0, IEEE Xplore, pp 974-978.	April 3 rd -5 th , 2014
		Subarna Sinha, Suman Deb, "Measuring Vitiligo: A fuzzy C- Means clustering based assessment technique", IMCIP	July 25 th -27 th , 2104
		Suman Deb, Subarna Sinha,"Comparative Improvement of Image Segmentation Performance with Graph Based Method over Watershed Transform Image Segmentation", ICDCIT-2014, Distributed Computing and Internet Technology Lecture Notes in Computer Science Volume 8337, 2014, pp 322-332, SPRINGER.	Feb 6 th -9 th ,2014
5	Mr. Nirmalya Kar	Subhrajyoti Deb, Bhaskar Biswas, Nirmalya Kar, "Study of NLFSR and reasonable security improvement on Trivium Cipher". In Proceedings of the Second International Conference on INformation systems Design and Intelligent Applications (INDIA- 2015), Volume 339, pp 731-739.	January 8-9th, 2015.
		Prasenjit Das, Subhrajyoti Deb, Nirmalya Kar, Baby Bhattacharya. "An Improved DNA Based Dual Cover Steganography", Proceedings of the International Conference on Information and Communication Technologies, ICICT 2014, Procedia Computer Science Volume 46, Pages 604–611,	December 3-5th, 2015
		Subhrajyoti Deb, Nirmalya Kar. "Analysis of Trivium Cipher and its Performance Increase in Cryptographic Era". International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA- 2014), Bangalore. Published by Elsevier & its Digital Library ISBN: 9789351072621.	August 01-02, 2014

6	Mr. Dwijen Rudrapal	Dwijen Rudrapal, Dr Baby Bhattacharya, "Recognition of Partial Textual Entailment for Bengali Tweets", In the Proceedings of 1st Workshop on Language Technologies for Indian Social Media (SOCIAL-INDIA), Pages 29-35, Goa, India, Eleventh International Conference on Natural Language Processing (ICON-2014)	21st December, 2014
7	Mr. Ashim Saha	"A Human Facial Expression Recognition Model based on Eigen Face Approach", Elsevier Procedia Computer Science Journal, ISSN: 1877-0509, Volume 45, pp. 282-289, doi: 10.1016/j.procs.2015.03.142. Available online at www.sciencedirect.com.	March, 26-27 , 2015
		"Different techniques of Automatic Facial Expression Recognition: A Survey", 2nd International Conference on Advances in Computing, Communication and Information Technology (CCIT-2014) held at Birmingham University, UK, ISBN: 978-1-63248-005-7, Seek Digital Library, pp. 45-49.	November, 14-15, 2014
		"A Comparative Study on different approaches of Real Time Human Emotion Recognition based on Facial Expression Detection", International Conference on Advances in Computer Engineering and Applications (ICACEA- 2015). Presented and to be published in IEEE Xplore Digital Library. ISBN (proceedings): 978-1-4673-6910-7/15.	19-20, March, 2015
		"Automatic Number Plate Recognition: A Survey" "International Conference on Recent Cognizance in Wireless Communication & Image Processing (ICRCWIP-2014)" Poornima University, Jaipur, INDIA. Proceedings published in Springer.	January 16th to 17th, 2014,
8	Mr. Pathasarathi De	Parthasarathi De, Dr Dibyendu Ghoshal "Census of extinct Spectacle monkeys of Tripura by the method of Iris pattern matching and recognition using rectangular area detection", International conference on electrical, electronics, signal Communication and Optimization (EESCO- 2015) IEEE Xplore	24 th -25 th Jan, 2015
		Nirupam Chakraborty, Chumki Acharya, Abir Datta, Parthasarathi De, "Authenticated Vehicle Parking System by	24 th -25 th Jan, 2015

		the method of number plate recognition and Iris pattern matching of the driver of that particular vehicle", International conference on electrical,electronics,signal Communication and Optimization (EESCO- 2015) IEEE Xplore	
		Mrinal Kanti Debbarma, Nikhil Debbarma, Debasish Deb, Parthasarathi De, "Performance Analysis of Network Monitoring Toolthrough Automat Software Engineering Approach", SPACES-2015, Dept of ECE, K L UNIVERSITY .IEEE xplore.	2 nd -3 rd Jan ,2015
9	Mr. Prashant Bhardwaj	Braj Bhushan Pandey, Swapan Debbarma, Prashant Bhardwaj, "Particle Swarm Optimization with varying InertiaWeight for solving nonlinear optimization problem" International Conference: Electrical, Electronics, Signals, Communication & Optimization- EESCO	24th - 25th Jan- 2015
10	Mr Kishore Kumar Dhar	Sabyasachi Mukhopadhyay, Ritwik Barman, Subhadip Dey, Asish Mitra, Prasanta K.Panigrahi,Paritosh Bhattacharya, K.K.Dhar, "Diagnosing Heterogeneous Dynamics For Wind Particle Trajectory In Wavelet Domain," IEEE International Conference:computer,communication,control and Infomation Technology (C3IT'15) , pp. 1-3,	7 th -8 th February, 2015
		Asish Mitra, Paritosh Bhattacharya, Sabyasachi Mukhopadhyay, K. K. Dhar, "Experimental Study On Shape And Path Of Small Bubbles Using Video-Image Analysis",IEEE International Conference on computer,communication,control and Infomation Technology(C3IT'15) , pp. 1-4	7 th -8 th February, 2015
11	Miss Tannistha Pal	Tannistha Pal, M.K Bhowmik and Anjan Kumar Ghosh,"Defogging of Visual Images using SAMEER-TU Database", Proceedings of the International Conference on Information and Communication Technologies, ICICT 2014, Procedia Computer Science Volume 46, Volume-46, Issue No 1877-0509,pp 1676-1683	3 rd -5 th December, 2014
		Tannistha Pal, M.K Bhowmik and Anjan Kumar Ghosh "Contrast Restoration of Fog-Degraded Image Sequences",	27 th -29 th December, 2014

		International Conference SocProS' 2014, NIT Silchar, Volume 335, Issue No 978-81-322-2216-3, ISBN No 2194-5357, pp 325-338	
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Visits Abroad by Faculty:

Sl. No.	Name of Faculty	Country Visited	Date	Purpose of Visit
1	Mr. Anupam Jamatia	Bangkok, Thailand	10-12 Oct. 2014	To attend ICCSM-2014 [4th International Conference on Computer and Software Modeling (ICCSM 2014)]
2.	Mr. Ashim Saha	Birmingham University, UK	2014	To attend 2nd International Conference on Advances in computing, Communication and Information Technology (CCIT-2014)

In International Journals:**By Mr. Mrinal Kanti Debbarma**

1. M. K DebBarma, S. K. Sen, Sudipta Roy, "DVRA-SN: Neighbour Based Distance Vector Routing Protocols for Mobile Ad Hoc Networks", International Journal of Advances in Computer Networks and its Security (IJCNS), Volume 5, Issue 1, Page 47-50, ISSN. 2250-3757
2. M. K DebBarma, Jhunu Debbarma, Sudipta Roy, and Santanu K. Sen, "A CBNR-NewDVR-based Routing Approach in Mobile Ad-hoc Networks", International Journal of Computer Science and Networks, ISSN: 2277-5420, vol. 3, Issue. 4, pp. 247-252, August 2014.

By Mr. Swapan Debbarma

1. KP Ghatak, S. Debbarma, "2D Screening Length in Ultrathin Films Under Intense Electric Field", Journal of Computational Theoretical Nanoscience 12 (8), 1898-1910 (SCI).
2. KP Ghatak B. Chatterjee, S. Debbarma, "Two Dimensional Effective Electron Mass at the Fermi Level in Quantum Wells of III-V", Ternary and Quaternary Journal of Nanoscience and Nanotechnology 15 (9), 6237-7425 (SCI).
3. S Debbarma, KP Ghatak, "Quantum Confinement and the Diffusivity Mobility Ratio", Reviews in Theoretical Science 3 (1), 16-144.
4. B Chatterjee, N Debbarma, S Debbarma, S Chakrabarti, KP Ghatak, "Influence of Parallel Electric and Magnetic Fields on the Einstein Relation in Kane Type Semiconductors" Advanced Science, Engineering and Medicine 6 (11), 1177-1190.
5. S Debbarma, S Chakravarti, N Debbarma, M Mitra, KP Ghatak, "Influence of Parallel Electric and Quantizing Magnetic Fields on the Screening Length in III-V, Ternary and Quaternary Semiconductors", Journal of Advanced Physics 3 (3), 213-226

By Mr. Nikhil Debbarma

1. Debashis Deb, Parthasarathi De, Nikhil Debbarma, "Modified Method of Texture feature Extraction and Analysis using Daubechies Wavelet and SVM" International Journal of Computer Applications Applications (0975 – 8887). Vol 110 No 16 January 2015.

By Mr. Suman Deb

1. Jit Senguta, Suman Deb, Ashim Saha "Multi layered Optical Feedback for controlling Haptic Device", IJCSN Volume 3, Issue 6, December 2014. ISSN: 2277-5420, pp 563.
2. Dipanwita Debnath, Suman Deb "An assessment on Asha Workers Awareness and implementing a low cost integrated toolkit for accreditation Social Health Activist (ASHA) using Android device", IJERGS ISSN-2091-2730, October- November 2014, Volume 2 ,Issue 6.
3. Subarna Sinha, Suman Deb "Depth Sensor Based Skeletal Tracking Evaluation for Fault detection system", International Journal of Computer Trends and Technology –IJCTT- Volume 9 Issue 7 March 2014, ISSN: 2231-2803, pp 350-354.

By Mr. Dwijen Rudrapal

1. Amitava Das and Dwijen Rudrapal, "Exploring the Partial Textual Entailment Problem for Bengali News Texts" Research in Computing Science, Vol. 86, pp. 43-52, 2014.

By Mr Parthasarathi De

1. Debashis Deb, Parthasarathi De, Nikhil Debbarma, "Modified Method of Texture feature Extraction and Analysis using Daubechies Wavelet and SVM" International Journal of Computer Applications Applications (0975 – 8887). Vol 110 No 16 January 2015.

In National Journals:

By Mr. Kishore Kumar Dhar

1. A Mitra, P Bhattacharya, S Mukhopadhyay, K K Dhar, "Experimental Study on Shape and Rise Velocity Of Small Bubbles In Stagnant Water," in Proceedings of J.Mech.Cont. & Math. Sci (JMCMs), Vol.-9, No.-2, January (2015) Pages 1397-1403, ISSN 0973-8975

9.5 Design and Development Activities:

In order to meet challenges of rapid strides in technology and the diversity of emerging career Opportunities, the Department have identified these thrust areas of research and development:

Algorithms and Complexity
Artificial Intelligence and NLP
Distributed Computing
Embedded Systems
Multimedia Systems
Cryptography and Information Security
Software and Systems Engineering
Sensor Networks
Wireless and Mobile Computing
Image Processing
Data base and data ware housing with data mining

The Department has demonstrated considerable strengths in areas such as computational topology, algorithm design and analysis. The Department has major contributions in the design of efficient algorithms for Mobile Adhoc Networks.

Areas of established strength in Artificial Intelligence include heuristic search, deduction, machine learning, and combinatorial optimization. Recent focus includes ambient intelligence, natural language processing, emotion recognition and formal verification.

Research facilities include

- Computer Programming Lab
- Artificial Intelligence Lab
- System Lab
- Software Engineering Lab
- Hardware Lab
- Embedded System Lab
- Analog and Digital Lab
- Central Computing Lab

Research Publications:

Total No. of papers published in National Journals : 01
Total No. of papers published in International Journals : 13
Total No. of papers presented in International Conferences : 29

9.6 Institute – Industry Collaboration:

Towards boosting industry-academia partnership for research and development as well as facilitating high end training programmes in Information and Communication Technologies, the National Institute of Technology, Agartala has signed a MoU with Centre for Development of Advanced Computing (C-DAC), a Scientific Society under the Ministry of Communications and IT, Government of India on October 29, 2009 at Agartala about C-DAC Satellite Centre. The MoU envisages strategic collaboration between the two organizations for research and development in areas such as e-Learning, semantic web etc., and high-end non-formal training programmes in Information and Communication Technologies.

9.7 Other Activities:

C-DAC Satellite Centre, NIT Agartala

The various programmes which will be conducted include Diploma in Advanced Computing (DAC), Diploma in Wireless & Mobile Computing (WiMC), Diploma in VLSI Design (DVLSI), and Diploma in Advanced Computer Arts (DACA). The certificate diploma programmes will also be conducted for the students. These programmes include the Advanced Diploma in Information Technology (ADIT), Diploma in Information Technology (DIT). These high-end career oriented IT training programmes designed and developed by the Advanced Computing School of C-DAC will assist the students in molding their skills based on the requirements of the IT industry thereby providing an advantage in placements and in their career path. The syllabi of the programmes are designed based on industry inputs and the IT training programmes have been developed taking the latest technologies in consideration. Mr Nirmalya Kar is acting as the Coordinator of the CDAC centre.

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 45 years of its journey, being a pivotal branch of the 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. 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 30 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.

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 Lab Facilities:

The department has adequate laboratory facilities for conducting experiments & developmental works by both U.G and P.G students.

Sl No	Name of the Laboratories	Max. Batch Size	Weekly Hours Required as per Curricula	No. of Experiments		Recurring Expenditure (Allotted Per year)
				Prescribed	Conducted	
1	Basic Electrical Laboratory	Total=80	15 Hrs.	10	8	Rs. 75,000.00
2	Electrical Machines Laboratory	Total=25	24 hrs.	10	8	
3	Computer Programming & Simulation Lab	Total= 25	16 hrs.	10	8	
4	Process Control & Instrumentation Laboratory	Total= 25	8 hrs.	8	8	
5	High Voltage Engineering Lab	Total=25	8 hrs.	6	6	
6	Electrical Measurement Lab / Network Lab	Total=25	8 hrs.	10	8	
7	Microprocessor & micro Controller Lab	Total=25	16 hrs.	32	32	
8	Power Electronics	Total=25	12 hrs.	10	8	
9	Control system Lab	Total=25	8 hrs.	10	8	
10	Electrical drives Lab	Total=25	8 hrs.	8	8	
10.	Power System Lab	Total=25	8 hrs.	8	8	
11.	DSP Lab	Total=25	8 hrs.	10	8	
12	Optics Lab	Total=25	8 hrs.	8	8	



Power System Simulation Lab



Instrumentation Lab



High Voltage Lab



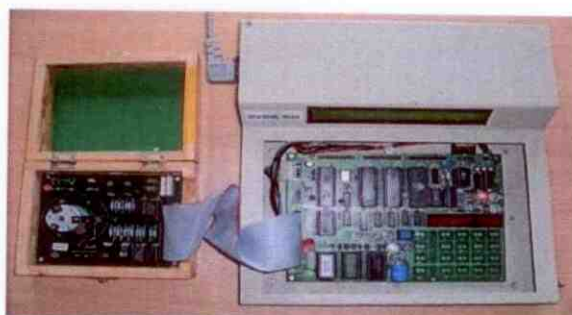
Optics Lab



DSP Lab



Process Control & Instrumentation Lab



Microprocessor Lab

10.4 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 Faculty	Title	Period
Workshop:			
1.	Dr. Bidyut Bhattacharyya	Traditional Knowledge	March 12- March 15, 2015
		Power for CPU	22 nd . February 2015
2.	Dr. Aniruddha Bhattacharya	"IEEE Authorship Workshop" at Jadavpur University, Kolkata	One day (8 th August 2014)
3.	Dr. A. K. Chakraborty	Management Capacity Enhancement Programme, Indian Institute of Management, Indore	27.10.2014 to 2.11.2014
Short term Course:			
1.	Mr. P R Kasari	Short Term Course on Power Electronics in IEST, Shibpur, WB	23 rd June-28 th June 2014
2.	Mr. Bikram Das	Short Term Course on Power Electronics in IEST, Shibpur, WB	23 rd June-28 th June 2014
3.	Mr. Abanishwar Chakraborty	Short Term Course on Power Electronics in IEST, Shibpur, WB	23 rd June-28 th June 2014
4.	Dr. A. K. Chakraborty	Short term training programme on recent advances in power system under deregulated environment, College of Engineering & Management, Kolaghat, West Bengal	05.07.2004 to 16.07.2004

Visits Abroad by Faculty:

Sl. No.	Name of Faculty	Country Visited	Date	Purpose of Visit
1.	Dr. Bidyut K Bhattacharyya	USA	August 11 th . 2014	High Volume Manufacturing for electronics components.
2.	Dr. A. K. Chakraborty	Thailand	14th May - 17th May, 2014	IEEE 11 th International conference on electrical engineering /electronics, computer, telecommunications and information technology (ECTI-CON), 2014
3.	Dr. Subhadeep Bhattacharjee	Bangladesh	September 27 – 30, 2014	Technical tour
4.	Ms. Saheli Ray	Thailand	14 th -17 th May	IEEE 11 th International Conference on Electrical Engineering /Electronics, Computer, Telecommunications and Information Technology (ECTI-CON), 2014.

Fellowships of Academics and Professional Societies:

Sl. No.	Name of Faculty	Level	Year
ISTE/ CSI and others			
1	Dr. Rup Narayan Ray	IE(I)-Member, ISTE – LM and INDIAN SCIENCE CONGRESS ASSOCIATION Member	1998 1992 1993
2	Dr. Priyanath Das.	ISTE Member, IE(I)	2009
3	Dr . Ardhendu Saha	ISTE Member IACS (Life Member),	2009 1999
4	Dr. Ajoy Kumar Chakroborty	MIET(UK),MISTE, FIE(1)	
5	Mrs. Anindita Jamatia.	ISTE Member	2009
6	Mr Abanishwar Chakroborty	ISTE Member	2009
7	Mrs. Sumita Deb.	. ISTE, Life Member . Institute of Engineers (India), Graduate G-547504-0	2009 2008.
8	Mrs. Minakshi Deb Barma.	ISTE Life Member Institute of Engineers (India)	2009
9	Mr Prabir Ranjan Kasari	ISTE, LM 62058,IEEE	2009
10	Mr Bikram Das.	ISTE(LM/ 62063), IEEE(India) associate member(AM099384-3) , Solar Energy Society of India (LM/1459/2010)	2010
11	Dr. Subhadeep Bhattcharjee	MISTE, MIETE (I)	--
12	Dr. Bidyut K Bhattacharyya	IEEE Member and Fellow	1988
13	Dr. Aniruddha Bhattacharya	Member of IEEE	2015

10.5 Design and Development Activities:

Brief and specific details of Process/ Instruments/ Equipment/ Software Designed and developed:

Bidyut K Bhattacharyya

1. The motion sensors and it will be Marketed Hopeful by 2016.
2. Mobil to Mobil Charger Hopefully will be marketed in 2016.
3. Circuits design for Mimicking the Super-capacitors output voltage behavior when drawing a certain power using regular power supply.

10.6 Research and Consultancy:**Sponsored Research Projects:**

Sl. No.	Title	Period	Funding Agency	Amount (in lakhs)	Co-ordinators
1.	Development an off grid hybrid power system for remote communities of NE India	2 years (2012-2014) continuing	AICTE	17,00,000 lakh	Dr. A. K. Chakraborty, Dr. Srimanta Ray
2	Optimizing Power Output through Hybrid Technology	2011 – 2014	DST, Govt. of India	19.34 lakh	Dr. Subhadeep Bhattacharjee
3	MODROBS on Photonics Simulation Laboratory	01 Year	AICTE	15 lakhs	Dr. Sumita Deb
4	Generation of red, yellow & green laser radiations by an intracavity frequency converted Nd:YAG laser.	03 Years	AICTE	20 lakhs	Dr. Ardhendu Saha & Dr. Sumita Deb
5	Laser Radiation by frequency tripling of Nd:YAG laser emitting around 1.3 μm .	03 Years	AICTE	20 lakhs	Dr. Sumita Deb & Dr. Ardhendu Saha
6	Improvement of efficiency of grid connected Photovoltaic System.	03 Years	AICTE	5 lakhs	Ms. Minakshi Deb Barma & Dr. Sumita Deb
7	Construction and manipulation of 7 degrees of freedom Robotic arm	01 year	TEQIIP	1.75lakhs	Dr. Sumita Deb

Research Publications:

Total No. of papers published in Refereed International Journals	:	07 (Dr. Ajoy Kumar Chakraborty) 06 (Dr. Ardhendu Saha) 05 (Dr. Subhadeep Bhattacharjee), 04 (Dr. A. Bhattacharya) 01(Mr. Prabir Rn. Kasari) 01 (Mr. Diptanu Das) 02 (Arup Ratan Bhowmik) 05(Dr. Nabamita Goswami)
Total No. of papers presented in National Conference	:	01(Bidyut K. Bhattacharyya) 01 (Dr. Ajoy Kumar Chakraborty) 02 (Dr. Subhadeep Bhattacharjee),
Total No. of papers presented in International Conferences	:	03 (Dr. Ajoy Kumar Chakraborty) 02 (Dr. Priyanath Das) 01 (Dr. Ardhendu Saha) 01(Mr. Bikram Das) 01(Mr. Prabir Rn. Kasari) 01(Mr. Abanishwar Chakraborty)

01 (Ms. Saheli Ray)
 01 (Ms. Sharmistha Sharma)
 02 (Arup Ratan Bhowmik)
 01 (Dr. Nabamita Goswami)

In Refereed International Journals:

Name of the Authors published in International Journals	Title of the Journals	Date of Publication of the Paper	Issue/ Volume No./ Page No.
Ardhendu Saha, Sumita Deb	Optik- International Journal of Light and Electron Optics Elsevier journal	2014	Volume 125 , 2014 Page No : 6861 - 6866
S. Bhattacharjee and S. Acharya	Energy Conversion and Management (Elsevier)	2015	89(2015), pp. 942-954.
S. Bhattacharjee and A. Dey	Sustainable Energy Technologies and Assessments (Elsevier)	2014	7 (2014), pp. 6-16.
S. Acharya and S. Bhattacharjee	Energy Conversion and Management (Elsevier)	2014	86(2014), pp. 901-915.
S. Bhattacharjee and B. Saharia,	8. Journal of Renewable and Sustainable Energy (American Institute of Physics, AIP)	2014	6(5), pp. 053140(1-21), 2014.
S. Acharya and S. Bhattacharjee	Frontiers in Energy (Springer)	2014	8(3), pp. 279-289.
K. Bhattacharjee, A. Bhattacharya, S. Halder nee Dey;	Scientia Iranica, Transactions on Electrical Engineering,	July 2014.	Vol. 21, no. 3, pp. 870-884,
K. Bhattacharjee, A. Bhattacharya, S. Halder nee Dey;	International Journal of Electrical Power and Energy Systems (Elsevier),	July 2014.	Vol. 59, pp. 176-187,
K. Bhattacharjee, A. Bhattacharya, S. Halder nee Dey;	International Journal of Electrical Power and Energy Systems (Elsevier),	December 2014.	Vol. 63, pp. 145-157,
K. Bhattacharjee, A. Bhattacharya, S. Halder nee Dey;	Applied Soft Computing;	November 2014.	Vol. 24; pp. 962-976;
Arup Ratan Bhowmik, A.K.Chakraborty	International Journal of Electrical Power and Energy Systems	2014	Vol. 62, 2014, pp. 323-334
Arup Ratan Bhowmik, A.K.Chakraborty	International Journal of Electrical Power and Energy Systems	2014	Vol. 64, 2015, pp. 1237-1250
T.Bhattacharjee, K.pal, A.K. Chakraborty	International Journal of Engineering Research	2014	Vol.-4, Issue-3, pp. 137 – 140
T.Bhattacharjee,	International Journal of Engineering	2014	Vol.-4, Issue-3,

K.pal, A.K. Chakraborty	Research		pp. 141 – 144
D.Debnath, S.Ray, A.K. Chakraborty	International Journal of Engineering Research & Technology (IJERT)	2014	Vol-1, pp. 1 – 10
T.Bhattacharjee, K.pal, A.K. Chakraborty	Journal of Solar Energy	2014	Vol. 2014, pp. 1-5
T.Bhattacharjee, A.K.Chakraborty	IEEJ Transactions on Electrical and Electronic Engineering	2014	Vol 9, 2014, pp. 581-587
Nabamita Goswami, Priyanka Dey, Ardhendu Saha	Optik (Elsevier Journal)	2014	Vol. 25 (2014) pp: 5912-5915
Nabamita Goswami, Aparupa Kar, Ardhendu Saha	Optics Communications (Elsevier Journal)	2014	vol:330 (2014) pp:169-174
Nabamita Goswami, Ardhendu Saha, Arijit Ghosh.	International Journal of ChemTech Research	2015	Vol. 7, No.3,pp 1148-1153, 2015
Kumar Avinash, Nabamita Goswami, Ardhendu Saha,	International Journal of ChemTech Research	2015	Vol. 7, No.3,pp 1158-1161, 2015
P R Kasari,	International Journal of Engineering Research & Technology,	10-05-2014	Issue-05, Volume-03, May-2014
Siddhartha Sankar Deb, Diptanu Das and Prasenjit Debnath	"PSIM based Design of an Inbuilt Solar Powered Mobile Phone Battery Charging System", IFRSA International Journal Of Electronics Circuits And Systems	January, 2015	Vol. 4 issue 1 pp. 18-24
Asim Datta , Debasree Saha , Amitava Ray , Priyanath Das	Anti-islanding selection for grid- connected solar photovoltaic system applications: A MCDM based distance approach, Solar Energy.	2014	Vol (2014) 519– 532,
S. Saha, A. Mondal, B. Choudhuri , T. Goswami , M. B. Sarkar, and K. K. Chattopadhyay	TiO ₂ Nanowires/Poly(Methyl Methacrylate) Based Hybrid Photodetector: Improved Light Detection.	January, 2015	Vol. 15, pp.1–5, 2015

In Proceedings of National Conference:

Name of the Conference	Place of the Conference	Name of the Participant	Date/ Duration
30 th National Convention of Chemical Engineers' on the Theme Recent Trends in Research, Development and Innovations in Chemical Industries	NIT Agartala	Debika Debnath	2014

In Proceedings of International Conference:

Name of the Conference	Place of the Conference	Name of the Participant	Date/ Duration
Design trends of linear induction motor (LIM) and design issues of a single sided LIM	International Conference on Control, Instrumentation, Energy and Communication (CIEC),	Saha, D. Das, P. ; Chowdhuri, S.	Jan. 31 2014-Feb. 2 2014
ECTI-CON 2014	Thailand	Saheli Ray	14-17 May, 2014.
International Conference on Electrical, Electronics, Signals, Communication and Optimization (EESCO), 2015	Visakhapatnam	Sharmistha Sharma	24-25 January, 2015.
IEEE 3 rd international conference on computation of power, energy, information and communication (ICCPEIC 2014)	Adhiparasakthi Engineering College, Melmaruvathur, Tamilnadu, India	Arup Ratan Bhowmik	April 16-17, 2014
IEEE 11 th International conference on electrical engineering/electronics, computer, telecommunications and information technology (ECTI-CON)	Sima Thani Hotel, 2112/2 Mittraphap Road, Amphur Muang, Nakhon Ratchasima, Thailand	Dr. Ajoy Kumar Chakraborty	14th May - 17th May, 2014
International Conference on Advances in Chemical Engineering and Technology (Icace Tkmce '14)	Department of Chemical Engineering, Thangal Kunju Musaliar College of Engineering, Kollam	D.Debnath	October 16-18, 2014
Nonlinear Frequency Generation and Conversion: Materials, Devices and Applications XIV, LASE 2015	The Moscone Center San Francisco, California, United States	Nabamita Goswami, Ardhendu Saha, Aparupa Kar.	Feb (7-12) 2015.
International Conference on "Electrical, Electronics, Signals, Communication & Optimization-EESCO 2015	Vishakhapatnam, Andra Pradesh	P R Kasari	24 th Jan- 25 th Jan 2015
International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON), 2014. (IEEE)	Thailand	Saheli Ray	14 th -17 th May, 2014

Book Published:

Name of the Authors published	Title of the Books	Date of publication	Issue/ Volume No./ Page No
Dr. Subhadeep Bhattacharjee	'Solar Electricity Generation', (ISBN 978-81-8487-404-4), Narosa Publishing House, New Delhi	2015	---
Srimanta Ray, Debika Debnath, and Ajoy Kumar Chakraborty	"Cost Optimization of a Hybrid Off-Grid Power System for Remote Localities: A Statistical Model", Springer International Publishing Switzerland	2015	Chapter 46, I. Dincer et al. (eds.), Progress in Clean Energy, Volume 2, DOI 10.1007/978-3-319-17031-2_46,

Patent Published:

Inventor Name	Year	Title	Published Source	Patent version No	Patent Application no.
S. Bhattacharjee, S. Acharya, and A. Das	2015	A heat-free composite daylight ingesting system	-	-	Patent filing is under process

Distinguished Visitors to the Departments:

Sl No	Name of the Visitors & Designation	Date of visit	Purpose of visit
1.	Dr. Swapan kumar Goswami, Professor Dept of Electrical Engg, Jadavpur University, Kolkata, West Bengal-700032	28/04/2014 to 01/05/2014	External Examiner for M.Tech (EE) 4 th sem
2.	Dr. Sujit Biswas. Professor, EE Department. Jadavpur University	08-05-2014 to 09-05-2014	External Examiner for M.Tech (EE) 4 th sem
3.	Dr. Shymal kumar Bhadra, Scientist G [Gr. IV(6)], Fibre Optics and Photonics Laboratory, CGCRI, Kolkata-32 West Bengal	25-05-2014 to 21-05-2014	External Examiner for M.Tech (EE) 4 th sem
4.	Prof. Siddhartha Sen, Professor & HOD of Electrical Engg Deptt. IIT KGP	22-04-2014 to 23-04-2014	External Examiner for Grand viva (8 th sem B.Tech)

10.7 Institute – Industry Collaboration:

Dr. Subhadeep Bhattacharjee is Officer in-charge of the Solar Radiation Resource Assessment (SRRA) Station at NIT-Agartala, set up in accordance with the MoU signed between C-WET (presently National Institute of Wind Energy) and NIT-Agartala as a part of National Project on Solar Radiation Resource Assessment.

10.8 Other Activities:

By Bidyut K Bhattacharyya

- Filled jointly with Director for 10 cr. Rupees grant for the center of innovation. This was done on December 2014. This was submitted by NIT, Director to MHRD.
- Many patents also in the process of filing, Mobile to Mobile Charger and also Solar Tree, hopefully it will be out by August 2015.

11.0 ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

11.1 Introduction:

The Department of ECE was established in 2007 and Shri Manik Bhowmik was the first HOD of the then Electronics and Electrical Engineering. Since its inception the Department has grown in multidimensional direction with multidimensional UG & PG teaching aspects. The department offers a wide range of courses which address almost the entire arena covering VLSI, Nano-electronics, Fabrication and Characterization of Quantum Effect Devices, Advance Microwave Electronics, Non-Linear System Science, Modern era of Communication, 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 has deeply involved in multidimensional aspects of teaching and research under the able leadership of Dr. Sambhu Nath Pradhan, the present HOD. The Department offers PhD courses, full time as well as part time in Nano-electronics, Microwave, VLSI, Image Processing, to name a few. It may be noted that the students of this branch have been placed in various reputed R&D organizations, different eminent companies, in India and abroad.

11.2 Academic Programme:

This Institute offers courses of study and facilities for research leading to B.Tech, M.Tech and Ph.D under Electronics and Communication Engineering. The department currently offers the following programs:-

Under Graduate programmes: B.Tech in Electronics & Communication Engineering (4 years)

Post Graduate programmes : M.Tech in two specialization- (i) VLSI and NANO Electronics and (ii) Communication Engineering.

11.3 Lab Facilities:

Sl.No	Name of the Laboratories	Max Batch Size	No. of Experiments	
			Prescribed	Conducted
1.	BASIC ELECTRONICS LABORATORY	40 students	10	10
2.	ANALOG ELECTRONICS LABORATORY	20 students	10	10
3.	DIGITAL ELECTRONICS LABORATORY	20 students	10	10

4.	MICROPROCESSOR LABORATORY	20 students	10	10
5.	COMMUNICATION LABORATORY	20 students	10	10
6.	DSP & VLSI LABORATORY	30 students	10	10
7.	COMPUTER LABORATORY	30 students	10	10
8.	MICROWAVE LABORATORY	20 students	10	10
9.	RF COMM. LABORATORY	30 students	10	10
10.	DEVICE FABRICATION LABORATORY	15 students	10	10
11.	NETWORK ANALYSIS & SYNTHESIS LABORATORY	20 students	10	10
12.	CONTROL SYSTEM LABORATORY	20 students	10	10
13.	MEASUREMENT & INSTRUMENTATION LABORATORY	20 students	10	10

11.4 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 Faculty	Title	Period
WORKSHOP:			
1.	Mr. Biman Debbarma	4 th International Conference on Computer and Software Modeling (ICCSM 2014), Bangkok, Thailand One day workshop on Network on Chip, IIT Delhi	October 10-12, 2014 29TH March 2015
2.	ATANU CHOWDHURY	Recent Advances in Applied Mathematics, NIT Agartala.	September 17-18, 2014
CONFERENCE:			
3.	ATANU CHOWDHURY	International Conference on Recent Trends and Innovations in Science and Technology (ICRTIST-2014), Pattaya, Thailand.	08-09 November 2014
		International Conference on Advances in Electronics and Electrical Engineering (ICAEEE- 2014), Pattaya, Thailand.	08-09 November 2014
		3rd International Conference on Computer, Communication, Control and Information Technology (C3IT-2015) AOT, Hooghly, West Bengal, India	07-08 February, 2015
4.	Mr.BIMAN DEBBARMA	4 th International Conference on Computer and Software Modeling (ICCSM 2014)	October 10-12, 2014

Visits Abroad by Faculty:

Sl.No	Name of Faculty	Country Visited	Date	Purpose of visit
1	Biman Debbarma	Thailand	10-12 October, 2014	Conference
2	Atanu Chowdhury	Thailand	08-12 Nov 2014	Attending International Conferences.

Fellowships of Academics and Professional Societies:

Sl. No.	Name of Faculty	Level	Year
ISTE/ CSI and others			
ISTE	Atanu Chowdhury	Life Member	2010-2011
ISI		Life Member	2010-2011
IEI		Associate Member	2009-2010
ISTE	Manik Bhowmik	Life Member	2010-2011
AMIE	Tamasi Moyra	Life Member	2000-2013
GIST	Sambhu Nath Pradhan	Fellow	2012

11.5 Design and Development Activities :

Brief and specific details of Process/ Instruments/ Equipment/ Software Designed and developed:

SL. NO.	LABORATORY	MAJOR EQUIPMENTS
1.	MICROWAVE LABORATORY	A. MICROWAVE TEST BENCH WITH REFLEX KLYSTRON AT X-BAND(8.2-12.4GHZ): B.USB POWER SENSOR / METER C. MICROWAVE TEST BENCH FOR MEASUREMENT OF RADIATION PATTERN & GAIN OF ANTENNA AT X-BAND D. MICROWAVE POWER METER WITH SENSOR & WAVEGUIDE TO CO-AXIAL ADAPTER AT X-BAND (8.2-12.4GHZ) E. MICROWAVE TEST BENCH WITH GUNN OSCILLATOR AT X-BAND (8.2-12.4GHZ)
2.	VLSI and EMBEDDED SYSTEM LABORATORY	A.ISE FOUNDATION XILINX SYSTEM EDITION 11.1I LOGIC EDITIONNM EDK SYSTEM GENERATOR + ACCEL DSP B.CPLD-DESIGN-KIT C. COOLRUNNER-II CPLD STARTER KIT D. COOLRUNNER-II STARTER KIT PERIPHERAL MODULE BUNDLE E. BASYS SPARTAN 3E XC3S100E STUDENT BOARD, USB CABLE F. NEXYS 2 SPARTAN 3E XC3S500E STUDENT BOARD, USB CABLE G. XUP SPARTAN 3E STARTER KIT WITH USB PROGRAMMING

		<p>CABLE</p> <p>H. XUP V5 BOARD(OPEN SPARC) WITH USB PLATFORM CABLE</p> <p>I. XILINX XTREME DSP STARTER KIT-SPARTAN 3A 1800A EDITION</p> <p>J. VIRTEX II PRO DEVELOPMENT SYSTEM</p> <p>K. VIRTEX-5 ML501 EVALUATION & DEVELOPMENT PLATFORM</p> <p>L. UNIVERSITY TRAINER KIT</p> <p>M. VIRTEX-4 ML 403 EMBEDDED PLATFORM</p> <p>N. PLATFORM CABLE USB</p> <p>O. ELECTRONIC DESIGN AUTOMATION(EDA) EDA SOFTWARE 29 CDS</p> <p>ECCN 3D991</p> <p>HTS 8523.40.4045</p> <p>Cadence CAD Tool</p> <p>I. ANALOG & MIXED SIGNAL DESIGN - FRONT END TOOLS</p> <p>II. INTERFACE</p> <p>III. BACK END TOOLS</p> <p>IV. DIGITAL DESIGN-FE SIMULATION AND VERIFICATION</p> <p>V. SYNTHESIS & DFT TOOLS</p> <p>VI. LOW POWER DESIGN TOOLS</p> <p>VII. STA/SI/PHYSICAL IMPLIMENTATIONTOOLS</p> <p>VIII. IR DROP & EM ANALYSIS TOOLS</p> <p>IX. COMMON TOOLS TO DIGITAL AND AMS DESIGNS TOOLS</p> <p>X. ADVANCED PCB SOLUTIONS</p> <p>Synopsys CAD Tool</p> <p>I. Front End University Bundle</p> <p>II. Back End University Bundle</p> <p>III. TCAD Bundle</p>
3.	DSP LAB	<p>A. XTREME DSP DEVELOPMENT KIT-VIRTEX-5 SXT EDITION WITH USB PLATFORM CABLE</p> <p>B. XTREME DSP VIDEO STARTER KIT- SPARTAN-3A DSP EDITION WITH USB PLATFORM CABLE</p> <p>C. XTREME DSP DEVELOPMENT KIT-VIRTEX-4 EDITION WITH USB PLATFORM CABLE</p> <p>D. XTREME DSP DEVELOPMENT PLATFORM-SPARTAN-3A DSP 3400A EDITION WITH USB CABLE</p> <p>E. VIRTEX-4 ML 402 SX XTREME DSP EVALUATION PLATFORM</p> <p>F. PLATFORM CABLE USB</p> <p>A. NI PXI-8106 CORE 2 DUO 2.16GHZ,CONTROLLER WITH WINDOWS VISTA</p> <p>B. 1 GB DDR2 RAM FOR NI 8106,NI 105 AND NI 8104 CONTROLLERS</p> <p>C. NI PXI-4072 6 & 1/2 DIGIT FEX DMM &LCR METER(1.8 MS/S DIGITIZER,100NV-300V,10NA-1A,2YR CAL)</p> <p>D. PI DMM TEST PROBES FOR USE WITH THE DIGITAL MILLIMETER PRODUCTS.THE PROBES ARE IEC1010 AND UL</p>
4.	RF COMMUNICATI	

	ON LAB	<p>CERTIFIED</p> <p>E. NI PXI-4110 TRIPLE OUTPUT DC POWER SUPPLY WITH APS-4100 AUX POWER</p> <p>F. 3.3 GHZ RF SIGNAL GENERATORS AND CW SOURCE</p> <p>G. NI PXI-5152 2 GS/S(1CH)/1 GS/S(2CH) DIGITIZER W/128MB MEMORY</p> <p>H. SMA 100,SMA MALE TO SMA MALE FLEXIBLE CABLE,38.1CM</p> <p>I. SMB 112,DOUBLE SHIELDED SMB AND SMA TO BNC ,MALE COAX CABLE 50OHM 1M</p> <p>J. CABLES SMA TO SMB AND SMATO BNC,PXI-5600 TO PXI-5122 & PXI-5142</p> <p>K. NI PXI-1042 8 SLOT 3U CHASIS WITH UNIVERSAL AC POWER SUPPLY</p> <p>L. POWER CORD,250V,10A,INDIA</p> <p>M. SE START UP ASSISTANCE AT YOUR SITE FOR 2 DAYS</p> <p>N. CABLE ASSY,TYPE SH100-10-FLEX,2M</p> <p>O. SCB-10 SHIELDED CONNECTOR BLOCK I/O N.SIGNAL TERMINATION ACCESSORY FOR 100 PIN MIO BDS ORDER SH100 SHIELDED CABLE SEPARATELY</p> <p>P. NI-PXI-6509 INDUSTRIAL 96-CHANNEL 5V/TTL/CMOS DIGITAL I/O MODULE AND NI-DAQ</p> <p>Q.NI PXI-5660 RF SIGNAL ANALYZER & NI PXI 5670 2.7 GHZ RF VECTOR SIGNAL GENERATOR WITH ACCESSORIES AS PER SPECIFICATION MENTIONED BELOW-</p> <p>NI PXI-5660 RF SIGNAL ANALYSER,2.7 GHZ SIGNAL ANALYZER WITH 20 MHZ REAL TIME BANDWIDTH,80 DB DYNAMIC RANGE, LESS THAN-135 DBM NOISE FLOOR,LESS THAN -90 DBC/HZ PHASE NOISE</p> <p>SMA 100,SMA MALE TO SMA MALE FLEXIBLE CABLE,12.7 CM</p> <p>NI PXI-5670 2.7 GHZ RF VECTOR SIGNAL GENERATOR WITH 8MB MEMORY</p> <p>SMA 100,SMA MALE TO SMA MALE FLEXIBLE CABLE 38.1 CM</p> <p>POWER CHORD,250 VOLT ,10A INDIA</p> <p>PXI-5670 RF REPLACEMENT CABLE KIT</p> <p>PXI -5670/5671 NAD PXI E RF REPLACEMENT CABLE KIT</p> <p>NI MODULATION TOOLKIT FOR LABVIEW</p> <p>NI MEASUREMENTS TOOLKIT.</p>
5.	COMPUTER LABORATORY	<p>DESKTOP COMPUTER HP COMPAQ</p> <p>8000 ELITE PC SERIES</p> <p>[50 NOS.]</p>
6.	BASIC ELECTRONICS LAB	<p>UNIVERSAL 24 PIN PLDS,1.5 AMP VOLTAGE REGULATOR, QUAD OP AMP, DUAL FREQUENCY COMPENSATED OP AMP, GENERAL PURPOSE PLL, DUAL RS 232 DRIVER,3:8 ANALOGMUX/DEMUX,TIMER, RELAYS-RW-SH-106D,POWER SUPPLY,FUNCTION GENERATOR,MSO,DSO,ETC.</p>

7.	ANALOG ELECTRONICS LAB	UNIVERSAL 24 PIN PLDS, 1.5 AMP VOLTAGE REGULATOR, QUAD OP AMP, DUAL FREQUENCY COMPENSATED OP AMP, GENERAL PURPOSE PLL, DUAL RS 232 DRIVER, 3:8 ANALOG MUX/DEMUX, TIMER, RELAYS-RW-SH-106D, POWER SUPPLY, FUNCTION GENERATOR, MSO, DSO, ETC.
8.	DIGITAL ELECTRONICS LAB	ADDER, SUBTRACTOR, COUNTER, REGISTER, MULTIPLEXER, ETC KITS, ICS
9.	ANALOG & DIGITAL COMMUNICATION LAB	A. AGILENT MXA SIGNAL N9020A-503 ANALYZER WITH 1) AGILENT N9068A-2FP 2) AGILENT 89601BSPC-HE1 B. ARBITRARY/FUNCTION GENERATOR, 240MHZ, 2 CHANNELS. C. LOGIC ANALYZER, 136 CHANNELS, 2GHZ, TIMING WITH 125PS MAGNIVU ACQUISITION, 235MHZ STATE, 2M MEMORY DEPTH, CERTIFICATE OF TRACEABLE CALIBRATION STANDARD, INDIA POWER CORD, GENERAL PURPOSE PROBE AND ACCESSORIES, 17 CHANNEL, FOR TLA5000 SERIES LOGIC ANALYZERS AND TLA7LX/7MX, TLA7NX/7PX/7QX LOGIC ANALYZER
10.	MICROPROCESSOR LAB	ADVANCE 8086 MICROPROCESSOR TRAINER (AMP-86) ADVANCED 8051 MICROCONTROLLER TRAINER KIT (AMC-51) BASIC 8085 MICROPROCESSOR TRAINER KIT (MP-85)
11.	MICROELECTRONICS & NANOELECTRONICS LAB	"E-BEAM EVAPORATOR": MODEL NO: 1576 100MM DIAMETER SUBSTRATES "E-BEAM POWER SUPPLY (EB3)" SL NO: 3PSU-060-10 "CLEAN AIR" VERTICAL LAMINAR AIRFLOW BENCH MODEL NO: CAV 1200 WORKING SIZE: W4 X D2 X H2 FEET MOC: IN IS 316 SS CONSTRUCTION "CLEAN AIR" STERILE GARMENT STORAGE CABINET MODEL NO: CGL 424 WORKING SIZE: W4 X D2 X H4 FEET MOC: IN IS 304 SS CONSTRUCTION. Programmable Spin Coater Digital Ultrasonic Cleaner HE-CRYOSTAT WITH TEMPERATURE CONTROLLER LDA MOUNT SI-CCD OPTICAL CHOPPER SYSTEM WHITE LIGHT SOURCE MONOCROMATOR SR 510, SINGLE PHASE LOCK IN GSL700X-S60 1700C COMPACT VACUUM AND TUBE FURNACE WITH COMPLETE ACCESSORIES

11.6 Research and Consultancy:**Sponsored Research Projects:**

Sl. No	Title	Period	Funding Agency	Amount (in lakhs)	Co-ordinators
1.	MODROBS MODERNIZATION OF COMPUTER LABORATORY, F.NO.8024/RIFD/MOD(NER)-58/2010-11, DT- 03-03-2011	2010-11	AICTE	15 LAKHS	DR. ANIRUDDHA MONDAL & MANIK BHOWMIK
2.	MODROBS MODERNIZATION OF CONTROL SYSTEM LABORATORY, F.NO.8024/RIFD/MOD(NER)-46/2011-11, DT- 03-03-2011	2010-11	AICTE	7 LAKHS	ATANU CHOWDHURY
3.	MODROBS MODERNIZATION OF PHOTONICS LABORATORY, F.NO.8024/RIFD/MOD(NER)-54/2010-11, DT- 03-03-2011	2010-11	AICTE	15 LAKHS	KAMALESH DEBNATH & ATANU CHOWDHURY
4.	MODROBS MODERNIZATION OF VLSI & MICROELECTRONICS LABORATORY, F.NO.8024/RIFD/MOD(NER)-49/2010-11, DT- 03-03-2011	2010-11	AICTE	12.48 LAKHS	SOMNATH ROY CHOWDHURY & MANIK BHOWMIK
5.	MODROBS MODERNIZATION OF OPTICAL COMMUNICATION LABORATORY, F.NO.8024/RIFD/MOD(NER)-50/2010-11, DT- 03-03-2011	2010-11	AICTE	13 LAKHS	KAMALESH DEBNATH & MANIK BHOWMIK
6.	MODROBS MODERNIZATION OF DIGITAL SIGNAL PROCESSING (DSP) LABORATORY F.NO.8024/RIFD/MOD(NER)-57/2010-11, DT- 03-03-2011	2010-11	AICTE	15 LAKHS	DR. ANIRUDDHA MONDAL & MANIK BHOWMIK
7.	MODROBS MODERNIZATION OF ELECTRONICS MEASUREMENT & INSTRUMENTATION LABORATORY, F.NO.8024/RIFD/MOD(NER)-52/2010-11, DT- 03-03-2011	2010-11	AICTE	13.55 LAKHS	ATANU CHOWDHURY & MANIK BHOWMIK
8.	MODROBS MODERNIZATION OF PROCESS CONTROL LABORATORY, F.NO.8024/RIFD/MOD(NER)-59/2010-11, DT- 03-03-2011	2010-11	AICTE	15 LAKHS	SHARMISTHA SHARMA & ATANU CHOWDHURY

9.	MODROBS MODERNIZATION OF ADVANCE SPECTROSCOPY LABORATORY USING SUPER CONTINIUM SOURCE, F.NO.8024/RIFD/MOD(NER)-56/2010-11, DT- 03-03-2011	2010-11	AICTE	15 LAKHS	SOMNATH ROY CHOWDHRY & DR. ARDHENDU SAHA
10.	MODROBS F.NO.8024/RIFD/MOD(NER)-35/2011-12 MODERNISATION OF AUDIO VIDEO LABORATORY	2011-12	AICTE	10.00 LAKHS	DR SAMBHUNATH PRADHAN
11.	MODROBS MODERNIZATION OF ADVANCE SPECTROSCOPY LABORATORY ADVANCED OPTICAL FIBER COMMUNICATION LAB	2011-12	AICTE	12.00 LAKHS	KAMALESH DEBNATH
12.	RPS F.NO.8023/RID/RPS-24/(NER)/2011-12 LOW POWER VLSI CIRCUIT DESIGN	2011-12	AICTE	16.00 LAKHS	DR SAMBHUNATH PRADHAN
13.	RPS DESIGN OF SLOT/PATCH ANTENNA AT KA BAND (AROUND 36.5 GHZ)	2011-12	AICTE	15.00 LAKHS	DR DIBYENDU GHOSHAL
14.	DESIGN AND DEVELOPMENT OF LASER DOPPLER VELOCIMETER USING BESSEL BEAM	2009-10	AICTE	20.00 LAKHS	ATANU CHOWDHURY
15.	DESIGN AND DEVELOPMENT OF NON-LINEAR MIRROR MODE-LOCKED LASER EMITTING AROUND 1.3 μm	2009-10	AICTE	20.00 LAKHS	MANIK BHOWMIK
16.	THERMAL AWARE LOGIC SYNTHESIS	2013-16	SERB, DST, GOVT. OF INDIA	23.10 LAKHS	SAMBHU NATH PRADHAN
17.	SMDP-C2SD	2015-20	DEITY	1.5 LAKHS	SAMBHU NATH PRADHAN

Research Publications:

Total No. of papers published in Refereed International Journals :11
Total No. of papers presented in International Conferences :15

In Refereed International Journals:

Name of the Authors published in International journals	Title of the Journals	Date of publication of the paper	Issue/volume No./Page No.
Dr.Sambhu Nath Pradhan			
S. N. Pradhan, P. Choudhury, and D. Nath	"Transistor level realisation of power gated FSM,"	2014	
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"	2014	DOI: 10.1080/21681724.2014.954633
D. Nath, P. Choudhury, A. Nag and S. N. Pradhan	, "Power Gating Architecture Implementation inside Clock Period to Reduce Power"	2014	Vol. 6, No. 3, Pp.310-324, 2014.
S. N. Pradhan, A. Chakraborty, A. Nag and D. Nath	, "Layout Oriented Look up Table Based Dual Threshold Approach to Reduce Leakage,"	2014	
Mrs.Priyanka Chowdhury			
S. N. Pradhan, P. Choudhury, and D. Nath	"Transistor level realisation of power gated FSM,"		
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"	2014	DOI: 10.1080/21681724.2014.954633
D. Nath, P. Choudhury, A. Nag and S. N. Pradhan	"Power Gating Architecture Implementation inside Clock Period to Reduce Power"	2014	Vol. 6, No. 3, Pp.310-324, 2014.
Mr. Atanu Chowdhury			
D. Sarkar, Atanu Chowdhury	International Journal of Engineering Trends and Technology (IJETT)	April 2014	Volume 10 Number 9, pp-461-465
A.K. Patel, Priyanka, Atanu Chowdhury	International Journal of Enhanced Research in Science Technology & Engineering.	July 2014	Vol. 3 Issue 7, July-2014, pp: (340-347)
Atanu Chowdhury and Debika Debnath	International Journal of Advances in Science and Technology (IJAST)	December 2014	Special Issue, pp:14-19
D. Sarkar, Atanu Chowdhury	International Journal of Advances in Science and Technology (IJAST)	December 2014	Special Issue, pp:235-241

In Proceedings of International Conference:

Name of Conference	Place of the Conference	Name of the Participants	Date/Duration
Dr.Sabhu Nath Pradhan			
"Thermal Aware Output Polarity Selection of programmable logic arrays" in International Conference on Electronic Design, Computer Networks & Automated Verification (EDCAV)	NIT Meghalaya, Shillong,	A. Das, K. Manna and S. N. Pradhan,	January 29-30, 2015
"Short Survey on Low Power Design and Scan Based VLSI Testing,"	Galgotias University, Greater Noida,	T. Sarkar, S. Chakraborty and S. N. Pradhan,	May 15-16, 2015.
"A Genetic Algorithm Approach for Hybrid ALU Design,"	Galgotias University, Greater Noida	AA. Purkayastha, S. Roy Choudhury and S. N. Pradhan	May 15-16, 2015
"A New Technique For Leakage Power Reduction In Testing of Digital Circuits,"	Ranchi	T. Sarkar, S. Chakraborty and S. N. Pradhan	May 9-10, 2015
"An Autonomous Power and Clock Gating Technique in SRAM Based FPGA ,"	Ranchi	A. Nag and S. N. Pradhan	May 9-10, 2015
"Implementation of Circuit In Different Adiabatic Logic,"		M. Bhowmik, M. Saha, A. Chaudhury ,S. Das and S. N. Pradhan	26 -27 February, 2015.
"Thermal Aware Output Polarity Selection of programmable logic arrays"	NIT Meghalaya, Shillong	A. Das, K. Manna and S. N. Pradhan	January 29-30, 2015
"Segmented Buffer for NOC Router"	B. Debbarma and S. N. Pradhan	Bangkok	Oct.10-12, 2014
Biman debbarma			
4 th International Conference on Computer and Software Modeling (ICCSM 2014)	Bangkok, Thailand	Biman Debbarma, S.N.Pradhan	October 10-12, 2014
Mr.Manik Bhowmik			
"Implementation of Circuit In Different Adiabatic Logic,"		M. Bhowmik, M. Saha, A. Chaudhury ,S. Das and S. N. Pradhan	26 -27 February, 2015.
Atanu Chowdhury			
International Conference on Recent Trends and Innovations in Science and Technology (ICRTIST-2014)	Pattaya, Thailand.	Atanu Chowdhury and Debika Debnath	08-09 November 2014
International Conference on Advances in Electronics and Electrical Engineering (ICAEEE-2014).	Pattaya, Thailand.	D. Sarkar, Atanu Chowdhury	08-09 November 2014

International Conference on Electronic Design, Computer Networks & Automated Verification (EDCAV-2015)	NIT Meghalaya, Shilong, India	D. Sarkar, Atanu Chowdhury	29-30 January, 2015
3 rd International Conference on Computer, Communication, Control and Information Technology (C3IT-2015)	AOT, Hooghly, West Bengal, India	Atanu Chowdhury, T. K. Bera, D. Ghoshal and B. Chakraborty	07-08 February, 2015
3 rd International Conference on Computer, Communication, Control and Information Technology (C3IT-2015)	AOT, Hooghly, West Bengal, India	T. K. Bera, Atanu Chowdhury, H. Mandal, K. Kar, A. Halder and J. Nagaraju	07-08 February, 2015

Books Published:

Name of the Authors published	Title of the Books	Date of publication of the book	Issue/volume No./Page No.
Dibakar Yadav, Tamasi Moyra and Kaushik Debbarma	"Microstrip Hairpin Bandpass Filter with Improved Out of Band Performance"	2014	Chapter: 3 DOI: 10.1007/978-81-322-1817-3_3, Springer India 2014.
Kaushik Debbarma, Tamasi Moyra and Dibakar Yadav	"Size Reduction of 4 X 4 Butler Matrix Using Defected Microstrip Structure"	2014	Chapter: 4 DOI: 10.1007/978-81-322-1817-3_3, Springer India 2014.

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 have passed out in May 2013. At present the current 4th year will start from July 2015. 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.

12.2 Academic Programme: B.Tech, M.Tech, Ph.D.

12.3 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.

Sl. No	Semester	Name of the laboratories	Maximum Batch Size	Weekly hours required as per curricula	No. of Experiments	
					Prescribed	Conducted
1.	3 rd semester	Network Analysis and Synthesis lab	25	03	10	10
		Electrical Measurement and Measuring Instruments lab	25	03	10	10
		Analog Electronic Circuits lab	25	03	10	10
		Programming in C lab	25	03	10	10
2.	5 th semester	Industrial Instrumentation lab	18	03	10	10
		Electronic Instrumentation and Measurement lab	18	03	10	10
		Linear Control Systems lab	18	03	10	10
3.	7 th semester	Process Control-II	15	03	10	10
		Digital Signal Processing Lab	15	03	10	10

	Digital Image Processing(Elective-I) Lab	15	03	10	10
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12.4 Research and Consultancy:**Research Publications:**Total No. of papers published in Refereed International Journals: **01**Total No. of papers presented in International Conferences: **04****In Refereed International Journals**

Sl. No.	Name of the Authors	Title of the Journals	Date of publication	Pages/Vol. No.
1.	Jayanta Kumar Rakshit, Jitendra Nath Roy	Optics Communications	15/06/14	Vol.321, pp. 38-46

In Proceedings of International Conference:

Sl No.	Name of the Conference	Place of the Conference	Name of the participants	Date/ Duration
1.	"Automated Image Analyser", Proc. International Conference on Communication and signal processing (IEEE sponsored)	Tamil Nadu, India	M.Bhowmik, D.Ghoshal and S.Bhowmik	April, 2015
2.	"An improved method for the enhancement of under ocean Image" Proc. International Conference on Communication and signal processing (IEEE sponsored)	Tamil Nadu, India	M.Bhowmik, D.Ghoshal and S.Bhowmik	April, 2015
3.	9 th International symposium on communication systems, Networks & Digital signal processing (CSNDSP)	Manchester, UK	J.N Roy and J.K Rakshit	23-25 July 2014
4.	Photonics 2014: 12 th International Conference on fiber optics and photonics	IIT Kharagpur, India	J.N Roy and J.K Rakshit	13-16 December 2014

Distinguished Visitors to the Departments:

Sl. No.	Name of the Visitors and Designation	Date of Visit	Purpose of Visit
1.	Mr. Shubhasish Kar, Scientist 'D', Electronic Test and Development Centre, Ministry of Communication, Department of Information Technology, Govt of India	17 th April, 2015	To conduct Grand Viva- voce of 8 th Semester B.Tech
2.	Prof. (Dr.) S. Majhi , IIT, Guwahati Department of Electrical & Electronics Engineering	23-24, November 2014	For question papers moderation of EIE Department

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.

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 Lab Facilities:

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.

Sl. No.	Name of the Laboratories	Maximum Batch Size	No. of Experiments	
			Prescribed	Conducted
01	Language Lab	40	Practice in Basic Language, Body Language, Listening Practice, GD, Debate, Communication Skills	Practice in Basic Language, Body Language, Listening Practice, GD, Debate, Communication Skills

13.4 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 Faculty	Title	Period
Workshop:			
1.	Debasis Neogi (As Resource Person)	Two Week Workshop on Econometrics-Practice and Research (for Faculty and Researcher) Organized by Centre for Development	December 18-19, 2014

		Studies (CDS), Department of Economics, Rajiv Gandhi University, Itanagar	
2.	Kaju Nath	Two Week Workshop on Econometrics-Practice and Research (<i>for Faculty and Researcher</i>) Organized by Centre for Development Studies (CDS), Department of Economics, Rajiv Gandhi University, Itanagar	December 15-24, 2014

13.5 Research and Consultancy:

Research Publications:

Total No. of papers published in Refereed National Journals	:01
Total No. of papers published in Refereed International Journals	:19
Total No. of papers presented in National Conference	:05
Total No. of papers presented in International Conferences	:01

In Refereed National Journals:

Name of the Authors published in National Journals	Title of the Paper	Title of the Journals	Date of publication of the paper	Issue/ Volume No./ Page No.
Amitava Mitra and Kaju Nath	Productivity and Marketing Issues of Fisheries in Arunachal Pradesh: An Analytical Study	Productivity (<i>Journal of National Productivity Council</i>) ISSN-0329924	Apr-June 2014	Vol.55, No. 1, pp. 26-34

In Refereed International Journals:

Name of the Authors published in International Journals	Title of the Paper	Title of the Journals	Date of publication of the paper	Issue/ Volume No./ Page No.
Chowdhury Amit Bikram and Debasis Neogi	Trade Complementarity and Similarity between India and BIMSTEC Countries in the context of Regional Trade Agreement (RTA)	International Journal of Research in Economics and Social Sciences	June 2014	Vol.4, Issue 6, PP: 5-14
Dey Anamika and Debasis Neogi	A Study on the Status of Training of the Self Help Group Members in Tripura	International Journal of Scientific Research	June 2014	Vol 3, Issue 6, PP: 444-446
Chowdhury Amit Bikram and Neogi Debasis	India's Trade with BIMSTEC Countries from 1997-98 to 2012-13: Impact of Economic	Asian Journal of Research in Business Economics and	July 2014	Vol.IV, Issue VII, PP: 61-68

	Recession	Management		
Chowdhury Amit Bikram and Neogi Debasis	Determinants of India's Exports to Small and Large Economies: An Analysis with some Select Parameters	Journal of Business Management and Social Sciences Research	July 2014	Vol.3, Issue 7, PP: 28- 36
Chowdhury Amit Bikram and Neogi Debasis	Cross Border Trade through North-East India and its Impact on Socio- Economic Development of the Region	Asian Academic Research Journal of Social Sciences and Humanities	July 2014	Vol. 3, No. 7, PP: 56- 66
Dey Anamika and Debasis Neogi	How does Income Generation from any Activity depend on Time Spent on that Activity?:A Study on the Time-Income Linkage for Various Activity undertaken by Self Help Groups	Asian Journal of Research in Social Sciences and Humanities	July 2014	Vol. 4, No. 7, PP: 123- 152
Dey Anamika and Debasis Neogi	A Study on Organizational Characteristics of Self Help Groups in India: How do they Contribute in Social Support and Psychological well-being of Rural Poor?	Global Journal for Research Analysis	July 2014	Vol. 3, Issue 7, PP: 259-263
Acharjee, Suman and Gyanabati Khuraijam	Spiritual Discourse: A Study of Some Selected Anglo-Indian Poems and the Bhagavad Gita	Modern Research Studies: An International Journal of Humanities & Social Sciences ISSN-23492147	June, 2014	Vol. I. Issue 1, pp. 1-11
Acharjee, Suman and Gyanabati Khuraijam	Representation of Dismantled Identity and Colonial Politics in Amitav Ghosh's <i>Sea of Poppies</i>	IJELLH – International Journal of English Language, Literature & Humanities ISSN-23217065	July, 2014	Vol. II. Issue III, pp. 59-67
Anuradha Nongmaithem	Divakaruni's <i>The Mistress of Spices</i> : A Study	The English Literature Journal ISSN-23483288	9th October, 2014	Vol. 1, No. 5, pp. 147-150
Anuradha Nongmaithem	English Classes for Engineer Students	Research Innovator Journal ISSN-23487674	December, 2014	Vol. 1, Issue VI, pp. 20-22
Anuradha Nongmaithem	Re-Reading of Shange's for colored girls who have considered suicide when the rainbow is enuf	Research Chronicler Journal ISSN-2347503X	January, 2015	Vol. III, Issue I, pp. 35-41

Anuradha Nongmaithem	Betsey Brown: A Reading	International Journal of Research in Engineering, IT and Social Sciences ISSN-22500588	January, 2015	Issue 1, pp. 1-8
Kaju Nath	Production and market efficiency for inland fisheries in North East India: The empirical study of Lohit and Lower Subansiri districts of Arunachal Pradesh	International Journal of Fisheries and Aquatic Studies ISSN-23475129	2015	Vol. 2, No. 4S, pp. 51-54
Kaju Nath	Socio-Economic Status of Fish Farmers in Arunachal Pradesh: An Analytical Study	Asian Journal of Research in Business Economics and Management ISSN-22501673	December, 2014	Vol. 4, No. 12, pp. 83-88
Kaju Nath and Lijum Nochi	Microfinance in the North Eastern Region of India- Opportunities and Challenges (Special Focus on Arunachal Pradesh)	Asian Journal of Research in Social Sciences and Humanities ISSN-23501665	December, 2014	Vol. 4, No. 12, pp. 43-46
Biman Kumar Nath and Kaju Nath	Micro Enterprises in Unorganized Sector of Meghalaya: A View from Economic Census	Radix International Journal of Research in Social Science ISSN-23201738	November, 2014	Vol. 3, Issue 11, pp.1-5
Kaju Nath and Amitava Mitra	Fish Farming as an Alternative Source of Livelihood in North Eastern Region of India: An Empirical Study of Arunachal Pradesh	Asian Journal of Research in Business Economics and Management ISSN-22501673	October, 2014	Vol. 4, Issue X, pp. 50-55
Emily Sharma	Beyond the Body Issues in LGBT/Queer Identities: A Feminist Conceptualization of Mythology, Theology and Therapy	LANGLIT: An International Peer Reviewed Open Access Journal ISSN-23495189	February 28, 2015	vol.1 issue 3 Page: 262-269

In Proceedings of National Conference:

Name of the Conference	Name of the Paper	Place of the Conference	Name of the participants	Date/ Duration
16 th North East Economic Association Annual Conference on Socio Economic Development and Natural Resources of	Socio-Economic Development through Cross-Border Trade: The Case of Tripura	Department of Economics, Tripura University, Agartala	Amit Bikram Chowdhury and Debasis Neogi	January 8-9, 2015

North-East India English Language Pedagogy for Engineering and Polytechnic Students		Scholar's Institute of Technology & Management, Guwahati and Department of English Language Teaching, Gauhati University, Guwahati	Anuradha Nongmaithem	March 13- 14, 2015.
National Seminar on Financial Inclusions: Issues and Challenges	Myth and Realities of Rural Housing in India: Status of Indira Awaas Yojana (IAY) in Arunachal Pradesh	Department of Commerce, Rajiv Gandhi University, Itanagar	Lijum Nochi and Kaju Nath	April 29- 30, 2014
Imaging and Imagining the North-East: Discourses on North- Eastern Literature, Culture, Creativity and Criticism	Gaze Within and Towards the North- Eastern Region of India as Conceptualized through Feminist Theorizing	Department of English, Tripura University, Agartala	Emily Sharma	August 22-23, 2014
Exploring Environmental History in North East India: Trends and Possibilities"	Web of the Feminine with Environment and Literature: An Ecofeminist Approach	Department of History, Tripura University, Agartala	Emily Sharma	May 28- 30, 2014

In Proceedings of International Conference:

Name of the Conference	Place of the Conference	Name of the participants	Date/ Duration
International Conference on Culture, Literature, Arts: Australia-India	Department of English, University of Madras	Anuradha Nongmaithem	8th-10th December, 2014

Distinguished Visitors to the Departments:

Sl. No.	Name of the Visitors and Designation	Date of Visit	Purpose of Visit
01	A.K.Sharma Senior Professor Department of Humanities and Social Sciences Indian Institute of Technology Kanpur Kanpur	April 4-7, 2015	External Expert of Ph.D. Viva Voce Examination

14.0 MECHANICAL ENGINEERING DEPARTMENT

14.1 Introduction:

The Mechanical Engineering Department of the Institute since 1965 has produced so many technocrats who are serving the country. The department has been involved with many research works and projects. Needless to say it is presently associated to different research and development activities resulted a couple of patents filed. Some of the faculty members are coordinating different technical bodies of the State, Tripura and the region. Numerous projects at State as well as National level are secured from different funding agencies and organize the short term courses in different fields of engineering and technology. The Department has organized conferences at national level too. The Department of Mechanical Engineering intakes 90 (Ninety) students per year in the first semester of the four year Degree course, besides considerable numbers of PhD students the department is hoisting three programs at PG level.

The Department has 29 (twenty-nine) nos. of faculty members. Among them 1 (one) Professor, 5 (five) numbers of Associate Professors, and rest are Assistant Professor. All the faculties are involved with different consultancy, research and developmental works along administrative activities of the Institute.

14.2 Lab Facilities:

Sl No	Name of the Laboratories	Max. Batch Size	Weekly Hours Required as per Curricula	No. of Experiments	
				Prescribed	Conducted
1	Refrigeration & Air Conditioning Lab.	20	3	4	4
2	Thermal Power lab.	20	3	6	6
3	CNC M/C Lab	20	3	2	1
4	Mechanical Measurement Laboratory	20	3	6	6
5	Vibration Lab	20	3	6	6
6	Heat Transfer Lab	20	7	7	7
7	IC Engine Lab	20	3	8	8
8	Fluid Mechanics Laboratory	20	3	6	6
9	Fluid Machinery Lab	20	3	4	4
10	Computational Lab - 1	20	3	3	3
11	Computational Lab - 2	40	3	10	10
12	Tribology Lab	20	3	2	2
13	CAD CAM Lab	20	3	7	7
14	FMS Lab	20	--	--	--
15	SOM Lab	20	3	8	8
16	Wind Tunnel Lab	20	3	6	6

Laboratory Activities.

Smithy Shop



Carpentry Shop



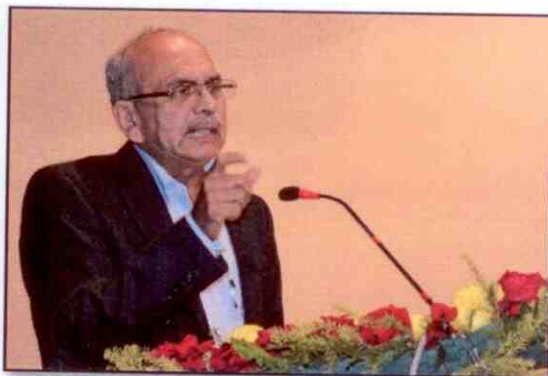
Machining Shop



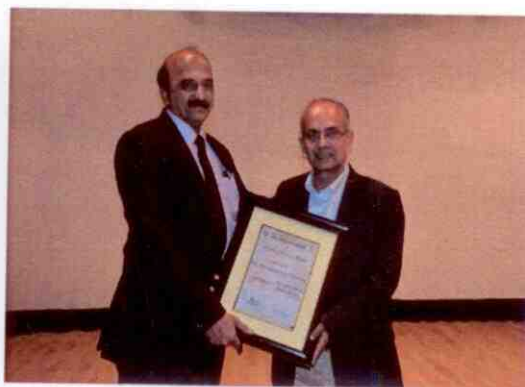
Departmental Activities



On the Dias Mr. Anil Mutha, Mr. A.S Karanth, Er. Lokranjan, IAS, Prof. Gopal Mugraya, Director, NITA, Mr. Yajnanarayana Kammaje, Prof. Swapan Bhaumik, HOD, ME during Entrepreneurship Awareness Programme



Mr. Yajnanarayana Kammaje, Entrepreneur



Facilitation of the Dignitaries.

14.3 Faculty and their Activities:

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

SI No.	Co-coordinators/ Name of Faculty	Title	Period
SEMINAR			
1	Dr. Swapan Bhaumik	30 th National Convention of Chemical Engineer and National Seminar on RTRDICI2014	Sept. 05-07, 2014
2	Dr. Swapan Bhaumik	28 th National Convention of Textile Engineer and National Seminar on "Technological Innovations, Design, and Sustainable Product Development in Handloom and Textile Industry"	March 07-08, 2015

3	Dr. Swapan Bhaumik	Seminar on "Research Methodology" Where PADMASRI Prof. B. L. Deekshatulu, Distinguished Fellow, IDRBT Hyderabad & Chairman, BoG College of Engineering JNTUH, Hyderabad delivered the speech as Expert Speaker	3 rd February, 2015
4	Dr. Swapan Bhaumik	Organised "SETHUBANDAN-2015" - Rotary Inter Country Meet – RID 3240 India and RID 3282 Bangladesh at Agartala where near about 300 Rotarians from RID 3282 were participated in the Rally, Seminar and Service Project as Secretary, Rotary Club of Agartala City.	11 th February, 2015
Workshop			
1.	Mr. Pritam Das	Two week ISTE workshop on Fluid Mechanics (Under national mission on education through ICT [MHRD] & IIT KGP).	20-30th May, 2014
2	Dr. Swapan Bhaumik	"Entrepreneurship Awareness Programme" where Er. Lokranjan, IAS, Mr. A.S. Karanth, Mr. Yajnanarayana Kammaje, Mr. Anil Mutha delivered speech.	29 th January, 2015
3	Dr. G. Ravi KiranSastry	Advances in Manufacturing Technology and Mechatronic Systems	March 13-14, 2015

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

Sl No.	Name of Faculty	Title	Period
Workshop			
1	Mr. Barnik Saha Roy	Introduction to Comsol Multiphysics 5.0	20-21st March 2015
2	Dr. G. Ravi KiranSastry	Two week ISTE workshop on Fluid Mechanics (Under national mission on education through ICT [MHRD] & IIT KGP).	20-30th May, 2014
3	Abhishek Paul	Two week ISTE workshop on Fluid Mechanics (Under national mission on education through ICT [MHRD] & IIT KGP).	20-30th May, 2014
4	Durbadal Debroy	Two week ISTE workshop on Fluid Mechanics (Under national mission on education through ICT [MHRD] & IIT KGP).	20-30th May, 2014
Conference			
1	Dr. Prasun Chakrabarti	Optimization of multi objective problem by taguchi approach and utility concept when turning aluminium 6061	10th August 2014
2	Dr. Swapan Bhaumik,	The Effect of Coating Thickness and Roughness of Nucleate Pool Boiling Heat Transfer on Nanoparticle Coated Surface.	06-07 September, 2014
3	Dr. Prasun Chakrabarti	Transient CFD Analysis Of 3-Lobe Bearings at 60000 and considering various roughness	19 - 21 December, 2014

		parameters rpm for A Gas Turbine	
4	Abhik Majumder	Effect of Corner Radius of a T-Junction Mini-square Channel on Fluid Flow and Heat Transfer in the Developing Region: A Three Dimensional Numerical Simulation	19 - 21 December, 2014
5	Subrata Kumar Ghosh	Selective Laser Sintering: A Case Study of Tungsten Carbide and Cobalt Powder Sintering by Pulsed Nd:YAG Laser	12 th -14 th December, 2014
6	Arindam Majumder	Modeling flow-shop scheduling using back-propagation neural networks with gradient descent, Quasi-Newton and L-M algorithms	1 st -12 th December 2014
7	Barnik Saha Roy	Thermal Modeling & Effect of Process Parameters in Friction Stir Welding"	14-15th March, 2015
8	Dr. G. Ravi KiranSastry	The 12 th International Conference on Combustion & Energy Utilisation – 12ICCEU	29 th Sept to 3 rd Oct 2014
9	Dr. Ajay Biswas	"XIII International Conference on Mechanical Engineering Design and Analysis (ICMEDA 2015),	January, 23-24, 2015
10	Dr. Ajay Biswas	"XIII International Conference on Materials, Mechanical and Industrial Engineering (ICMMIE 2015),	March 29-30, 2015
11.	Pankaj Kr. Das	"XIII International Conference on Materials, Mechanical and Industrial Engineering (ICMMIE 2015),	March 29-30, 2015

Visits Abroad by Faculty:

Sl. No.	Name of Faculty	Country Visited	Date	Purpose of Visit
1	Dr. G. Ravi Kiran Sastry	Lancaster University, Lancaster, UK	Sept 29-Oct 3, 2014	The 12 th International Conference on Combustion & Energy Utilisation – 12ICCEU
2	Dr. Ajay Biswas	Paris, France	January, 23-24, 2015	To present research paper orally in the international conference.
3	Dr. Ajay Biswas	Singapore	March 29-30, 2015	To present research paper orally in the international conference.
4	Dr. Prasun Chakrabarti	University center at Chicago, Illinois, USA	12 th to 14 th March 2015	To present research paper orally in the Ninth International Conference on Design Principles and Practices
5	Dr. Prasun Chakrabarti	State University of New York, New York, USA	16 th to 18 th March 2015	Visited the Different Labs
6	Dr. Swapan Bhaumik	Dhaka, Bangladesh	27 th -30 th September 2014	International Study Tour (Lead a team of 35 faculty members and students)
7	Dr. Swapan Bhaumik	Chittagong, Bangladesh	December 2-4 ,2015	Participated in Rotary Day Celebration as the Secretary of Rotary Club of Agartala. City

8	Dr. Swapan Bhaumik	Kyoto, Japan	August 10-15, 2014	To present a paper in The 15th International Heat Transfer Conference (IHTC15)
9.	Pankaj Kr. Das	Singapore	March 29-30, 2015	To present research paper orally in the international conference.

Honors and awards obtained:

Sl. No.	Name of Faculty	Name of award/Honour	Awarded by	Award for	Date
1	Dr. Swapan Bhaumik	Chairman,	Tripura State Centre, The Institution of Engineers(India)		2013-2015
2	Dr. Swapan Bhaumik	Secretary	Rotary Club of Agartala City		July,2014-June,2015
3	Dr. Swapan Bhaumik	Member, BOG	Bhawans' College of Science & Technology, Tripura		2014
4	Dr. Swapan Bhaumik	Expert member, Recruitment Board	Tripura University		2014-2015

Fellowships of academics and professional societies:

Sl No.	Name of Faculty	Professional societies / Level
1	Dr. Swapan Bhaumik	Fellow member /The Institution of Engineers (India) /, Member, ASME; Life member, ISHMT; Life member, ISTE; Member, ISHRAE
2	Dr. Prasun Chakabarti	Tribology Society of India (LM-4133), ISME (Indian Society for Mechanical Engineering) (Life Member), ISTE (The Indian Society for Technical Education) (LM-15030),IEI [The Institution of Engineers (India)] (FIE), PSI (Polymer Society of India) (Life Member)
3	Dr. G. Ravi KiranSastry	FIE (India)- F-118307-5, ASME (Member)- 107707322, SAE (Member)- 7140211193
4	Barnik Saha Roy	The Institution of Engineers (India) , Indian Welding Society
5	Madhujit Deb	The Institution of Engineers (India)
6	Abhik Majumdar	ISHMT
7	Dr. Ajoy Biswas	The Institution of Engineers (India)

14.4 Research and Consultancy

Sponsored Research Projects

Sl No.	Project Title	Period	Funding Agency	Amount	Co-ordinators
1	Feasibility study of Nano fluid based heat exchanger	Ongoing	AICTE	Rs.12.80 Lakhs	Abhik Majumdar
2	Development and prototype testing of a device for producing Bamboo Incense square sticks of available thickness	Ongoing	IL & FS	Rs.1,57,075	Abhik Majumdar
3	"Parametric Optimization And Heat Transfer Study During Submersed Arc Welding"	3years	All India Council for Technical Education (AICTE)	Rs.10	Dr. Ajay Biswas and Dr. Swapan Bhaumik
4	"Modernization Of Fitting Shop, Carpentry Shop, Machine Shop, Automobile Shop Under Workshop"	3years	All India Council for Technical Education (AICTE)	Rs.12	Dr. Ajay Biswas

Industrial Consultancy Work:

Sl. No	Name of Faculty	Title	Industry	Amount(Rs.)
1	Ankuran Saha, Pankaj Kumar Das & other Faculties of M.E Department	Testing of TMT Bars	PWD (R & B) , Vanghmun North Tripura	15892.00
2	Ankuran Saha, Pankaj Kumar Das & other Faculties of M.E Department	Testing of TMT Bars	RAMKY INFRASTRUCTURE LTD	23596.00
3	Ankuran Saha, Pankaj Kumar Das & other Faculties of M.E Department	Testing of TMT Bars	SDO, PWD (R & B), Manu Sub-Division, Dhalai	23596.00
4	Ankuran Saha, Pankaj Kumar Das & other Faculties of M.E Department	Testing of TMT Bars	Pawan Casting (Meghalaya) Pvt. Ltd	23596.00
5	Ankuran Saha, Pankaj Kumar Das & other Faculties of M.E Department	Testing of TMT Bars	Office of Assistant Engineer, Construction Sub- Division No – III, Kunjaban, Agartala	7865.00

RESEARCH PUBLICATIONS:

Total No. of papers published in Referred national Journals	:	01
Total No. of papers published in Referred International Journals	:	42
Total No. of papers presented in National Conference	:	03
Total No. of papers presented in International Conferences	:	13
Total No. of books published	:	04

Details of Referred National Journals

Sl. No	Name of Authors	Title	Name of Journal	Date of Publication	Issue/Volume No/ Page No.
1	Arindam Majumder, Joydeep Roy, R. N. Rai, S. C. Saha	Study the Influence of Heat Input on the Shape Factors and HAZ width during Submerged Arc welding	Indian Welding Journal.	January, 2015	Volume 48 No. 1

Details of Referred International Journals

Sl No	Name of Authors	Title	Name of Journal	Date of Publication	Issue/ Vol. No/ Page No.
1	Sudev Das, Dubba Santosh Kumar and Swapna Bhaumik	Enhancement of Nucleate Pool Boiling Heat Transfer on Silicon Oxide Thin Film Surface	Procedia Engineering	01.11.2014	90, 530 – 537
2	Sudev Das and Swapna Bhaumik	A Correlation for Prediction of Pool Boiling Heat Transfer of Nano-fluid.	Arab. J. Sci. Eng	25.08.2014	39 (10) 7385-7395
3	Sudev Das and Swapna Bhaumik	Enhancement of Nucleate Pool Boiling Heat Transfer on Titanium Oxide Thin Film Surface.	Arab. J. Sci. Eng	03.04.2014	39 (6) 4997-5006
4	A.Sarkar, A.Dutta, P.Dey, R.N.Roy, S. C.Saha	A Numerical Approach for modeling thermal profile and effects of process parameters on it submerged arc welding of AISI 1518 gray steel.	Journal of Thermal Engineering	May 2015	Vol. 1, Special issue 3, No. 6, P.P 505-516
5	A.Sarkar, R.N.Roy, S.C.Saha	A study of parametric effects on thermal profile of submerged arc welding process	Journal of naval architecture and Marine Engg.	March 2015	V12, 1.22670, 43-56
6	A.Sarkar, A.Majumder, M.Pawar, R.N.Roy, S.C.Saha	Optimization of process parameters of submerged arc welding by using grey-	Journal of Engineering Manufacture	May 2014	

		fuzzy based Taguchi method for AISI 1518 gray steel			
7	B.Choudhuri,K.Durgaprasad,S.Debbarma,A.Majumder,S.C. Saha	Parametric Optimization and cost estimation of AD6061 weldments in friction stir welding		April 2014	Vol. 2, Issue 4, Page 1-3
8	S.C. Saha	Studies on effect of cutting parameters on surface roughness of Al-Cu-TiC MMCs : An Artificial Neural Network Approach	Procedia Computer Science (ELSEVIER publication), Scopus indexed,		vol. 45, 2015, pp. 745-752.
9	S.C.Saha	Surface Roughness of Al-5Cu Alloy using a Taguchi-Fuzzy Based Approach	Journal of Engineering Science and Technology Review, Scopus indexed		Vol. 7, No.2 (2014), pp.217-222.
10	Dr. Prasun Chakrabarti	A computational approach on the load carrying capacity of a slipper bearing	IACSIT International Journal of Engineering and Technology	2014	vol.4, no.1 PP 52-56
12	PrasunChakrabarti	A computational approach on the position of load center of a slipper bearing	Global Journal of researches in engineering		
13	PrasunChakrabarti	Stress analysis and design optimization of piston slipper assembly in an axial piston pump	Journal of scientific and industrial research	2014	vol 73 (05) ,PP 318-323
14	Sheetal Kumar Parwar, J. Deb Barma, A. Majumder	Study of the effect of inclusion of TiO ₂ in active flux on submerged arc welding of low carbon mild steel plate and parametric optimization of the process by using DEA based BAT algorithm	International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering		Vol:9, No:6,2015
15	Arindam Majumder	Hybridized SA based BAT algorithm: an improved bat algorithm for global optimization	Journal of Computational Intelligence and Electronic Systems (JCIES)	December 2014	Volume 3, Issue 4, 278-284.

16	Arindam Majumder	A Simple and robust Fuzzy-AHP based Taguchi Approach for multi-objective optimization of welding process parameters	International Journal of Productivity and Quality Management	March 2015	In press
17	Madhujit Deb, Rahul Banerjee, Arindam Majumder, Sastry GRK	Multi objective optimization of performance parameters of a single cylinder diesel engine with hydrogen as a dual fuel using pareto-based genetic algorithm	International Journal of Hydrogen Energy (Elsevier)	15 th May 2014	Vol-39, Issue-15
18	Madhujit Deb, Arindam Majumder, Rahul Banerjee, G.R.K. Sastry, P.K. Bose,	A Taguchi-fuzzy based multi-objective optimization study on the soot-NOx-BTHE characteristics of an existing CI engine under dual fuel operation with hydrogen	International Journal of Hydrogen Energy (Elsevier)	3rd December 2014	Volume 39, Issue 35, Pages 20276-20293
19	Jibitesh Kumar Panda, VemparalaGopala Krishna G. R. K Sastry	Performance and Emission Analysis of Compression Ignition Diesel Engine With Diesel Additives and Mahua Biodiesel	International Journal of Engineering Research & Technology (IJERT)	April, 2014	Vol:3, Pages: 1270-1273
20	Ajay Kumar Das, Sumit Roy, Rahul, Banerjee, A Ghosh	Development and validation of a GEP model to predict the performance and exhaust emission parameters of a CRDI assisted single cylinder diesel engine coupled with EGR	Applied Energy	2015	vol. 140, pp. 52-64
21	Ajay Kumar Das, Sumit Roy, Rahul, Banerjee, P.K Bose	A TMI based CNG dual fuel approach to address the soot-NOx-BSFC trade-off characteristics of a CRDI assisted diesel engine – an EPA perspective	Journal of Natural Gas Science and Engineering	2014	vol. 20, pp. 221-240
22	Ajay Kumar Das, Sumit Roy, Rahul, Banerjee, P.K Bose	Development of an ANN based system identification tool to estimate the performance-emission characteristics of a CRDI assisted CNG dual fuel diesel engine.	Journal of Natural Gas Science and Engineering.	2014	vol. 21, pp. 147-158

23	Ajay Kumar Das, Sumit Roy, Rahul, Banerjee,	Application of Grey-Taguchi based multi-objective optimization strategy to calibrate the PM-NHC-BSFC trade-off characteristics of a CRDI assisted CNG dual-fuel engine	Journal of Natural Gas Science and Engineering.	2014	vol. 21, pp. 524-531
24	Ajay Kumar Das, Sumit Roy, Rahul, Banerjee, A Ghosh	A comparative study of GEP and an ANN strategy to model engine performance and emission characteristics of a CRDI assisted single cylinder diesel engine under CNG dual-fuel operation	Journal of Natural Gas Science and Engineering.	2014	vol. 21, pp. 814-828
25	Ajay Kumar Das, Sumit Roy, Rahul, Banerjee, P.K Bose	ANN meta-model assisted Particle Swarm Optimization of the performance-emission trade-off characteristics of a single cylinder CRDI engine under CNG dual-fuel operation	Journal of Natural Gas Science and Engineering.	2014	vol. 21, pp. 1156-1162
26	Ajay Kumar Das, Sumit Roy, Rahul, Banerjee.	A Grey-Fuzzy Taguchi approach for multi-objective optimization of performance and emission parameters of a single cylinder CRDI engine coupled with EGR	International Journal of Automotive Technology	2014	Accepted for Publication
27	Ajay Kumar Das, P. Dey.	Steady flow over triangular extended solid attached to square cylinder - A method to reduce drag	Ain Shams Eng Journal	2015	
28	Ajay Kumar Das, P. Dey.	Numerical analysis of drag and lift reduction of square cylinder,	Engineering Science and Technology, an International Journal	2015	
29	Ajay Kumar Das, P. Dey.	Numerical prediction and enhancement of unsteady forced convection over circular cylinder using CFD and ANN	Journal of Applied Fluid Mechanics	2015	Accepted
30	Ajay Kumar Das, P. Dey, A. Sarkar	Prediction of unsteady mixed convection over circular cylinder in the presence of nano-fluid - A	Journal of Naval Architecture and Marine	2015	Vol-12(1):Page- 57-71.

		comparative study of ANN and GEP	Engineering		
31	Ajay Kumar Das, P. Dey, A. Sarkar	Development of GEP & ANN model to predict the unsteady forced convection over a cylinder	Neural Computing and Application	2015	
32	Ajay Kumar Das, P. Dey.	Prediction of Unsteady Forced Convection over Square Cylinder in the Presence of Nano-fluid by Using ANN	World Academy of Science, Engineering and Technology, International Science Index, Mechanical and Mechatronics Engineering 1	2015	
33	Ankuran Saha	An AHP Approach for Determining the Weightage of Reaction Turbine Parameters Influencing its Performance	International Journal of Engineering Research & Technology (IJERT)	September- 2014	;Vol. 3 Issue 9
34	Ankuran Saha	An AHP approach for determining the weightage of parameters effecting cavitation and overall performance of a Kaplan turbine	International Journal of Engineering Technology, Management and Applied Sciences	March 2015	Volume 3 Special Issue;363-371
35	Abhishek Paul, RajSekharPanua, DurbadalDebroy, Probir Kumar Bose	Effect of compressed natural gas dual fuel operation with diesel and Pongamiapinnata methyl ester (PPME) as pilot fuels on performance and emission characteristics of a CI (compression ignition) engine	Energy (Elsevier)	15 April 2014	Volume 68, Pages 495-509
36	Abhishek Paul, Probir Kumar Bose, RajSekhar Panua, Durbadal Debroy	Study of performance and emission characteristics of a single cylinder CI engine using diethyl ether and ethanol blends	Journal of the Energy Institute	February 2015	Volume 88, Issue 1, Pages 1-10
37	Abhishek Paul, Raj SekharPanua, DurbadalDebroy,	A performance -emission tradeoff study of a CI engine under dual fuel	Energy and Fuels	March 9, 2015	Vol-29 Issue-4,Page-

	Probir Kumar Bose	mode using CNG as primary fuel and different blends of Diesel-ethanol-biodiesel as pilot fuel.			2394-2407
38	Rajsekhar Panua, MK Triveni, D Sen.	Laminar natural convection for thermally active partial side walls in a right-angled triangular cavity	Arab. J. Sci. Engg., Springer	2014	Vol-39, Page-9025-9038
39	Radhika Ramados, Niranjan Kumar, Kamatchi Jothiram alingam Sankaran, Pankaj Das, T. R. Ravindran, Sitaram Dash, Ashok Kumar Tyagi, Nyan-Hwa Tai, I-Nan Lin	Temperature Dependent Tribological Studies and Phase Transformation in Ultra-Nano-crystalline Diamond Films	Science of advanced materials	April 2014	6(4)
40	Arindam Majumder, Pankaj Kumar Das, Abhishek Majumder, Moutushee Debnath	An approach to optimize the EDM process parameters using desirability based multi-objective PSO	Taylor & Francis	2014	Vol. 2, No. 1, 228-240
41	Saurav Datta, Ranjeet Kumar Sahu, Siba Sankar Mahapatra, Ajay Biswas, Gautam Majumdar	"Optimization of percent dilution and HAZ width of submerged arc weldment using Taguchi philosophy coupled with fuzzy inference system"	Int. J. Productivity and Quality Management	2014	Vol. 13, No. 4, 2014, Pages 430-449
42	R. Sen, P. Chakraborti, J. Debbarma,	"Wear Behavior in Wire of Wire Cut EDM",	Applied Mechanics and Materials,	Dec. 2014	Vol. 704, pp. 70-76

Details of papers presented in National Conference

Sl. No	Name of Conference	Place of Conference	Name of Participants	Date/Duration
1	30th National Convention of Chemical Engineer and National Seminar on RTRDICI 2014	NIT Agartala and TSC, IE(I)	Dr. Swapan Bhaumik	Sept. 05-07, 2014

Details of papers presented in International Conference

Sl. No	Name of Conference	Place of Conference	Name of Participants	Date/Duration
1	The 10th International Conference of Mechanical Engineering (ICME2013)	Dhaka, Bangladesh	Sudev Das, DubbaSantosh Kumar and Swapan Bhaumik	June 20-22, 2014
2	5th IRF International conference	Goa India	Dr. Prasun Chakrabarti, Kishan Choudhury	10th August 2014
3	The 15th International Heat Transfer Conference (IHTC15)	Kyoto, Japan	Sudev Das and Swapan Bhaumik	August 10-15, 2014
4	The 12 th International Conference on Combustion & Energy Utilisation – 12ICCEU	Lancaster, UK	Dr. G. Ravi KiranSastry	Sept 29-Oct 3, 2014
5	The 18 th Online World Conference on Soft-Computing in Industrial Applications (WSC18)	Online Conference	Arindam Majumder	1 st -12 th December 2014.
6	5 th International and 26 th AIMTDR conference,	IIT Guwahati	Subrata Kumar Ghosh, Alok Kumar Das, SojiramMeena, ParthaSaha	12 th -14 th December, 2014
7	2 nd international conference on Advances in Mechanical Engineering and its interdisciplinary areas	College of Engineering and Management Kolaghat, West Bengal	SatadipGhosh, Subrata Kumar Ghosh and MeghanshuVashista	3 rd -4 th January, 2015
8	XIII International Conference on Mechanical Engineering Design and Analysis (ICMEDA 2015),	Paris, France	Ajay Biswas	January, 23-24, 2015
9	Ninth International conference on Design principles and practices	University Center Chicago, Chicago, USA	Dr. PrasunChakrabarti,	12-14 March 2015
10	International Conference of Material Processing & Characterization (ICMPC-2015),	GREIT, Hyderabad	TanmoyMedhi, BarnikSaha Roy, SubodhDebBarma, S.C Saha	14-15 th March, 2015
11	ICRMM- 2015	Singapore.	Dr. G. Ravi KiranSastry	21-23 rd March, 2015.
12	XIII International Conference on Materials, Mechanical and Industrial Engineering (ICMMIE 2015)	Singapore	Ajay Biswas	March 29-30, 2015

13	XIII International Conference on Materials, Mechanical and Industrial Engineering (ICMMIE 2015)	Singapore	Pankaj Kumar Das	March 29-30, 2015
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Details of Books Published

Sl. No	Name of Authors	Title	Date of Publication	Issue/Volume No/ Page No.
1	Subrata Kumar Ghosh, Alok Kumar Das, Partha Saha	Selective Laser Sintering: A Case Study of Tungsten Carbide and Cobalt Powder Sintering by Pulsed Nd: YAG Laser. (Book Chapter of Lasers Based Manufacturing, Topics in Mining, Metallurgy and Materials Engineering)	2015	Page No. 441-459
2	Sumit Roy, A. K. Das, P. K. Bose	Potential of EGR and CNG on performance and emissions of a CRDI engine. (Lambert Academic Publishing)	2015	ISBN: 978-3-659-69002-0;
3	Sumit Roy, A. K. Das, P. K. Bose	Application of Artificial Intelligence on a CRDI Diesel Engine"; (Lambert Academic Publishing.)	2015	ISBN: 978-3-659-69940-5;
4	Sumit Roy, A. K. Das, P. K. Bose	Performance-Emission Optimization of a CRDI engine using PSO (Lambert Academic Publishing)	2015	ISBN: 978-3-659-74304-7

Distinguished Visitors to the Department

Sl. No.	Name of Visitor and Designation	Date of Visit	Purpose of Visit
1	PADMASRI Prof. B. L. Deekshatulu , Distinguished Fellow, IDRBT Hyderabad & Chairman, BoG College of Engineering JNTUH, Hyderabad --	3 rd February 2015	Delivered the speech as Expert Speaker in Seminar on "Remote Sensing and Its Application".
2	Er. Lokranjan, IAS, Mr. A.S Karanth, Mr.Yajnanarayana Kammaje, Mr. Anil Mutha	29 th January 2015	Delivered speech in One day workshop on "Entrepreneurship Awareness Programme" .

15.0 MATHEMATICS DEPARTMENT

15.1 Introduction:

The Mathematics Department is old as (NIT, Agartala in 2006, formerly and Tripura Engineering College) itself a venerable fifty years of age, established in 1965. It has always believed in striving for excellence in research and teaching and has succeeded in this endeavor to a large extent. Growing steadily, today the Department not only teaches Mathematics to under graduate students of different Engineering Branches but recently the Department has also started two years M.Sc. degree course (Mathematics) in which admission is made through merit basis with an initial intake capacity of 10 students. Recently Department has started 5-years Integrated M.Sc. program in Mathematics (BS-MS program) in 2013. A syllabus revision workshop has been organized by the Department, for up gradation of UG-syllabus and course structure / syllabus for M.Sc. programme to make a significant contribution to research and development in Mathematics.

The Department has qualified faculty members consisting of three Associate Professors, two Assistant Professors, three contractual Assistant Professors and five Teaching Assistants. 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, Mathematical and computational biology, Bio-informatics, Mathematical physics.

The entire teaching faculty is actively engaged in research in their respective fields, and innumerable research papers are being published in various journals of repute. More than 20 research scholars have been pursuing their research work in their respective fields.

15.2 Academic Programme:

- a. BS-MS(5 yrs) dual programme in Mathematics
- b. M.Sc.(2 yrs) in Mathematics
- c. Ph.D Programme : Ph.D can be pursued in this Department.

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 on 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), M.B.A. BS-MS, M.Sc. courses in Mathematics with specialization in OR and Topology and Ph.D. program are also run under the Department.

15.3 Lab Facilities: One Computer Laboratory

Name of the Laboratory	Available Floor area (Sq.m)	Maximum Batch Size	No. Of Experiments
Computer Laboratory	69.485	20	1) 20 C-prog on numerical analysis 2) 15 MATLAB prog on numerical analysis 3) 19 C-prog on Adv numerical analysis 4) 5 C-prog on Data structure and algorithm

15.4 Faculty and their Activities:

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

Sl. No.	Name of the Faculty	Title	Period
1.	Dr. Paritosh Bhattacharya	National Workshop on Recent advances on Applied Mathematics	20 th & 21 st September, 2014 Organized by National Institute of Technology, Agartala organized by Department of Mathematics, NIT, Agartala.

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

Sl. No	Name of the Faculty	Title	Period
1	Dr. D. Bhattacharya	A new approach to solve general multi-objective De Novo programming problem under fuzzy environment	Singapore, 26-28 January, 15
2	Dr. U.K.Bera	Interval Oriented Entropy Based Multi-item Solid Transportation Problem with Budget and Breakability-A two stage approach	Singapore, 26-28 January, 15
3	Dr. Apu Kumar Saha	Determination of the Priority Values of Parameters for Maximization of Plant Efficiency of Small Scale Hydropower Plant	UAE, December, 27-30, 2014.
4	Dr. Apu Kumar Saha	Climate Variability on Hydro-Energy Potential: An MCDM and Neural Network Approach	Paris, France January, 23-24, 2015.
5	Dr. Baby Bhattacharya	On $(1, 2)^*$ -contra- -continuous function in Bitopological Spaces	28th -30th May 2014, Penang Malaysia
6	Dr. Baby Bhattacharya	Contra continuity and almost contra continuity in generalized fuzzy topological space.	28th -30th May 2014, Penang Malaysia
7	Dr. Baby Bhattacharya	A new approach to generalized fuzzy topological spaces	Singapore, 26-28 January, 15
8	Dr. Susmita Roy	Pedagogical Training For Mathematics Teachers (On Real Analysis)	1 st December, 2014 to 14 th December, 2014 Tripura University Tripura
9	Dr. Susmita Roy	International Conference on Advanced Computing Technologies and Applications (ICACTA-2015)	26 th -27 th of March, 2015, Dwarkadas J. Sanghvi College of Engineering, Vile Parle (West), Mumbai
10	Mrs. Pinki Majumder	International Conference on Advanced Computing Technologies and	26 th -27 th of March, 2015

	Applications (ICACTA-2015)	,Dwarkadas J. Sanghvi College of Engineering, Vile Parle (West), Mumbai
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Visits Abroad by Faculty:

Sl. No.	Name of Faculty	Country Visited	Date	Purpose of Visit
1.	Dr. Debashish Bhattacharya	Singapur	Singapore, 26-28 January, 15	4th CMCGS-15
2.	Dr. Uttam Kumar Bera	Singapur	Singapore, 26-28 January, 15	4th CMCGS-15
3.	Dr. Paritosh Bhattacharya	Singapur	24-25 March, 15	IPMBS-15
4.	Dr. Baby Bhattacharya	Singapur	Singapore, 26-28 January, 15	4th CMCGS-15
5.	Dr. Baby Bhattacharya	Malasia	28-30 May, 2014	ICOMEIA-14
6.	Dr. Apu Kumar Saha	UAE	UAE, December, 27-30, 2014.	International Conference
7.	Dr. Apu Kumar Saha	France	January, 23-24, 2015.	International Conference

15.5 Research and Consultancy:**Sponsored Research Projects: One**

Sl. No.	Title	Period	Funding Agency	Amount (in lakhs)	Co-ordinators
1.	Transportation Problems for breakable/deteriorating items under constraints in Uncertain Environment.	Three years (March 2015 to February 2018)	DST	15.61 lakhs	Dr. Uttam Kumar Bera

Research Publications:

Total no. of papers in Refereed National Journals : 01
 Total no. of papers in Refereed International Journals : 33
 Total no. of papers in Refereed International Conference : 06

In Refereed National Journals:

1. D. Bhattacharya and Lipika Dey, A Note on strongly normal lower semi continuous function, Journal of Tripura Mathematical Society, Vol.15, p.134-143, 2014.

In Refereed International Journals:

1. A. Baidya, U.K.Bera and M. Maiti, Solution of multi-item interval valued solid transportation problem with safety measure using different methods, OPSEARCH, Springer publisher, vol. 51, no. 1, pp.1-22, 2014.

2. U.K.Bera and A.Baidya, An Interval Valued Solid Transportation Problem with Budget Constraint in Different Interval Approaches, *Journal of Transportation Security*, Springer publisher, vol. 7, no.2, pp.147–155, 2014.
3. U.K.Bera, A.Baidya and A. Das, An Interval Solid Transportation Problem with Vehicle Cost, Fixed Charge and Budget , *IJMSC*, accepted , 2014.
4. U.K.Bera, A.Baidya, A Restricted Multi-objective Solid Transportation Problem with Budget Constraint involving, *New Mathematics and Natural Computation*, USA , world scientific publisher, accepted , 2014.
5. U.K.Bera & P.Mazumder, A Deterministic Inventory Model with Weibull Deterioration Rate under Trade Credit Period in Demand Declining Market and Allowable Shortage Using Fuzzy Logic, accepted, *Scientific Bullitin Series-C*, Romania, publish in vol. 80, 2014.
6. A.Das, U.K.Bera and M.Maiti, A Solid Transportation Problem in Uncertain Environment Involving Type-2 Fuzzy Variable, Accepted in *Applied Soft Computing (SCI) (ELSEVIER)*.
7. P.Majumdar, U.K.Bera and M.Maiti, A Multi-item EPQ model with imperfect production process for time varying demand with shortages, Accepted, *HJMS (SCI)*.
8. A.Baidya, U.K.Bera and M.Maiti, Multi-item Multi-Stage Multi-Objective Solid Transportation Problem for Disaster Response Operation with Type-2 Triangular Fuzzy Variables, Accepted, *HJMS (SCI)*.
9. P.De, H.Mondal and U.K.Bera, Influence of nano fluids on magneto hydrodynamics heat and mass transfer over a non-isothermal wedge with variable viscosity and thermal radiation, *Journal of Nano fluids*, American Scientific Publisher, 2014, v. 3, no. 4, pp. 391-398.
10. P.De, H.Mondal and U.K.Bera, Similarity flow to viscous flow and heat transfer of nanofluid over nonlinearly stretching sheet, *International Journal BITM- Transactions on EECC*, 2014, v. 3, no. 1, pp. 114-123, ISSN:0974-9527 .
11. P.De, H.Mondal and U.K.Bera, Heat and mass transfer in a hydro magnetic nano fluid past a non-linear stretching surface with thermal radiation, *Journal of Nano fluids*, American Scientific Publisher, 2015, v. 4, no. 2, pp. 230-238.
12. P.De, H.Mondal and U.K.Bera, Effects of mixed convective flow of a nanofluid with internal heat generation, thermal radiation and chemical reaction, *Journal of Nanofluids*, American Scientific Publisher, Accepted on 15-12-2014.
13. P.De, H.Mondal and U.K.Bera, Dual Solutions of Heat and Mass Transfer of Nanofluid over Non-linearly Stretching/shrinking Sheet with Thermal Radiation, *Meccanica* (Accepted on 16-05-2015).
14. B.Sinha, A.Das and U.K.Bera, Profit Maximization Solid Transportation Problem With Trapezoidal Interval Type-2 Fuzzy numbers, *IJACM*, DOI.10.1007/S40819-015-0044-8, 2015.
15. A.Das and U.K.Bera, A multi-objective restricted Solid Transportation Problem , *JFM*, accepted, 2014.
16. P. Majumder, U.K. Bera, An EPQ Model of deteriorating Items under partial trade credit Financing and Demand Declining market in Crisp and Fuzzy Environment, *Procedia Computer Science*, Elsevier, vol-45,p. 780-789, 2015.
17. A. Paul, P. Bhattacharya and S. P. Maity , An Interference Based Routing Metric In Wireless Mesh Network, *Applied Mathematics & Information Sciences*, Vol. 8, No. 4, 1717-1724 (2014).
18. B.Bhattacharya, A. Paul and S. Debnath, "Some Properties of $(1, 2)^*$ -Locally Closed Sets", *International Journal of Analysis*, Volume 2014, 5 Pages (2014). <http://dx.doi.org/10.1155/2014/393618>
19. B.Bhattacharya and J. Chakraborty, Generalized Regular Fuzzy Closed Sets and Their Applications, *The Journal of Fuzzy Mathematics*, Vol. 22, No.4 (2014) 1-13.

20. Apu Kumar Saha and Debasish Bhattacharya, Normal Induced Fuzzy Topological Space, Italian Journal of Pure and Applied Mathematics, Accepted.
21. Shubhro Chakrabarty, Aniruddha Mondal, Mitra Barun Sarkar, Bijit Choudhuri, Apu Kumar Saha and Anirban Bhattacharyya, TiO₂ nano particles arrays ultraviolet-A detector with Au Schottky contact, IEEE Photonics Technology Letters 2014, Volume:26 , Issue: 11 , page : 1065 – 1068.
22. B. Choudhuri, A. Mondal, A. Ganguly, A. K. Saha & K. K. Chattopadhyay, Glancing angle synthesized indium nanoparticles covered TiO₂ thin film and its structural, optoelectronic properties, Applied Physics A Materials Science & Processing, DOI 10.1007/s00339-014-8744-1(2014).
23. S. Chakrabarty, A. Mondal, P.Chakrabarti, S.K. Singh, A. K.Saha and P. Singh, Synthesis of biocompatible TiO₂ nanodots: Glancing angle deposition technique, Journal of nanoscience and nanotechnology, vol 15, page 1-6, 2015.
24. Susmita Roy and S.Bhattacharya, Application of Fuzzy-Rough Oscillation on the field of Data-mining (Special attention to the Crime Against women at Tripura), Procedia Computer Science (ELSEVIER publication), vol. 45, 2015,p. 790-799 (SCOPUS)
25. B. Das, Susmita Roy, R. N. Rai, S. C. Saha, Studies on effect of cutting parameters on surface roughness of Al-Cu-TiC MMCs : An Artificial Neural Network Approach Procedia Computer Science (ELSEVIER publication), vol. 45, 2015, p. 745-752 (SCOPUS)
26. B. Das, Susmita Roy, R. N. Rai, S. C. Saha, Surface Roughness of Al-5Cu Alloy using a Taguchi-Fuzzy Based Approach, Journal of Engineering Science and Technology Review, Vol. 7 ,No.2 (2014), pp.217– 222, (SCOPUS indexed). Publisher: Eastern Macedonia and Thrace Institute of Technology, Accepted on 20 July 2014, ISSN: 1791- 2377.
27. D.Dutta; A spectral model for the turbulent kinetic energy in a stratified shear flow (JEIT, Vol-3, No.8, 2014).
28. D. Dutta, P.Singha, B.Sahu, Interlaced linear-nonlinear wave propagation in a warm multicomponent plasma , Phys. of Plasma. ,Vol:- 21, 122308 (2014)
29. D. Dutta- Arbitrary amplitude solitary waves in an unmagnetized quantum pair-ion plasma(Accepted in IJNP)
30. S.P.Mondal, T.K.Roy, First Order Linear Homogeneous Fuzzy Ordinary Differential Equation with initial value as triangular intuitionistic fuzzy number, Journal of Uncertainty in Mathematics Science 2014 (2014) 1-17.
31. S.P.Mondal,T.K.Roy ,Non linear arithmetic operation on generalized triangular intuitionistic fuzzy numbers, Notes on IFS, Volume 20, 2014, NO. 1, pages 9-19.
32. S. Debnath, J. Debnath, On I-statistically convergent sequence spaces defined by sequences of Orlicz functions using matrix transformation, Proyecciones Journal of Mathematics, 33(3), 277-285 (2014).
33. S. Debnath, J. Debnath, Some ideal convergent sequence spaces of fuzzy real numbers, Palestine Journal of Mathematics, 3(1), 27–32 (2014).

In Proceedings of International Conference:

1. Bhattacharya and A. Paul, On $(1, 2)^*$ -contra-continuous function in Bitopological Spaces, International conference on mathematics engineering and industrial applications 28th -30th May 2014, Penang Malaysia.
2. Bhattacharya and J. Chakraborty, Contra continuity and almost contra continuity in generalized fuzzy topological space, International conference on mathematics engineering and industrial applications 28th -30th May 2014, Penang Malaysia.
3. Apu Kumar Saha and Mrinmoy Majumder ,Determination of the Priority Values of Parameters for Maximization of Plant Efficiency of Small Scale Hydropower Plant, The 3rd

- Abu Dhabi University Annual International Conference: Mathematical Science and It's Applications, Abu Dhabi, UAE, December, 27-30, 2014.
4. S. Chakrabarty, A. Mondal, A. K. Saha, B. Choudhuri, M. B. Sarkar, P. Singh, and K. Goswami, Retention of charge in TiO₂ NPs/ SiO_x TF system, The First International Conference on Emerging Materials: Characterization & Application EMCA-2014 December 4-6, 2014, Kolkata, INDIA.
 5. Mrinmoy Majumder and Apu Kumar Saha, A Fuzzy AHP and Fuzzy ANP approach for minimization of climatic vulnerability, The 3rd Abu Dhabi University Annual International Conference: Mathematical Science and It's Applications, Abu Dhabi, UAE, December, 27-30, 2014.
 6. Apu Kumar Saha and Mrinmoy Majumder, Climate Variability on Hydro-Energy Potential: An MCDM and Neural Network Approach, International Conference on Energy, Environment and Sustainable Development (ICEESD-2015) Paris, France January, 23-24, 2015.
 7. T.K.Bandyopadhyay, Suman Debnath, Apu Kumar Saha and Mrinmoy Majumder, CFD and ANN analysis of non-Newtonian pseudo plastic liquid flow through rough pipe, The 3rd Abu Dhabi University Annual International Conference: Mathematical Science and It's Applications, Abu Dhabi, UAE, December, 27-30, 2014.
 8. U.K.Bera and A.Baidya, "Interval Oriented Entropy Based Multi-item Solid Transportation Problem with Budget and Breakability-A two stage approach" , 4th CMCGS-15, Sigapore, 26-28 January, 15

Books / Monographs / Edited Volumes:

Sl. No.	Author	Title of the Book/ Book chapter	Published by	ISBN
1	Dr. Apu Kumar Saha	Feasibility Model of Solar Energy Plants by ANN and MCDM Techniques	Springer, 2014	978-981-287-307-1
2	Dr. Apu Kumar Saha	Impact of Climate Change on HydroEnergy Potential	Springer, 2014	978-981-287-304-0
3	Dr. Apu Kumar Saha	Hydrologic Indicator Vol-II (Chapter-4; Water Footprint)	Springer, 2014 (ACCEPTED)	-
4	Dr. Apu Kumar Saha	"Application of Optimized and Cognitive decision making in Rural Water allocation Measures (Chapter-2; Virtual Water Index)	Springer, 2014 (ACCEPTED)	-
5	Dr. Paritosh Bhattacharya	Weibull Distribution for Estimating the Parameters	Wind Energy Management	978-953-307-1096-5
6	Dr. Paritosh Bhattacharya	Exhaust Muffler: Mathematical Modeling in the Internal Combustion Engine Exhaust Muffler	LAP LAMBERT Academic Publishing, Germany	978-3-8484-3993-5
7	Dr. Paritosh Bhattacharya	Vertex Coloring: For the analysis of Gaussian & Laplacian Image Pyramid	LAP LAMBERT Academic Publishing, Germany.	978-3-659-20066-3
8	Dr. Paritosh	Hilbert Transform in	LAP LAMBERT	978-3-659-

	Bhattacharya	Engineering	Academic Publishing, Germany.	22902-2
9	Dr. Debjit Dutta	Book : Interdisciplinary Topics in Applied Mathematics, Modeling and Computational Science. Chapter title: New Exceptional Orthogonal Polynomials (EOPs) and Nonlinear Algebras Associated to the Quantum System (Accepted)	Springer International Publishing Switzerland 2015	-
10	S.Saha, Mantu Das and K.D.Choudhury Mantu Das	An Inventory Model for Non Deteriorating Items with Non-Linear Dependent Demand Rate	Narosa Publication House(Book Print)	
11	K.D.Choudhury , Mantu Das and S.Saha	A Note on Inventory Model	Narosa Publication House(Book Print)	
12	A.Das and U.K.Bera	A Bi-objective solid transportation model under uncertain environment, Facets of Uncertainties and Application	Book chapter-Springer, Facets of uncertainty and application, 2014	

Distinguished Visitors to the Departments:

Sl. No.	Name of the visitors and Designation	Date of Visit	Purpose of Visit
1.	Prof. P. D. Srivastava IIT, Kharagpur, WB	27-04-2014	Expert Lecture on Functional Analysis
2.	Prof. R. N. Bhounick (Emeritus Professor) Tripura University, Tripura	21-05-2014	External Expert for M.Sc. Project Presentation
3.	Dr. S Behra ICFAI University, Tripura	28-04-2014	Expert Lecture on
4	Dr. Samarjit Kar NIT Durgapur, WB	28-04-2014	Expert Lecture on Type-II Fuzzy Set
5	Dr. A. K. Ouja IIT Bhubaneswar, Orisda	28-04-2014	Expert Lecture on Geometric Programming
6	Dr. Paramartha Dutta Visha Varati University, WB	20-11-2014 21-11-2014	Workshop on Recent Advances in Applied Mathematics Invited Talk
7	Prof. K. S. Choudhury (Emeritus Professor) Jadavpur University, WB	20-11-2014 21-11-2014	Workshop on Recent Advances in Applied Mathematics, Invited Talk
	Prof. M. Maity Vidyasagar University, WB	20-11-2014 21-11-2014	Workshop on Recent Advances in Applied Mathematics, Invited Talk
8	Prof. T. Som IIT, BHU, UP	23-11-2014	Invited Talk & Departmental Visit

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 Ph.D (Physics) programme in different topics, within the major thrust areas of *Applied Optics & Photonics, Plasma Physics, Theoretical Condensed Matter Physics, Liquid Crystals and Atmospheric Science*.

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

16.3 Lab Facilities:

Sl. No.	Name of the Laboratories	Maximum Batch Size	No. of Experiments	
			Prescribed	Conducted
1.	UG laboratories (2)	35-40 students per batch	8	7
2.	PG Laboratories	3 - 4 students per batch	6X4 = 24	6X4 = 24

16.4 Faculty and their activities:**Visits Abroad by faculty:**

Sl. No.	Name of the Faculty	Country visited	Date	Purpose of Visit
1	Jitendra Nath Roy	U.K	24 th -27 th July 2014	Attending 9 th IEEE/IET International Symposium on Communication systems, Networks and Digital Signal Processing

16.5 Research and Consultancy :**Research Collaboration:**

- A. Collaboration with Prof. K.E. Zoiros, Department of Electrical and Computer Engineering, Light wave Communications Research Group, Xanthi-Greece
- B. Collaboration with Department of Physics & Meteorology, IIT Kharagpur, India.
- C. UGC-DAE CSR Indore, Khandwa Road, Indore, India
- D. Oakland University, Michigan, USA.
- E. IIT Indore, Indore, India

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	2014-2017	DST, Govt. of India	19.2	Dr. Biswajit Saha
2.	Vertically Aligned CuInS ₂ or CuInS ₂ -ZnS Decorated ZnO Nanowires for Flexible Hybrid Photovoltaic Devices	3 years	CSIR	25 lakhs	Dr. Suvra Prakash Mondal (PI) and Dr. Jitendra Nath Roy (Co-PI)
3.	Fabrication of Hybrid Organic Molecular Semiconductor-Inorganic Ferromagnet based Organic Spin Valves for Molecular Spintronics Application	3 years	DST	27.6 lakhs	Dr. Puja Dey

4.	Investigation of Multiple Double Layer Dynamics and Physical Characterization of Double Layer Plasma in a Magnetic Mirror Device for Application in Plasma Based Propulsion Systems	3 years	DST	20 lakhs (approved for equipment)	Dr. Jitendra Nath Roy (PI) and Dr. Manash Kumar Paul (Co-PI)
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Research Publications:

Total No. of papers published in Refereed National Journals	: 01
Total No. of papers published in Refereed International Journals	: 18
Total No. of papers published in National Conference	: 00
Total No. of papers published in International Conference	: 06
Total No. of Books published	: 02
Total No. of patents	: 01

In Referred National Journals:

Name of the Authors published in National Journals	Title of the Journals	Date of publication of the paper	Issue/Volume No./Page No.
R. Roy	Research and Reviews: Journal of Space Science and Technology	July 2014	Vol 3(2), pp. 1

In Referred International Journals:

Name of the Authors published in international journals	Title of the Journals	Date of publication of the paper	Issue/ Volume No./ Page No.
T. Majumder, J.J.L. Hmar, K. Debnath, N. Gogurla, J. N. Roy, S. K. Ray and S. P. Mondal	Photoelectrochemical and photosensing behaviors of hydrothermally grown ZnO nanorods	July 2014	Vol. 034311, Pp.116
T. Majumder, J. J. L. Hmar, J. N. Roy and S. P. Mondal,	Spectral Dependent Photoelectrochemical Behaviors of CdS Sensitized ZnO Nanorods	August 2015	Vol. 15, Pp. 1
S. Roy, A. K. Katiyar, S. P. Mondal, S. K. Ray, K. Biradha,	Multifunctional White-Light-Emitting Metal–Organic Gels with a Sensing Ability of Nitrobenzene	July 2014	Vol. 6 (14), Pp. 11493
S. Bera, S. P. Mondal, D. Naskar, S. C. Kundu, S. K. Ray	Flexible and transparent nanocrystal floating gate memory devices using silk protein	May 2014	Vol. 15, Pp.1767

S. K. Mandal, P. Dey and T. K. Nath	Journal of Vacuum Science and Technology B	July 2014	Vol. 32(4), pp. 041803
Swati Singh, P. Dey, J. N. Roy and S. K. Mandal,	Applied Physics Letter	September 2014	Vol. 105, Pp. 092903
Swati Singh, P. Dey, J. N. Roy and S. K. Mandal	International Journal of Engineering Technology, Management and Applied Sciences	March 2015	Vol. 3 (Special Issue)
Rajesh Debnath, P. Dey, J. N. Roy and S. K. Mandal,	International Journal of Computer & Mathematical Sciences	March 2015	Vol. 4(Special Issue)
F. Djeghloul, P. Dey, A. Hallal, E. Urbain, S. Mahiddine, M. Gruber, D. Spor, M. Alouani, H. Bulou, F. Scheurer, W. Weber	Phys. Rev. B	April 2014	Vol. 89, pp.134411
A. Choudhury, B. K. De, A. Guha and R. Roy	<i>Journal of Geophysical Research (Space Physics)</i> , (American Geophysical Union)	January 2015	Vol 120, pp. 778
A. Guha, B. K. De, P. Dhar, T. Banik, M. Chakraborty, R. Roy, A. Choudhury, M. M. Gogoi, S. S. Babu and K. K. Moorthy	<i>Aerosol and Air Quality Research</i> (Taiwan Association for Aerosol Research)	October 2014	Vol 15 (3), pp 786
De B.K., Chakraborty M., Roy R. and Guha A.	<i>Bulletin of the Astronomical Society of India</i>	June 2014	Vol 42, pp. 1
Saha A., Guha A., De B.K., Roy R., Choudhury A., Banik T., Dhar P. and Chakraborty M.	<i>Advances in Space Research</i>	August 2014	Vol 54 (4), pp. 617
B. Saha, R. Thapa, N. S. Das, and K.K. Chattopadhyay	Thin Solid Films	July 2014	Vol 562, Pp. 37
P. Bhowmik, J. N. Roy and T. Chattopadhyay	Optics Communication	November 2014	Vol.331 Pp. 14
J. N. Roy and P. Bhowmik	Optics Communication	August 2014	Vol.325 Pp. 144
P. Bhowmik, J. N. Roy and T. Chattopadhyay	Optik-International Journal for Light and Electron Optics	August 2014	Vol.125 Pp. 3798
Jayanta Kumar Rakshit, Jitendra Nath Roy	Optics Communication	June 2014	Vol.321 Pp. 38

In Proceedings of International Conference:

Name of the Conference	Place of the conference	Name of the Participants	Date/ Duration
Photonics 2014: 12th International Conference on Fiber Optics and Photonics,	IIT Kharagpur, India	J. J. L. Hmar	13- 16 December, 2014
The First International Conference on "Emerging Materials: Characterization & Application"	Central Glass and Ceramic Research Institute (CGCRI), Kolkata , India.	S. P. Mondal	4-6 December, 2014
The First International Conference on "Emerging Materials: Characterization & Application"	Central Glass and Ceramic Research Institute (CGCRI), Kolkata , India.	T. Majumder	4-6 December, 2014
International Conference on Emerging Trends of Engineering, Science, Management and its Applications) (ICETESMA-15	Jawahar Lal Nehru University, Delhi (2015)	Swati Singh, P. Dey, J. N. Roy and S. K. Mandal	01 March, 2015
International Conference on Emerging Trends of Engineering, Science, Management and its Applications (ICETESMA-15)	Jawahar Lal Nehru University, Delhi (2015)	Rajesh Debnath, P. Dey, J. N. Roy and S. K. Mandal	01 March, 2015
The First International Conference on Emerging Materials: Characterization & Application EMCA-2014	Central Glass and ceramic Research Institute, Kolkata	A. Thakur	03 days
International Conference on Fibre Optics and Photonics	IIT KGP	P.Bhowmik	13 th -16 th December 2014
9 th IEEE/IET International Symposium on Communication systems, Networks and Digital Signal Processing	Manchester Metropolitan University	J.N.Roy	24 th -27 th July 2014

Books Published:

Name of the Authors published	Title of the Books	Date of publication of the Book	Issue/ Volume No./ Page No.
P. Dey and S. K. Mandal	Spintronics For Beginners	November, 2014	ISBN No. - 978-3-639-66375-4
R. Roy	Investigations of Lightning and Thunderstorms over North East India	16.10.2014	ISBN No. 978-3-659-61048-6

Patent Published

<i>Inventor Name</i>	<i>Year</i>	<i>Title</i>	<i>Published source</i>	<i>Patent version no.</i>	<i>Patent application no.</i>
Suvra P.Mondal	2014	Miniaturized gas sensor device and method	US Patent		14/212006

16.6 Other Activities :

Department has been granted Rs.1.1 crore Under FIST Project by DST (Govt. of India)

- (i) Dr. B. Saha performed his duties as Assistant Controller of Examination, NIT Agartala.
- (ii) Dr. B. Saha appointed as a paper setter of Tripura Public service commission.
- (iii) His Excellency, Governor of Tripura appointed Dr. Biswajit Saha, as a technical expert for examining the technical security features in hologram, to be procured by Government of Tripura.

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.

The Department has eight 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:

Sl. No.	Name of the Laboratories	Maximum Batch Size	No. of Experiments	
			Prescribed	Conducted
1	Metallographic	6	6	6
2	Non Traditional Machining	20	7	7
3	CNC automation & Robotics	20	7	7
4	Ergonomics & Condition Monitoring	15	6	6
5	CAD/CAM	30	7	7
6	Metal Forming and Metal Casting	20	6	6
7	Mechanics of Machine laboratory	15	5	5
8	Mechatronics Laboratory	15	5	5
9	Quality Engineering Laboratory	15	6	6



PICTURE OF CAD/CAM LABORATORY

17.4 Faculty and their Activities:

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

Sl. No.	Co-ordinators	Title	Period
Workshops			
1.	Dr. G.R.K Sastry, Prasenjit Dutta & Sujoy Chakraborty	Advances in Manufacturing Technology and Mechatronic System	Two days

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.	Dr. G.R.K Sastry, Dr. R.N. Barman, Sujoy Chakraborty, Bishop Debbarma, Dr. U.K. Mandal, Pushparenu Bhattacharjee	Fluid Mechanics	Two Weeks
2.	Mr. Swarup Paul	Digital Geometry	Three days
3.	Mr. Swarup Paul	Soft Computing for Real World Application	Two days
Conference:			
1.	Dr. G.R.K Sastry & Prasenjit Dutta	2015 International Conference on Robotics, Mechanics & Mechatronics (ICRMM-2015)	Three days
2.	Dr. G.R.K Sastry	International Conference on Combustion and Energy Utilisation	Five days

3.	Dr. R.N Rai	4 th International Conference on Advances in Solidification Processes	Four days
4.	Dr. U.K Mandal, Kishan Choudhuri & Prasenjit Dutta	International Conference on Computer Science and Mechanical Engineering (ICCSME)	One day
5.	Dr. U.K Mandal & Kishan Choudhuri	International Conference on Emerging Trends	Two days
6.	Mr. Nabarun Biswas	International Conference on Thermal Engineering (BSME-ICTE)	Two days
7.	Mr. Nabarun Biswas	National Conference on Practical Engineering & Design Methodology to Chemical and Textile Engineering	Two days
Short-Term Courses			
1.	Mr. Swarup Paul	Application of soft computing & Optimization Techniques in Engineering & Engineering Science	One Week
2.	Mr. Swarup Paul	Advanced Engineering Optimization through Intelligent Techniques	One Week

Visits Abroad by Faculty:

Sl. No.	Name of Faculty	Country Visited	Date	Purpose of Visit
1.	Dr. R.N Rai	Old Windsor, UK	08/07/14 to 11/07/14	Conference
2.	Dr. G.R.K Sastry	London, UK	29/09/14 to 03/10/14	Conference
3.	Dr. G.R.K Sastry	Singapore	21/03/15 to 23/03/15	Conference
4.	Mr. Prasenjit Dutta	Singapore	21/03/15 to 23/03/15	Conference

Fellowships of Academics and Professional Societies:

Sl. No.	Name of Faculty	Level	Year
ISTE/CSI and others			
1.	Mr. Kishan Choudhuri	i. Associate Member (IEI) ii. Member (ISTE) iii. Member (FOSET)	i. 2000 ii. 2004 iii. 2009
2.	Dr. G.R.K Sastry	i. Associate Member (IEI) ii. Member (ASME) iii. Member (SAE)	2014
3.	Mr. Swarup Paul	i. Associate Member (IEI) ii. Member (ORSI) iii. Member (ISTE) iv. Member (TSI) v. Member (SAE) vi. Member (FOSET)	i. 2001 ii. 2008 iii. 2009 iv. 2011 v. 2009 vi. 2010
4.	Dr. U.K Mandal	Member (IEI)	2014
5.	Mr. Bishop Debbarma	Associate Member (IEI)	2014
6.	Mr. Sujoy Chakraborty	Associate Member (IEI)	2010
7.	Mr. Nabarun Biswas	Associate Member (IEI)	2010
8.	Miss Pushparenu Bhattacharjee	Associate Member (IEI)	2014

17.5 Design and Development Activities :**Brief and specific details of Process/Instruments/Equipment/Software Designed and developed**

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)	Co-ordinators
1.	Estimation of River Runoff in Haora River Basin with the Help of MCDM Environment	Two Years	IEI	3 Lakhs	Dr. U.K Mandal & Nabarun Biswas

Research Publications:

Total No. of papers published in Refereed National Journals	: 02 (Two)
Total No. of papers published in Refereed International Journals	: 09 (Nine)
Total No. of papers presented in National Conference	: 01 (One)
Total No. of papers presented in International Conferences	: 13 (Thirteen)

In Refereed National Journals:

Name of the Authors published in National Journals	Title of the Journals	Date of publication of the paper	Issue/Volume No./Page No.
Dr. R.N. Rai	Indian welding journal	1 January, 2015	Volume 48
Mr. Swarup Paul	Journal of Biofuels	2014	Volume 5

In Refereed International Journals:

Name of the authors published in International Journals	Title of the Journals	Date of Publication of the Paper	Issue/Volume No./Page No.
Dr. G.R.K Sastry	International journal of hydrogen energy	14/04/14	Vol-3 9
Dr. G.R.K Sastry	International journal of hydrogen energy	24/10/14	Vol-39
Dr. G.R.K Sastry	International journal of hydrogen energy	15/05/2014	Vol-39
Dr. G.R.K Sastry	Energy	Article in Press	-
Dr. Vidyut Dey	Precision Engineering	11/11/2014	Vol-40
Mr. Kishan Choudhuri	Journal of Scientific and Industrial Research	01/05/2014	Vol-73
Mr. Sujoy Chakraborty	Precision Engineering	11/11/2014	Vol-40
Mr. Sujoy Chakraborty	Journal of Scientific and Industrial Research	01/05/2014	Vol-73
Mr. Debashis Podder	The Indian Institute of Metals	24/02/2015	ISSN 0975-1645

In Proceedings of National Conference:

Name of the Conference	Place of the Conference	Name of the participants	Date/Duration
National Conference on Practical Engineering & Design Methodology to Chemical and Textile Engineering	NIT Agartala	Nabarun Biswas	September (06-07)

In Proceedings of International Conference:

Name of the Conference	Place of the Conference	Name of the participants	Date/Duration
2015 International Conference on Robotics, Mechanics & Mechatronics (ICRMM-2015)	Singapore	Dr. G.R.K Sastry & Prasenjit Dutta	(21-23) March, 2015
International Conference on Combustion and Energy Utilisation	Lancaster, UK	Dr. G.R.K Sastry	(29 Sep- 03 Oct) 2014
International Conference on Recent Advances in Mechanical Engineering & Interdisciplinary Development	Kanyakumari, India	Dr. G.R.K Sastry	(7-8) March, 2014
4 th International Conference on Advances in Solidification Processes	Old Windsor, UK	Dr. R.N Rai	(8-11) July, 2014
International Conference on Computer Science and Mechanical Engineering (ICCSME).	Goa, India	Dr. U.K Mandal, Kishan Choudhuri & Prasenjit Dutta	10 th August, 2014
Proceedings of the International Conference on Chemical Engineering (ICChE2014)	Dhaka, Bangladesh	Mr. Swarup Paul	December 29-30, 2014

International Conference on Emerging Trends	Therekalputhoor, India	Dr. U.K Mandal & Kishan Choudhuri	(26-27) March, 2015
International Conference on Thermal Engineering (BSME-ICTE)	Bangladesh	Mr. Nabarun Biswas	(21-22) December, 2014

Distinguished Visitors to the Departments:

Sl.No.	Name of the Visitors and Designation	Date of Visit	Purpose of Visit
1.	Professor Bijoy Bhattacharya (JU)	(9-10) Jan, 2014	Lecture
2.	Mr. A.J. Banerjee Chief Scientist & Head, Manufacturing Technology Group, (CMERI)	(9-10) Jan, 2014	Lecture
3.	Prof. Anjan Mukherjee (TU)	(13-14) Jan, 2014	Lecture
4.	Prof. P.K. Ray (IIT,KGP)	(13-14) Jan, 2014	Lecture
5.	Prof. Bijan Sarkar (JU)	(13-14) Jan, 2014	Lecture
6.	Dr. Pankaj Biswas Assistant Prof. (IITG)	(30-31) Jan, 2014	Lecture
7.	Prof. U.S. Dixit (IITG)	(30-31) Jan, 2014	Lecture
8.	Prof. T.K. Pal	(30-31) Jan, 2014	Lecture
9.	Mr. S. Mahesh Anand Founder & CEO, SCS India	(20-21)Mar, 2014	Lecture
10.	Prof. C.S.P. Rao (NITW)	(13-14)Mar, 2015	Lecture
11.	Prof. Prasad Krishna (NITK)	(13-14)Mar, 2015	Lecture
12.	Prof. U.S. Dixit (IITG)	(13-14)Mar, 2015	Lecture

17.7 Other Activities :

The Department has one yearly magazine named "Prodozone" where all the B.Tech, M.Tech & PhD students as well as all the faculty members share their articles. The "Student Chapter (IEI)" of Production Engineering division has also been formed recently.

18.0 SCHOOL OF MANAGEMENT

18.1 Introduction:

The School of Management has started its operation by offering PG course 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. The Department facilitates students to undergo paid internships in various reputed government and private organizations viz. NEDFi, SBI, NABARD, ONGC, HDFC, ITC, Senrysa Technologies Pvt. Ltd. etc.

Masters of Business Administration (Full Time) programme 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 department has 06 (six) nos. of dedicated faculty members along with faculties from allied department. Faculties are invited from other reputed institutions and corporate to bring professionalism among the students by blending academic knowledge with corporate skills. All dedicated faculty members are deeply involved in academic, research and administrative responsibilities of the Institute.

18.2 Academic Programme :

Currently, School of Management is offering two year (four semesters) full time MBA programme. This Program aimed at providing in-depth understanding to students in technical, human and conceptual skills necessary for a successful manager with specialization in different functional areas like Financial Management, Marketing Management, Human Resource and System Management. The teaching strategy for this program oriented towards the application of knowledge with live cases and teaching aids. There is a six weeks summer internship programme for students, after completion of first year course to develop business acumen.

18.3 Faculty and their Activities:

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

Sl. No.	Name of Faculty	Title	Period
Workshop :			
	Dr. Sonit Dutta	Entrepreneurship and Business Plan Workshop, Confluence-Indian Institute of Management, Ahmedabad and ICFAI University, Tripura.	October 28, 2014 (1 day)
Short Term Courses(FDP)	Dr. Sonit Dutta	The Art of Case Teaching and Case Writing, ICFAI University, Tripura.	December 22-24, 2014

Visit Abroad by Faculty:

Sl. No.	Name of Faculty	Country Visited	Date	Purpose of visit
1.	Dr. Anirban Dutta	Singapore	24 th to 27 th March'2015	Paper Presentation in Conference

Honours and Awards obtained by Faculty:

Sl. No.	Name of Faculty	Name of Award	Awarded by	Award for	Date
1.	Dr. Anirban Dutta	"Bharat Vidya Shiromani Award-2014"	International Institute of Education & Management, New Delhi	Outstanding Achievements In the Field of Education	22 nd Dec'2014
2.	Dr. Rajib Mallik	"International Gold Star Millennium Award"	Global Achievers Foundation	Outstanding achievements and remarkable role in the field of education,	On 8 th February, 2015

18.4 Design and Development Activities:

At present the development activities are not initiated, but the department is putting effort to initiate personality and soft-skill development programme in the near future.

18.5 Research and Consultancy :

At present sponsored projects and consultancy are not performed, but the Department is very keen to take up these kind of activities in coming years.

Research Publications:

Total no. of papers presented in International Conference : 01
Total no. of Books published (Chapters) : 05

In Proceedings of National Conferences: 02

Name of the conference	Place of the conference	Name of the participants	Date/Duration
Issues and Trends of Governance in Multicultural Societies	Holy Cross College, Agartala(along with Tripura University)	Dr. Rajib Mallik	16th & 17th November, 2013 (2 days)
Issues and Trends of Governance in Multicultural Societies	Holy Cross College, Agartala(along with Tripura University)	Dr. Amlanbrata Chakraborty.	16th & 17th November, 2013 (2 days)

In Proceedings of International Conferences: 01

Name of the conference	Place of the conference	Name of the participants	Date/Duration
International Conference on Management and Behavioral Sciences (ICMBS - 2015).	Singapore	Dr. Anirban Dutta	25-26 March, 2015

Books Chapters Published: 05

Name of the authors published	Title of the books	Date of publication of the Book	Issue/Volume No./Page No
Dr.Rajib Mallik	Indian Education-Progress and challenges, (Role of Management Education for Sustainable society and Sustainable Development: Limits and possibilities)	Gyan Books Pvt. Ltd, [ISBN; 978-93-5128-090-3], New Delhi ,2014,	pp-321-327
Dr.Rajib Mallik	International Financial Reporting Standards(IFRS) on Current Indian Scenario(International Financial reporting Standards and its impact on insurance sector in India)	Anuradha Prakashan, [ISBN; 978-93-82339-67-0.] New Delhi ,2014,	Pp-410-423.
Dr.Rajib Mallik	Indian Education-Dimensions and Success(Status of Management Education In Tripura)	Anmol Publications Pvt. Limited, [ISBN; 978-81-261-6369-4.], New Delhi, 2014,	pp- 169-182.
Dr.Rajib Mallik	Rural Development in India(Employment Guarantee schemes in Rural India)	Avon Publications, [ISBN; 978-93-8183-939-3], New Delhi, 2014,	pp- 237-274.
Dr.Rajib Mallik	Developments in Education in India(Foreign Direct Investment in Education: An Indian Scenario)	Ishika Publishing House, New Delhi 2014.	pp-176-185.

Distinguished Visitors to the Departments

Sl. No.	Name of the Visitors and Designation	Date of Visit	Purpose of Visit
1.	Prof. Partha Pratim Sengupta. Professor, NIT-Durgapur	27-28 April, 2014	External Expert for Grand Viva
2.	Dr. Avijan Dutta, Associate Professor, NIT-Durgapur	10-11May, 2014	External Expert for MBA Admission

3.	Dr. Ranjan Choudhury, Associate Professot, NITIE-Mumbai	20-21 November, 2014	External Expert for SIP
4.	Dr. Gautam Bandhopadhyay, Associate Professor, NIT-Durgapur	25-27 April, 2015	External Expert for MBA Admission

18.6 Institute –Industry Collaboration :

One day industrial visit was made on 16-02-2015 at Pran Beverages (India) Pvt. Ltd. Bodhjung Nagar, Agartala to get insight into the various production and marketing aspects.



Pran Beverages (India) Pvt. Ltd., Bodhjung Nagar, Agartala

18.7 Other Activities :

The faculties of the Department actively participate in the co-curricular activities in the Institute like Student's Admission, Placement etc.

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	2013-2014	2014-2015	Remarks
A. Collections:			
Books	84317 (As per Accession register)	84323 (As per accession register : general=59546 & BookBank=24777)	Physical book of 2013-14 is 68403 and 2014-15 is 68409 . 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	07	04	59 No's M.Tech Dissertation added in 2014-15
Pamphlets and Reports	01	Nil	
Current Periodicals by Subscription	8	10	2 more Hindi newspapers added in 2014-15
Current Periodicals by Exchange/ Gift	238	310	
Total	84571	84647	
B. Membership:			
Staff	19	04	
Faculty	22	53	
Students	1059	991	
Total	1100	1048	
C. Services : Circulation			
Number of Readers visited	57715	51165	
Number of Books/ Journals issued	20353	19562	19562 No's of books have been issued in 2014-15
Xerox charges collection	Rs.2631	Rs. 2613	

D. Reservation of Books			
Registered	585	Nil	
E. Loans			
Department Loan (Under issue)	15	Nil	
F. Literature Search			
CD-ROM search by users	2	Nil	
G. Reprint Service			
Reprints received from other Institutions	56	Nil	
H. Reprography Service			
Number of Xerox copies supplied	3758	3730	
I. Expenditure on			
Books Printed	Rs.4270847	Nil	
Printed Journals	Rs.13903	Rs.13109	Rs. 13109 up to Dec' 2014
E-books	Proposed	Nil	(Science Direct 9 subject collection was subscribed in 2014-15)
E-journals	Proposed	USD 100065.27	
J. New Journals Added	Nil	Nil	No printed journal added in 2014-15

19.3 New Facilities/ Equipments added :

During the financial year 2012-2013 NIT library has gone through tremendous developments, e.g. digital library, one for students and the other one for research scholars and faculties with 55 seating capacity has been started in Aug'12. And during this period NIT Agartala has subscribed 62036 e-books and 14084 e-journals. Students, faculties and research scholars can access e-books & e-journals covering all the fields of science & technology.

RFID (Radio Frequency Identification) technology has been introduced in NITA library in July '12. This technology includes self check-in and self check-out system which is going to be started very soon. At present 25000 books are tagged under RFID technology and there is a plan to cover all the remaining books and new collections under RFID system, so that library can be fully computerized.

2014-15 : Data entry completed for 23328 No's of books 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.

19.4 Future Plan :

- i. Full 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.

19.5 Other activities:

Seminar cum workshop in joint collaboration of NITA and ISI, Kolkata on Building Network Databases in North Eastern Region of India - 2012-13.

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
Gargi (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 50 seats are sanctioned for Girls and it will start 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 routinised student-life and engage themselves in organizing various programmes. 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 bad 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 three committee viz. Cultural Committee, Sports Committee and Technical 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:

NIT Agartala has regular physical activities like Warming-up, Yoga, Meditation and Multi Gym Fitness programmes.

2014-15:

The Athletic team of NIT Agartala participated in the Inter NIT Athletic meet and won one Gold and Two Bronze Medal in this meet, which was organized by NIT Rourkela during 23rd to 25th January 2015.

The Football team of NIT Agartala participated in the Inter NIT Football tournament (Men's) organized by the NIT Warngal from 5th to 8th February 2015.

The Cricket team of NIT Agartala participated in the Inter NIT Cricket tournament (Men's) organized by the NIT Bhopal from 13th to 15th February 2015.

A 17 member contingent from NIT Agartala took part in the Inter NIT meet at NIT Surat during 9th February to 12th February, 2014. Competitions were held in basketball (men's & women's), Badminton chess (men's & women's), cricket, and table tennis

In January, 2014, Annual Sports Week of NITA was organized. The Annual Athletic meet held during 23rd to 26th March, 2014. Students, both boys and girls, took part in athletics meet. In this Events faculties, staff and their family also Participated.

Every year Inter Departmental Sports Competition is organized and all the events held throughout this academic calendar.

Event Organized

NIT Agartala has organized Inter NIT Sports (Kho-Kho & Hand Ball) and Cultural (Debate & Quiz) events from 19th to 21st February 2015 for the first time.

NIT Agartala also Organized State meet Basket Ball (Men, Women and youth) from 27th to 29th December 2014.

20.7 Techno-Cultural Activities (ADVAITAM 2015):

This year the students of NIT Agartala organized the **Annual Techno-Cultural** festival of the institute called **ADVAITAM 2015** which witnessed spontaneous participation of students. 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. Prof. (Dr.) S. S. Murthy (Retd. Prof. from IIT Delhi), SrihariUdupu and RakeshGodwani like entrepreneurs had graced the festival by delivering their motivational talks.

In the year 2015, **ADVAITAM 2015** was held from 11th February to 15th February, 2015. During this program, Saktipunj dance troop from NITA, Root musician Mriganabhi and his troops from Kolkata, Sunburn DJ band from Goa entertained the campus with their scintillating

performances. The fest witnessed a Mega Star night with the presence of Bollywood singer Niraj Sridhar and his troops.

20.8 Other Activities:

The students of NIT-A participated 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, Photography, Dance, Robotics, Magazine, Fine Art, Drama Club, Soft Skill development, Programming, Meditation, Science and Trekking Clubs.

21.0 TRAINING & PLACEMENT AND OTHER FACILITIES

21.1 Training and Placement:

The Training & Placement Cell of NIT Agartala is instrumental in arranging both in-campus & off-campus placement drives for UG & PG students. T&P Cell 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 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.

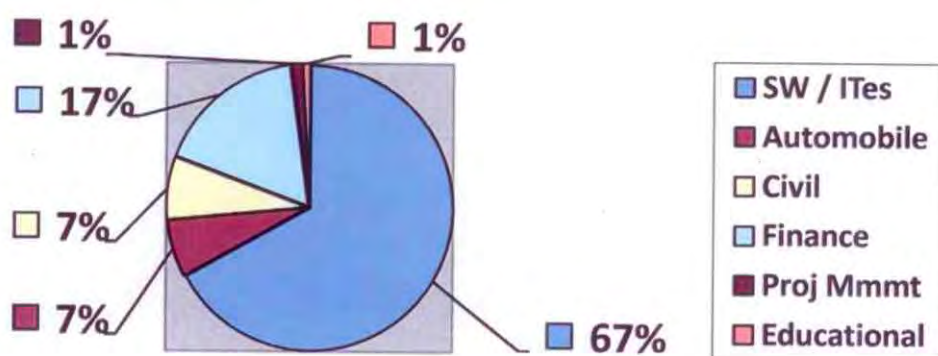
Details of the number of students placed during the period under report are given below as against those registered during 2014-2015:

❖ Branch wise Selection for Batch 2014-15:

Sl No.	Branches (Under Graduate Course)	Number of eligible Students	Nos. of eligible Students offered	Total number of offers
1	Chemical Engineering	25	15	15
2	Civil Engineering	106	53	60
3	Computer Science Engineering	48	48	64
4	Electrical Engineering	80	38	42
5	Electronics & Communication Engineering	65	58	78
6	Electronics Instrumentation Engineering	24	15	16
7	Mechanical Engineering	67	46	58
8	Production Engineering	28	16	17
	Total	443	289	350

❖ Percentage of students placed: 82.61 %

❖ Sector wise Selection for Batch 2014-15:



❖ **Organization wise Selection for Batch 2014-15:**

Branch	Company	B.Tech level
CHE,CSE,EE,ECE	MuSigma	15
CSE, ECE	Polaris	21
CE,EIE	L&T ECC	15
ME,CHE,CE,CSE,ECE,EE,PE	Infosys	130
CSE,EE,ECE,CE	L&T Infotech	25
ME	Fiat	2
ME,CSE,EE,ECE	OFSS	7
MCA	IBM	0
ME	Maruti Suzuki	3
CSE	Infoedge	2
All	HDFC Life	32
ME,PE	Tata Motors	7
ECE	Ford IT	5
ME,EE	Kirloskar	5
CSE,ECE,ME	Nucleus Software	5
CSE,ECE	Nokia	12
CSE,EE,ECE,ME,PE	Virtusa	7
CSE	Atos	3
CSE,ECE	Reliance Jio	9
CE,ME	Atkins Global	3
ME	Concept Education	2
EE	KEC International	2
CHE	Resonance	1
ME	Ashok Ley Land	1
CE	ITDC	3
CE,EE,EI,ME	Fluor Daniel	8
MBA	Axis Bank	0
CSE	Wipro BPS	2
CSE,EI,ECE,CHE,ME	Ways2Capital	6
MBA,CSE,ME,EE,PE,ECE	Epic Research	10

CSE:Computer Science & Engg, ECE:Electronics & Communication Engg, ME:Mechanical Engg, PE:Production Engg, EE:Electrical Engg, EI:Electronics & Instrumentation Engg, CE:Civil Engg, CHE:Chemical Engg

21.2 Financial Assistance to Students:

Different types of Stipend/ Scholarship were available for the students of this institute based on the guidelines of State Government/ Central Government subject to the fulfillment of academic and other criteria. Upon conversion of Tripura Engineering College into NIT Agartala, modalities for the stipend/ scholarship have to be finalized for the students.

DIFFERENT CATEGORY OF STIPEND / SCOLERSHIP/ FINANCIAL ASSISTANTSHIP TO THE STUDENTS

Sl. No	Category of Stipend / Scholarship		Rate of stipend P.M.(Rs.)	Income/ other bar	No. of Students	Duration of the Stipend / Scholarship
1	S C Stipend	Hosteller	1200	2.5 lakh	175	10 month

		Days' Scholar	550			
2	S T Stipend	Hosteller	820	2.5 lakh	128	10 month
		Days' Scholar	530			
3	OBC Stipend	Hosteller	750	1.0 lakh	69	10 month
		Days' Scholar	350			
4	N E C Stipend	---	1200	---	35	10 month
5	Post Madhyamik Stip.	---	450	---	125	10 month

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 NIT Agartala 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 major works have been completed.

Sl. No.	Name of the Works	Rupees in Lakhs
1.	Construction of Boys and Girls Hostels, Dining and Common Rooms.	11566.44 (Including deviation)
2.	Construction of Market Complex.	400.00
3.	Internal Road Development.	1441.94
4.	Construction of Laboratories cum Canteen Building, Workshop and Academic Building. Construction of G+6 Academic Building	5178.16
5.	Construction of Staff Housing, Guest House, Director's, Residence.	6046.49 (Including deviation)
6.	Construction of Central School.	2395.00
7.	Construction of Administration Block I & II and Seminar Hall.	3913.02
8.	Construction of School of Management Block.	3637.28

Work in progress :

The following works are in progress and will be completed very soon.

Sl. No.	Name of the Works	Rupees in Lakhs
1.	Construction of Computer Center and Central Library.	6689.00
2.	Construction of New Housing (H4B two blocks consisting of 48 flats).	2698.54
3.	Construction of duplex housing (10 nos.).	1055.50
4.	Additional Floor of Central School.	995.85
5.	Construction of 1500 Capacity Boys Hostel.	15243.00
6.	Construction of Sports Complex at NIT, Agartala	5410.819
7.	Area development works in and around Central Plaza, Academic Zone at NIT Agartala.	229.732

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 Guest House :

There is one Old Guest House at NIT Agartala 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.

22.5 Hostel :

Boys Hostel : Arryabhata: 1000 Capacity, Howrah: 128 Capacity, Dhalai: 92 Capacity, Goumati: 128 Capacity, Girls Hostel: Gargi: 463 Capacity.

22.6 Bank : 1. State Bank of India, 2. Canara Bank, 3. Tripura Gramin Bank are operating in the NIT Agartala campus.

22.7 Post Office : There is a Sub-Post Office in the NIT Agartala Campus.

23.0 TEQIP - II

Project Progress – Expenditure Statement

Fund Received	Status upto 31st March 2015 Rs. (in lakh)
GRANT	
1 st Installment : 26/09/2011	200.00
2 nd Installment : 25/09/2012	393.00
3 rd Installment : 27/02/2014	250.00
4 th Installment : 06/08/2014	100.00
5 th Installment : 02/02/2015	57.00
	1000.00
Interest	40.01
Total (A)	1040.01
Expenditure Incurred Upto 31.03.2015 (B)	820.74
Unspent Balance (A-B)	219.27
% of Utilization of fund on Released fund by NPIU (on Rs.1000 Lakh) :	82.07 %

Project Progress – Expenditure Statement

Sl. No	Category	Activity	Expenditure up to March 2015 (Lakh)
1	Procurement	Procurement of goods (equipment, furniture, books, LR's, software and minor items) and civil works for improvement in teaching, training and learning facilities	Total: Rs. 216.98
2	Assistantships	Provide Teaching and Research Assistantships to increase enrolment in existing and new PG programmes in Engineering disciplines	Total: Rs. 461.89 (a) Expenditure on Masters students enrolled with TEQIP teaching assistantship: Rs. 206.67 (b) Expenditure on PhD Students enrolled with TEQIP research assistantship : Rs. 255.22
3	R&D	Enhancement of R & D and institutional consultancy activities	Total: Rs. 9.38
4	FSD	Faculty and staff development for improved competence	Total: Rs. 101.06
5	I-I-I- Cells	Enhanced interaction with Industry	Total: Rs. 0.65
6	Capacity development	Institutional Management Capacity enhancement	Total: Rs. 5.01
7	Reforms	Implementation of Institutional academic reforms by NBA for UG Program of CE,EE,ME	Total: Rs. 13.20

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. 12.57
		TOTAL	Rs. 820.74

Project Progress

Faculty/Students	Particulars	2011-12 (Nos.)	2012-13 (Nos.)	2013-14 (Nos.)	2014-15 (Nos.)
Faculty	Attended Conference / Workshop, etc.	0	18	56	54
Student	Attended Conference / Workshop, etc.	1	29	117	68
IIM Training attended by Administrator		0	1	5	7

Conference attended by faculty and students in abroad are as follows:

	Particulars.	2011-12	2012-13	2013-14	2014-15
Faculty	Attended Conference	Nil	Nil	2	5
Student	Attended Conference	Nil	Nil	5	Nil

Workshop/Training conducted by Faculties from several Department under TEQIP-II.

2011-12(Nos.)	2012-13 (Nos.)	2013-14 (Nos.)	2014-15 (Nos.)
Nil	04	05	01

Patent :

We provided fund for filling 12 (Twelve) patent. 2 patents from ME Department, 1 patent from ECE Department, 8 patents from E.E. Department and 1 patent from Chemical Engineering Department.

Details of patent filled are as follows:

Sl. No.	Fund provided to the following faculties.	Designation with Department.	Patent title/patent details.
1.	Dr. Ajoy K. Chakraborty,	Associate Professor, Department of E.E. of NIT Agartala	"Capacitor cascaded voltage converter for charge and energy storage"

2.	Dr. Ajoy Kumar Das,	Associate Professor, Department of M.E., NIT Agartala.	"numerical scheme to model Internal Combustion Engine parameters"
3.	Dr. Bidyut Kr. Bhattacharyya,	Professor, Department of E.E., NIT Agartala.	"PDSO (Pocket Digital Storage Oscilloscope)"
4.	Dr. Bidyut Kr. Bhattacharyya,	Professor, Department of E.E., NIT Agartala.	"Switching Noise Minimization in Silicon Chip Through Proper Current Profile"
5.	Dr. Bidyut Kr. Bhattacharyya,	Professor, Department of E.E., NIT Agartala.	"Power Supply Noise Reduction Using Clock Gating With Variable Frequency as Global Clock"
6.	Dr. Bidyut Kr. Bhattacharyya,	Professor, Department of E.E., NIT Agartala.	"Mobile to mobile charger"
7.	Dr. Bidyut Kr. Bhattacharyya,	Professor, Department of E.E., NIT Agartala.	"Multi Level Multi axis Auto tracking of Solar Tree based Photovoltaic Power Generation System"
8.	Dr. Bidyut Kr. Bhattacharyya,	Professor, Department of E.E., NIT Agartala.	"REPLACEMENT OF BATTERY FOR LOW POWER HAND HELD DEVICES"
9.	Dr. Subhadeep Bhattacharjee,	Assistant Professor, Department of E.E., NIT Agartala.	Patent work is focused on daylight harvesting for energy conservation.
10.	Dr. John Deb Barma and Mr. Arindam Majumder,	Assistant Professor, Department of M.E., NIT Agartala.	"A POLISHING SYSTEM FOR POLISHING OF SURFACE OF OBJECTS SUCH AS THE INCENSE STICKS".
11.	Dr. Srimanta Ray,	Assistant Professor, Department of Chemical Engineering of NIT Agartala.	"A method for coagulation of rubber latex".
12.	Dr. Aniruddha Mondal,	Assistant Professor, Department of E.C.E. of NIT Agartala.	"TiO ₂ zigzag nanostructure as sensitive UV detector".

24.0 FINANCE & ACCOUNTS

24.1 Analysis of Plan and Non-Plan Grants:

	(Rs. In Lakhs)	
Head	2014-15	2013-14
1. Non- Plan		
Income		
Grant from MHRD	1500.00	1900.00
Total	1500.00	1900.00
Expenditure		
Recurring	4092.54	3777.56
Total	4092.54	3777.56
2. Plan		
Grant from MHRD	7900.00	9925.00
Corpus Fund Transfers		
Total	7900.00	9925.00
Expenditure		
Non-Recurring	8524.23	8552.22
Total		

24.1.1 Plan Fund:

Plan	(Rs in Lakhs)
Opening Balance	: 531.27
Grant Sanctioned During 2013-2014	: 7900.00
Funds from other sources	: 1320.35
Total Available	: 9751.62
Capital Expenses during 2013-2014	
Building & Construction	: 7673.91
Furniture & Fixtures	: 219.15
Equipments	: 628.67
Other Exp.	: 2.50
Total Utilized	: 8524.23
Unutilized Balance	: 1227.39

24.1.2 Non-Plan Fund:

<u>Non – Plan</u>	(Rs in Lakhs)
Opening Balance	: 741.87
Grant Sanctioned during 2014-2015	: 1500.00
Funds from other sources	: 2218.07
Total Available	: 4459.94
Expenditure during 2014 – 2015	
Pay & Allowances	: 2161.49
Recruitment Benefits	: 320.00
Health Services	: 7.59
Student Scholarship	: 443.61
Administrative Expenses	: 413.83
Student Support Activities	: 56.49
House Keeping & Estate Maintenance	: 436.76
Water / Electricity	: 252.77
Total Utilized	: 4092.54
Unutilised Balance	: 367.40

24.2 Establishment Expenditure:

Sl.No	Head	Amount (In Lakhs)
1	Pay & Allowance	2161.49
2	Retirement Benefits	320.00

Audit Report & Annual Accounts 2014 -2015



No. ECPA/SAR-NIT/2014-15/393

भारतीय लेखा परीक्षा और लेखा विभाग,
INDIAN AUDIT AND ACCOUNTS DEPARTMENT
महानेखाकार (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

Date:- December 07, 2015

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

Subject:- *Separate Audit Report on the accounts of the National Institute of Technology (NIT), Agartala for the year 2014-15.*

Sir,

In inviting a reference to your letter No. F. NITA.4 (10-Accounts)/2010/Vol-2/9814 dated 13-11-2015 on the subject cited above, I am sending herewith the modified Separate Audit Report on the accounts of the National Institute of Technology, Agartala for the year 2014-15 which is duly approved by the Accountant General (Audit).

Encls:- As above.

Act. RKM Plene
10.12.15

Yours faithfully,

10.12.15

Sr. Audit Officer/ ECPA (HQ)

Separate Audit Report of the Comptroller and Auditor General of India on the Accounts of National Institute of Technology (NIT), Agartala for the year ended 31 March 2015

We have audited the attached Balance Sheet of National Institute of Technology (NIT), Agartala as at 31 March 2015, 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 NIT's management. 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 of India (CAG) 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/CAG'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 disclosures in the financial statements. 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 explanation, 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 and Receipts and Payments Account dealt with by this report have been drawn up in the format prescribed by the Ministry of Human Resource Development, 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, in so far as it appears from our examination of such books.

iv. We further report that:

A. Balance Sheet

A.1.1 Current Liabilities and provision (Schedule-3)- ₹ . 42.17 Crore

(I) The above includes Sundry Creditors of ₹ 26.50 lakh pertaining to the procurement of machinery and equipment for which neither the goods have been received nor billing was done by the concerned parties.

Thus, providing for 'Sundry Creditors' without any supply/billing made by the agencies resulted in overstatement of "Sundry Creditors" under the head "Current Liabilities and Provisions" and also overstatement of "Stock in transit" under the head "Current Assets, Loan Advances etc." by ₹ 26.50 lakh.

(II) The above does not include bills valued ₹ 40.00 lakh received from four suppliers during 2013-14 against supply of printed books. This resulted in understatement of Sundry Creditors under the head 'Current Liabilities and Provisions' by ₹ 40.00 lakh and understatement of Current Assets by the same amount.

A.1.2 Earnest Money and Security Deposit- ₹ 2.95 crore

The above includes an amount of ₹ 0.51 crore being interest earned on Fixed Deposit and Savings bank accounts during 2013-14 and 2014-15, maintained for Earnest Money and Security Deposit received from various agencies. This resulted in overstatement of Current Liabilities by ₹ 0.51 crore and understatement of 'Income' and Capital Fund to that extent.

A.2.1 Loans, Advances & Deposits (Schedule-8) ₹ 76.95 lakh

The above does not include "Advances to Employees" (Non-interest bearing) of ₹ 23.23 lakh advanced for implementation of different programmes, works, travelling expenses etc. and remained outstanding at the end of 2014-15 but booked as final expenditure.

This has resulted in understatement of "Loans and Advances" and overstatement of Expenditure by ₹ 23.23 lakh each.

A.2.2 Current Assets (Schedule 7)

Bank Balance (Plan Fund) - ₹ 18.11 crore

i) ₹ 34.94 crore was credited in the Cash Book on 31-03-2015 on the basis of the Sanction Memo of the Ministry and cheque amounting to ₹ 20.54 crore was issued but not disbursed. Credit of funds and issue of cheques on the basis of Sanction Memo. was irregular. Thus, Cash Book balance was overstated by ₹ 34.94 crore and plan expenditure was overstated by ₹ 20.54 crore.

ii) Three cheques valued ₹ 16.65 lakh issued during the period from 31 March 2010 to 2 August 2012 were not presented in the Bank by the recipient for encashment and reflected in the Bank Reconciliation Statement, prepared as on March 2015, as 'cheque issued but not presented into Bank for payment'. However, these cheques being time barred were required to be reversed.

This has resulted in understatement of Bank Balance and Current Liabilities by ₹ 16.65 lakh each.

A.2.3 Current Assets (Schedule 7)

Bank Balance (Non-Plan Fund) - ₹ 4.22 crore

i) ₹ 5.00 crore was credited in the Cash Book on 31-03-2015 on the basis of the Sanction Memo of the Ministry and cheque amounting to ₹ 77.86 lakh was issued but not disbursed. Credit of funds and issue of cheques on the basis of Sanction Memo was irregular. Thus, Cash Book balance was overstated by ₹ 5.00 crore and non-plan expenditure was overstated by ₹ 77.86 lakh.

ii) Cheques valued ₹ 1.56 lakh issued during the period from February 2014 to December 2014 were not presented in the Bank by the recipient for encashment and reflected in the Bank Reconciliation Statement, prepared as on March 2015, as 'cheque issued but not presented into Bank for payment'. However, these cheques being time barred were required to be reversed.

Consequently, Cash Book balance (bank segment) and Current Liabilities were understated by ₹ 1.56 lakh each.

A.3.1 Fixed Assets (Schedule 4)

(I) Plan Fund ₹ 77.68 crore

(a) This includes ₹ 11.58 lakh incurred on Electrical Installations and ₹ 2.51 crore incurred on Type-II and Type-III Quarters capitalised during the year which were in progress. This resulted in overstatement of Fixed Assets and understatement of 'Capital Work in Progress'.

(b) This includes ₹ 12.08 lakh placed to State Bank of India in February 2014 under Letter of Credit arrangement for purchase of Machinery and Equipment from Japan in exchange of Japanese Yen and wrongly capitalised. This resulted in overstatement of Fixed Assets and understatement of Bank balance under Current Assets.

(II) (a) Capital Work in Progress (Plan Fund) - ₹ 546.27 crore

Eighteen works valued at ₹ 244.52 crore were completed and taken over during May 2010 to March 2015 but all these works appeared under "Capital works in Progress". This resulted in overstatement of "Capital Work in Progress" by ₹ 244.52 crore and understatement of Fixed Assets to that extent.

b) Capital Work in Progress (Non-Plan Fund) - ₹ 5.05 crore

Three works valued at ₹ 57.00 lakh were completed and taken over during December 2011 to March 2015 but all these works appeared under 'Capital works in Progress'. This resulted in overstatement of 'Capital Work in Progress' by ₹ 57.00 lakh and understatement of Fixed Assets to that extent.

(III) Machinery and Equipment (Plan Fund) - ₹ 46.11 crore

Expenditure of ₹ 1.49 crore incurred for the work "supply, installation, testing and commissioning of 15 lifts in 'Staff housing, Academic Block and Director's Bungalow' was wrongly booked under Machinery and Equipment during 2013-14. Rectification entry was done in 2014-15 and the amount was wrongly booked against 'Construction of Central Stores' under Schedule-2 which resulted in overstatement of expenditure for 'Const. of Central Stores' and consequent understatement to 'Staff housing, Academic Block and Director's Bungalow'.

A 4 General

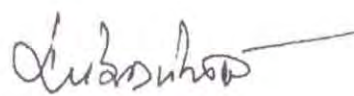
Institute has made provisions for retirement benefits on accrual basis instead of actuarial basis as prescribed in Accounting Standard 15 issued by ICAI and new format of accounts issued by MHRD.

B. Grant-in-aid

During the year the Institute had received ₹ 94.00 crore (₹ 79.00 crore under Plan and ₹ 15.00 crore under Non-plan) from the Ministry of Human Resource Development and ₹ 11.26 crore from DoNER. Last years unutilised balance was ₹ 12.73 crore {Plan: ₹ 5.31 crore; Non-plan: ₹ 7.42 crore}. Further, internal income of the Institute was ₹ 24.12 crore. Against the total availability of ₹ 142.11 crore, the Institute could utilise only ₹ 126.17 crore leaving unspent balance of ₹ 15.94 crore (Plan: ₹ 12.27 crore and Non Plan: ₹ 3.67 crore) as on 31 March 2015.

- v. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, 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, 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 2015.
- b. In so far as it relates to Income and Expenditure Account of the deficit for the year ended on that date.

Place:
Date:


Accountant General (Audit)

Annexure to the Separate Audit Report on the accounts of the National Institute of Technology, Agartala for the year 2014-15

1. Internal control system was inadequate due to the fact:

- (i) Rectification entries to the errors and omissions reported in the SAR 2013-14 were not carried out by the Institute in full in the Annual Accounts 2014-15.
- (ii) Supply order/Purchase order Register were not maintained by the Institute and issue of revised/amended supply order were not disclosed by the authority during the period of audit of accounts.
- (iii) Advances were booked as final expenditure and cash advances were not recorded in the cash book.
- (iv) Balances held under Sundry Creditors, Sundry Debtors, Advances to RD Department, CPWD, EPIL and Other Agencies, etc were not brought forward from the previous years and Leger Adjustments were done without making any reference to the year of creation of such Liabilities and making any reference of awarding advances to the above agencies, which makes the adjustment entries unreliable to audit because of possible mistakes and omissions.
- (v) Outstanding Liabilities, Sundry Creditors, Sundry Debtors, Advances to different Agencies etc. should be grouped under a Single Individual Ledger Account to make the verification of closing balances easier.
- (vi) 'Classification of Expenditure' was not made in the Cash Book from where Ledger entries were made. As a result, mis-classification of Ledger Entries leading to wrong booking of expenditure in the Annual Accounts could not be ruled out in audit.
- (vii) Lack of coordination between the Works-wing and the Accounts-wing was evident from the fact that 21 works though completed and taken over during the period from 05/2010 to 03/2015 by the Works-wing but reported as Work-in Progress in the Annual Accounts 2014-15.
- (viii) For day to day administrative functions the Institute is largely dependent on the contractual staff, constituting 85 per cent of the total strength, due to non-making of regular appointment despite having the sanctioned posts from the Ministry of Human Resource Development in 08/2011. Non assurance of job security causing frequent changes in the key posts which adversely affected the concept of continuity leading to absence of job responsibility, inordinate delay in furnishing of records to audit etc. as noted during audit.

2. Adequacy of internal audit system:

Separate Internal Audit Wing has not been constituted till date although internal audit of the Institute was stated to be conducted by an Audit Officer but no audit report was made available to audit.

3. System of physical verification of fixed assets

Physical verification of Fixed Assets was under process (August 2015) and no report could be produced to audit.

4. System of physical verification of inventory

Physical verification of stationeries and consumables were not done during 2014-15. Matter was brought to the notice of the Management in 2013-14 too.

**NATIONAL INSTITUTE OF TECHNOLOGY
JIRANIA, AGARTALA**

INTERNAL AUDIT REPORT

Date of Commencement of Audit: 25.05.2015
Date of Completion of Audit: 09.06.2015

Auditor:
Koushik Debnath & Associates
Chartered Accountants
Old Municipality Road, Agartala,
Pin: 799001

**KOUSHIK DEBNATH & ASSOCIATES****Chartered Accountants**
RoadOffice: Lenin Sarani, Old Municipality
(Near Nath Bhandar) Agartala
Tripura (West) 799001
Ph: 0381 2381007

cakoushik2012@gmail.com

To
The Registrar,
National Institute of Technology (NIT)
Jirania, Agartala.

Subject: - Internal Audit Report for the year ended 31.03.2015

We have conducted the Internal audit of your organization for the financial year ended 31.03.2015 and we report the following observations.

Observations:-

1. Tax Deducted at source (TDS): The Institute has not deducted TDS for Advance Payment made to M/S. NCC for carrying out construction works. The details are as follows:-

Sl No	Cheque No	Date	Amount(Rs.)
1	071685	30.05.2014	18105811.00
2	071838	29.09.2014	13255000.00
3	071839	29.09.2014	13202800.00
4	071840	29.09.2014	12700000.00
5	071989	09.03.2015	20895000.00

TDS should be deducted at the time of payment or credit to the party which ever is earlier.
The concern has not deducted TDS for payment made to various Parties. The details are as follows:-

Sl No	Cheque No	Date	Amount(Rs.)	Remarks
1	874449	28.04.2014	30,000.00	Paid to M/S. Sungraphics for printing works
2	874447 & 874448	28.04.2014	99,360.00	Paid to M/S. Sungraphics for printing works
3	096997	21.08.2014	35,455.00	Paid to Jain Udyog for Repair & Maintenance work
4	592936	16.03.2015	10,600.00	Paid to M/S. Sungraphics for printing works

Non deduction of TDS shall make the Institute defaulter u/s 201(1)/201 (1A) of the Income Tax Act 1961



2. It has been observed that Payments are made by cash in excess of Rs.20000/- Instead of account payee cheques for incurring expenditures such as payments to visiting faculties, etc & this mode need to be avoided. The Institute makes temporary advances from non plan funds which are credited in the cashbook as advance. However it has been observed the adjustments are directly booked in the ledger & in case of any refund from the advance the same is treated as academic collection. A separate advance register may be maintained & the amount of advance taken & adjusted should be routed through the register.
3. The concern prepared bank reconciliation statements regularly. However the following cheques remaining uncleared as on 31.03.2015 requires reversal:

Sl No.	Cheque No.	Date	Amount(Rs)
1	947161	31.03.2010	1,265,505.00
2	657318	31.03.2011	1,249.00
3	031021	02.08.2012	398,302.00

4. Fixed Assets: As per the guidelines for Financial Statements for Central Higher Edu Institutions, Fixed Assets should be valued at cost less acc depreciation & should be provided on SLM. But it has been observed that the Institute is charging depreciation on WDV method with change in rates as compared to the previous financial year.

Fixed Assets are not physically verified during the year & no insurance coverage against any fixed assets is taken by the concern. Daily average physical cash holding is around Rs.10.00 lacs, maintained in the safe of the Institute for its recurring expenses however no risk coverage taken for the same.

In certain cases of purchases of capital assets a penalty clause for delay delivery is there in the purchase order/ agreement with the vendor; however it has been noticed that in the following cases though there was delay of supply of the items but the penal clause was not imposed by the institute. The details of those were as follows:

Sl No.	Suppliers Name – from Plan fund	Cheque No.	Date	Amount(Rs.)	Delay in delivery (Months)
1	Legion Brothers	071807	16.09.2014	2,294,250.00	2 months
2	Legion Brothers	071816	16.09.2014	2,550,932.00	2 months
3	M/S. Quality Tents	071822	24.09.2014	798,465.00	43 days
4	A.S.I Sales Pvt. Ltd.	071844	17.10.2014	353,356.00	9 months
5	Analytical Instruments S&S Pvt Ltd.	071879	13.11.2014	846,188.00	3 Months
6	Marverick Technologies	071881	13.11.2014	212,648.00	5 Months
7	Parkin Electronics (India) Pvt Ltd.	071897	08.12.2014	96,600.00	4 Months



5. Details of Funds received by NIT, Agartala during the financial year 2014-15

Plan Fund:

Sl No.	Sanction Memo	Date of Sanction	Amt (in lakhs)
1	F.34-7/2014-TS-III	22.05.2014	1000.00
2	F.34-7/2014-TS-III	18.09.2014	1200.00
3	F.34-7/2014-TS-III	24.11.2014	2000.00
4	F.34-7/2014-TS-III	13.03.2015	1500.00
5	F.34-7/2014-TS-III	25.03.2015	2000.00
Total			7700.00

Non-Plan Fund:

Sl No.	Sanction Memo	Date of Sanction	Amt (in lakhs)
1	F.34-8/2014-TS-III	17.06.2014	500.00
2	F.34-8/2014-TS-III	16.09.2014	500.00
3	F.34-8/2014-TS-III	12.03.2015	500.00
Total			1500.00

6. It has been observed that certain advances are lying unadjusted since the opening of the financial year (01.04.2014). Those are as follows:

Sl No.	Name of Parties	Amount (Rs.)
1	B.S.N.L	172,764.00
2	P.H.E (Iron Removal plant)	1,560,100.00
3	Tripura Housing Board	7,640,420.00
4	DWS Deptt.(Water Supply)	2,695,300.00
5	S.D. Hardson Co.	1,265,505.00
6	EPIL	10,200,000.00
7	CPWD (Const. of Internal Road)	3,379,741.00
Total		26,913,830.00

Efforts should be made for early adjustment of the above.



Temporary Advances lying unadjusted since opening of the financial year (01.04.2014) & which should be adjusted at the earliest are as follows:

Sl No.	Name of Employees	Amount (Rs.)
1	Paritosh Bhattacharjee	1,900.00
2	Arindam majumder	47,200.00
3	Rahul Banerjee	35,000.00
4	Bikram Das	11,440.00
5	Swarup Paul	40,000.00
6	K. Surjit Singh	9,000.00
7	R.K.Bhogendra Meitei	50,180.00
8	Kalyan Gayen	50,000.00
9	M.B. Sarkar	50,000.00
10	Surajit Das	79,495.00
11	Baby Bhattacharjee	50,000.00
12	Pankaj Kr. Das	9,300.00
13	Sukanta Goswami	5,500.00
Total		439,015.00

Place: Agartala
Date: 19.06.2015



For, KOUSHIK DEBNATH & ASOCIATES
Chartered Accountants

(CA.Koushik Debnath)
Mem no: 064341

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA			
BALANCE SHEET AS AT 31.03.2015			
CORPUS / CAPITAL FUND AND LIABILITIES	Schedule	Current year 2014-2015	Amount Rs Previous year 2013-2014
CORPUS / CAPITAL FUND			
DESIGNATED / EARMARKED / ENDOWMENT FUNDS	1	6470012674	4427264376
CURRENT LIABILITIES & PROVISION	2	262488947	1639823944
GOVT FUND-DONOR PROJECT	3	421684776	415849434
OTHERS INCOME- PLAN FUND		112637000	112637000
GRANT FROM NMEICT		12551056	115880
TOTAL		448873	499000
ASSETS		7279823326	6596189634
FIXED ASSETS			
INVESTMENTS - FROM EARMARKED / ENDOWMENT FUNDS	4	6411951118	4253581418
INVESTMENTS OTHERS	5	0	0
CURRENT ASSETS	6	0	0
LOANS & ADVANCES-PLAN FUND	7	597539237	703395382
LOANS, ADVANCES & DEPOSITS	2(ii) 8	262637806 7695165	1602823996 36388838
TOTAL		7279823326	6596189634
SIGNIFICANT ACCOUNTING POLICIES	23		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	24		
Asstt. Registrar(Finance)	Registrar	Director	
For Koushik Debnath & Associates (Chartered Accountants)	(SUMANTA CHAKRABARTI) Registrar (I/d) National Institute of Technology Agartala, Tripura	(Dr. Gopal Mugeraya) Director National Institute of Technology Agartala	
(Jagatjyoti Roy) Asstt. Registrar (Finance) Mem No: 064341			

“O”-“Q”-“C”-“S”-“T”-“N” (N.I.T.) OF “A”-“T”-“S” Name of entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD / YEAR ENDED ON 31.03.2015				
Particulars	Schedule	Current year 2014-2015	Previous year 2013-2014	
INCOME				
Academic Receipts	9	177216930	116603771	
Grants & Donations				
Non Plan Fund				
Plan Fund- Revenue Purpose	10	150000000	190000000	
Income from Investments	2	364860	2297229	
Interest Earned	11	0	0	
Other Income	12	19839496	30284531	
Prior Period Income	13	301074	573965	
TOTAL (A)	14	0	0	
EXPENDITURE		347722360	339789496	
Staff Payment & Benefits	15	226057958	197139249	
Academic Expenses	16	51532717	26398577	
Administrative & General Expenses	17	86720883	86265647	
Transportation Expenses	18	1989731	1610302	
Repairs & Maintenance	19	6145711	9050459	
Finance Cost	20	21355	141252	
Other Expenses	21	0	0	
Prior Period Expenses	22	0	0	
Expenses of Plan Fund	2(iii)	364860	2297229	
Depreciation	4	49372484	18573732	
Exp. On Moutoshi Kar Memorial Scholarship		2500	0	
Grant to KV, NIT Agartala		8735000	5134000	
Contribution to				
Retirement Benefit Fund		32000000	10000000	
Inst. Dev. Fund		9001000	8660000	
TOTAL (B)		471944199	532434447	
Balance being Excess of Income over Expenditure (A - B)		(124221839)	(192674951)	
transferred to Capital Fund				
Significant Accounting policies	23			
Contingent liabilities and notes on Accounts	24			
Asstt. Registrar(Finance)	Registrar	Director		
For				
KOUSHIK DEBNATH & ASSOCIATES (Chartered Accountants)				
(Jagatiyoti Roy)				
Asslt. Registrar (Finance)				
(CA Koushik Debnath)				
Mem No. 064341				
(Sumanta Chakrabarti)				
Registrar (i/c)				
(Dr. Gopal Mugeraya)				
National Institute of Technology Agartala, Tripura				
National Institute of Technology Agartala				

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)					
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA					
RECEIPTS AND PAYMENTS FOR THE PERIOD/ YEAR ENDED ON 31.03.2016					
RECEIPTS	(Amount - Rs.) Current Year 2014-2015	(Amount - Rs.) Previous Year 2013-2014	PAYMENTS	(Amount - Rs.) Current Year 2014-2015	(Amount - Rs.) Previous Year 2013-2014
II) Opening Balance:					
In Savings Account (Non-Plan)			Non-Plan Expenditure:		
Bank (SBI, NIT Agt Br)	112007631	204201737	i) EXPENSES:	220343145	193202661
Bank (Canara Bank Agt Br)	448955	448955	a) Staff Payment & Benefit	84340407	85681424
Cash	2780814	510706	b) Administrative & Gen. Expenses	44558073	27133657
			c) Academic Expenses	1956073	1587093
Opening Balance: (Plan)			d) Transportation Expenses	6113090	9146729
Bank- SBI, NIT Agt Br	219529291	12888849	e) Repair & Maintenance	21355	141252
Bank (Canara Bank Agt Br)	19541	19541	f) Finance Cost		
Cash	67780	67780			
			II) Expenditure on Fixed Assets &		
III) GRANTS RECEIPTS:			Capital Working Progress -		
From MHRD (Govt. Of India)			Fixed Assets:		
a) Non Plan			Plan	593483947	843005969
III) Interest Received			Non-Plan	8141442	72938886
a) Plan Fund	6302962	13794592	III) Other Payments		
b) Non-Plan Fund	5493203	6541405	d) Stipend/Scholarship	0	23200
			NEC-Stipend	4552682	9705526
IV) Any other received			Otherstate-Stipend	2500	0
a) Academic Collection	178138553	116768344	Moutoshi Kar Memorial	0	4600
b) Miscellaneous Receipts	301074	213085	Post Matric Scholarship-ST	0	0
c) Library Caution Money	5275000	5420000	Post Madhyamik Stipend	0	0
d) CCB & CCMT Fees	2886598	3057195	Post Matric Scholarship-ORC	0	9979751
e) Security Deposit	0	0	IV) Advances		
f) Sale of Tender Form	0	359980	a) Plan	233300000	240000000
g) Recruitment Fees/Interview	0	0	b) Non-Plan	0	2000000
Other Fund	186601225	125819504			
(Corresponding to schedule 12A)			Inst. Dev Fund		
Grant on Mobilization Advance	4405082	9960866	Exp. for CCB & CCMT	9001000	8660000
Temporary Advance Received	5765753	6495469	Retirement Benefit Fund	2187424	1359433
LTC Advance Received	1170658	3231304	Library Caution Money	32000000	10000000
Loan Recovery from NIMCET Fund	94440	340020	Grant to KV, NIT Agartala	234000	2159000
	800000		Payable to MHRD	8735000	5134000
			Fixed Deposit-Moutoshi Kar	20000000	0
			Exp for NMEICT	30000	0
			LTC Advance to Faculty & Staff	50127	1000
			Loan to NIMCET	3158710	2261900
			Temporary Advance to Employees	0	800000
			Other Payments	0	126780
			Plan Expenditures		
			(Corresponding to schedule 3)	364860	2297229

(Jagatipali Bdy)

Health, Research (Finance)

(SUMANTA GHAKRABARTI)

Registrar (I/c)

National Institute of Technology
Agartala, Tripura

(Dr. Gopal Mugeraya)


Director

National Institute of Technology

B) PLAN FUND		C) CLOSING BALANCE		D) IN CURRENT ACCOUNT (Non-Plan)		E) IN CURRENT ACCOUNT (Plan)		F) CLOSING BALANCE		G) IN CURRENT ACCOUNT (Non-Plan)		H) IN CURRENT ACCOUNT (Plan)		I) TOTAL	
From AICTE (Govt. of India)		From Virtual Class Room		From NMEICT		From NMEICT		From NMEICT		From NMEICT		From NMEICT		From NMEICT	
a) Plan	7900000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
b) Grant from DHE(DONOR Project)															
c) Fund for Virtual Class Room															
d) Fund from NMEICT															
e) Any other received															
a) Miscellaneous Receipts	12435176														
b) Advance Received	0														
TOTAL	1497922511														

For
KOUSHIK DEBNATH & ASSOCIATES
(Chartered Accountants)

CA Koushik Debnath
Mem. No. 064341


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

(SUMANTA CHAKRABARTI)
Registrar (i/c)
National Institute of Technology
Agartala, Tripura

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

Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA			
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD / YEAR ENDED ON 31.03.2015			
Particulars	Schedule	Current year 2014-2015	Previous year 2013-2014
INCOME			
1. Opening Bank Balance (S.B. A/c)		740764	346721
2. Income from Sales / Services			
3. Fees / Subscriptions		623267	499497
4. Interest Earned		30930	23530
TOTAL		1394961	869748
EXPENDITURE			
Bank Charges		408904	128964
Closing Bank Balance (S.B. A/c)	7	325	20
		985732	740764
TOTAL		1394961	869748
NEW PENSION SCHEME-TIER-I FUND			
Particulars	Schedule	Current year 2014-2015	Previous year 2013-2014
INCOME			
1. Opening Balance: S.B. A/c			
Fixed Deposit		2805	3876
2. Income from Sales / Services			
3. Fees / Subscriptions		4433965	30690998
Employee / Employer's Contribution		0	0
Employee / Employer's Contribution-FD		12769506	11230534
4. Interest Earned-S.B. Accounts		0	0
5. Interest Earned-F.D. Accounts		19326	20135
TOTAL		61528242	44422510
EXPENDITURE			
Fund transfer to CRA (NSDL)		0	65740
Bank Charges		2159200	0
Fixed Deposit		0	0
Bank Balance (S.B. A/c)	7	59333605	4433965
	7	35437	2805
TOTAL		61528242	44422510
For			
KOUSHIK DEBNATH & ASSOCIATES (Chartered Accountants)			
(Jagajyoti Roy)			
Asstt. Registrar (Finance)			
National Institute of Technology			
Agartala			
Mem No: 064341			
(CA Koushik Debnath)			
AGARTALA			
ERN-227477E			
DEBNATH & ASSOCIATES			
(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 31.03.2015			
Particulars	Schedule	RETIREMENT BENEFIT FUND	
		Current year 2014-2015	Previous year 2013-2014
INCOME			
1. Opening Balance:			
S.B. A/c			
Fixed Deposit		6776177	8131669
2. Income from Sales / Services-		34459110	32324170
3. Fees / Subscriptions		0	0
4. Fees / Subscriptions-FD		24466518	218084
5. Interest Earned-S.B.Accounts		0	0
5. Interest Earned-F.D.Accounts		501800	261271
TOTAL		3554839	2134940
		69758444	43070134
EXPENDITURE (Pension / Gratuity)			
Bank Charges		6781315	1834847
Fixed Deposit	7	0	0
Bank Balance (S.B. A/c)	7	48013949	34459110
TOTAL		14963180	6776177
		69758444	43070134
INSTITUTE DEVELOPMENT FUND			
INCOME			
1. Opening Balance:			
S.B. A/c			
Fixed Deposit		15919251	15085845
2. Income from Sales / Services-		20243575	18330400
3. Fees / Subscriptions		0	0
4. Interest Earned-S.B.Accounts		8820800	282766
5. Interest Earned-F.D.Accounts		884070	1913175
TOTAL		1968207	550640
		47835903	36162826
EXPENDITURE			
Fixed Deposit		0	0
Bank Balance (S.B. A/c)	7	47311782	20243575
TOTAL	7	624121	15919251
		47835903	36162826
For			
KOUSHIK DEBNATH & ASSOCIATES (Chartered Accountants)			
(CA Koushik Debnath) Mem No: 064341			
(Jagtiyoti Roy) Asstt. Registrar (Finance) National Institute of Technology Agartala, Tripura			
(SUMANTA CHAKRABARTI) Registrar (ITC) National Institute of Technology Agartala, Tripura			
(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 31.03.2015				
Particulars	Schedule	Current year 2014-2015	Previous year 2013-2014	STAFF WELFARE FUND
INCOME				
1. Opening Balance: S.B. A/c		53562	35950	
2. Income from Sales / Services-				
3. Fees / Subscriptions		0	0	
4. Interest Earned-S.B.A/c		8100	16160	
TOTAL		63867	1452	53562
Bank Balance (S.B. A/c)	7	63867	53562	
TOTAL		63867	53562	
PROJECT FUND				
INCOME				
1. Opening Bank Balance (S.B. A/c)		3945111	3422323	
1. Income from Sales / Services-				
2. Fees / Subscriptions		0	0	
3. Fees / Subscriptions-Tr. From College A/c		1088427	1931274	
4. Interest Accrued-S.B. Accounts		0	0	
TOTAL (A)		154802	139535	
EXPENDITURE:		5188340	5493132	
Service Tax				
Refund to Parties		107116	105142	
Exp. & Distribution to Faculties & Staffs		0	0	
Bank Charges		600000	1441300	
Fixed Deposit		1802	1579	
		0	0	
Closing Bank Balance (S.B. A/c)	7	4479422	3945111	
TOTAL (B)		5188340	5493132	
For				
KOUSHIK DEBNATH & ASSOCIATES (Chartered Accountants)				
(CA Koushik Debnath) Mem No. 064341				
(Jagatiyoti Roy) Asstt. Registrar (Finance) National Institute of Technology Agartala, Tripura				
(SUMANTA CHAKRABARTI) Registrar (i/c) National Institute of Technology Agartala, Tripura				
(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 31.03.2015			
Particulars	Schedule	DEPARTMENTAL PROMOTIONAL FUND (CIVIL)	
		Current year 2014-2015	Previous year 2013-2014
INCOME			
1. Opening Balance: S.B. A/c		1690568	1408791
2. Income from Sales / Services-		0	0
3. Fees / Subscriptions		81000	225130
4. Interest Earned-S.B.Accounts		67793	56647
TOTAL		1839361	1690568
Bank Balance (S.B. A/c)	7	1839361	1690568
TOTAL		1839361	1690568
NSS UNIT			
INCOME			
1. Opening Balance: S.B. A/c		11172	8227
2. Income from Sales / Services-		0	0
3. Fees / Subscriptions		40121	33827
4. Interest Earned-S.B.Accounts		991	1079
TOTAL		52284	43133
EXPENDITURE			
Bank Charges		44800	31961
Bank Balance (S.B. A/c)	7	312	0
		7172	11172
TOTAL		52284	43133
For			
KOUSHIK DEBNATH & ASSOCIATES (Chartered Accountants)			
(CA Koushik Debnath) Mem No: 064341			
(Jagajyoti Roy)			
Asstt. Registrar (Finance)			
National Institute of Technology Agartala, Tripura			
(SUMANTA CHAKRABARTI)			
Registrar (i/c)			
National Institute of Technology Agartala, Tripura			
(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 31.03.2015				
INCOME	Particulars	Schedule	EMD & SECURITY DEPOSIT	
			Current year 2014-2015	Previous year 2013-2014
1. Opening Balance:				
S.B. A/c				
Fixed Deposit			16366790	12634629
2. Income from Sales / Services-			15595070	15000000
3. Fees / Subscriptions			0	0
4. Interest Earned-S.B. Accounts			11560458	25949474
5. Interest Earned-F.D. Accounts			604625	600215
TOTAL			1451640	595070
			45578583	54779388
EMD & Security Released				
Bank Charges			16069860	22804098
Fixed Deposit			2141	13430
Bank Balance (S.B. A/c)	7		17046710	15595070
	7		12459872	16366790
TOTAL			45578583	54779388
INFRASTRUCTURAL DEVELOPMENT FUND				
INCOME	Particulars	Schedule	Current year 2014-2015	Previous year 2013-2014
1. Opening Balance:				
S.B. A/c				
Fixed Deposit			683509	632870
2. Income from Sales / Services-			5000000	5000000
3. Fees / Subscriptions			0	0
4. Interest Earned-S.B. Accounts			0	0
5. Interest Earned-F.D. Accounts			25246	50639
TOTAL			2534204	0
			8242959	5683509
Expenditure				
Fixed Deposit			0	0
Bank Balance (S.B. A/c)	7		7534204	5000000
	7		708755	683509
TOTAL			8242959	5683509
For				
KOUSHIK DEBNATH & ASSOCIATES				
(Chartered Accountants)				
(CA Koushik Debnath)				
Mem No: 064341				
(Jagatiyoti Roy)				
Asstt. Registrar (Finance)				
(SUMANTA CHAKRABARTI)				
Registrar (i/c)				
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 31.03.2015				
INCOME	Particulars	Schedule	SPONSORED PROJECT FUND	
			Current year 2014-2015	Previous year 2013-2014
1. Opening Balance:				
S.B. A/c				
Fixed Deposit			28448161	41941088
2. Income from Sales / Services-			71476841	64739837
3. Fees / Subscriptions			0	0
4. Other Income			18721961	19007610
4. Interest Earned-S.B.Accounts			0	0
5. Interest Earned- F.D. A/c			1077940	1374529
			7001911	6737004
TOTAL			126726814	133800068
EXPENDITURE				
Bank Charges			22738574	33734137
			45949	140929
Fixed Deposit		7	78478752	71476841
Bank Balance (S.B. A/c)		7	25463539	28448161
TOTAL			126726814	133800068

For

KAUSHIK DEBNATH & ASSOCIATES
(Chartered Accountants)

(CA Koushik Debnath)
Mem No: 064341

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

(SUMANTA CHAKRABARTI)
Registrar (i/c)
National Institute of Technology
Agartala, Tripura

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

AGARTALA
FRN-327477E

For
KOUSHIK DEBNATH & ASSOCIATES
(Chartered Accountants)


(CA Koushik Debnath)
Mem. No: 064341



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

(SUMANTA CHAKRABARTI)
Registrar (i/c)
National Institute of Technology
Agartala, Tripura

(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 31.03.2015			
Particulars	Schedule	STAFF BENEFIT TRUST (GPF)	
		Current year 2014-2015	Previous year 2013-2014
INCOME			
1. Opening Balance: S.B. A/c		92391	528821
2. Income from Sales / Services-			
3. Fees / Subscriptions		5917000	0
4. Interest Earned-S.B.Accounts		6706	11970
TOTAL		6016097	6229791
EXPENDITURE			
Remittance		0	0
Bank Charges		5917000	6137400
Bank Balance (S.B. A/c)	7	200	0
		98897	92391
TOTAL		6016097	6229791
DIRECTOR'S RELIEF FUND			
Particulars	Schedule	DIRECTOR'S RELIEF FUND	
		Current year 2014-2015	Previous year 2013-2014
INCOME			
1. Opening Balance: S.B. A/c		319777	307359
2. Income from Sales / Services-			
3. Fees / Subscriptions		0	0
4. Interest Earned-S.B.Accounts		0	0
TOTAL		12705	12418
EXPENDITURE			
Bank Charges		332482	319777
Bank Balance (S.B. A/c)	7	0	0
		332482	319777
TOTAL		332482	319777
For			
Koushik Debnath & Associates (Chartered Accountants)			
(CA Koushik Debnath) Mem No: 064341			
			
(Jagajyoti Roy) Asstt. Registrar (Finance) National Institute of Technology Agartala			
(SUMANTA CHAKRABARTI) Registrar (I/c) National Institute of Technology Agartala, Tripura			
(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 31.03.2015			
SCHOOL OF CONTINUING EDUCATION			
Particulars	Schedule	Current year 2014-2015	Previous year 2013-2014
INCOME			
1. Opening Balance: S.B. A/c		31450	30228
2. Income from Sales / Services		0	0
3. Fees / Subscriptions		0	0
4. Interest Earned-S.B.A/c		1250	1222
TOTAL		32700	31450
Bank Charges		0	0
Bank Balance (S.B. A/c)	7	32700	31450
TOTAL		32700	31450
GUEST HOUSE FUND			
INCOME			
1. Opening Balance: S.B. A/c		543199	618727
2. Income from Sales / Services		0	0
3. Fees / Subscriptions		770150	198100
4. Interest Earned-S.B.A/c		37949	26372
TOTAL		1451298	843199
EXPENDITURE			
Bank Charges		0	0
Bank Balance (S.B. A/c)	7	1451148	643199
TOTAL		1451298	643199
For			
KOUSHIK DEBNATH & ASSOCIATES (Chartered Accountants)			
(CA Koushik Debnath) Mem No: 064341			
(Jagatiyoti Roy) Asstt. Registrar (Finance) National Institute of Technology Agartala, Tripura			
(SUMANTA CHAKRABARTI) Registrar (Ac.) National Institute of Technology Agartala, Tripura			
(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 31.03.2015				
Particulars	Schedule	Current year 2014-2015	Previous year 2013-2014	
INCOME				
1. Opening Balance: S.B. A/c				
2. Income from Sales / Services-		211629	0	
3. Fees / Subscriptions		0	0	
4. Interest Earned-S.B. Accounts		49659	0	
TOTAL		9339	0	
		270627	0*	
EXPENDITURE				
Bank Charges		0	0	
Bank Balance (S.B. A/c)	7	300	0	
TOTAL		270327	0	
		270627	0*	
INCOME				
1. Opening Balance: S.B. A/c				
2. Grant from MHRD		34940034	0	
3. Fees / Subscriptions		15700000	0	
4. Interest Earned-S.B. Accounts		1226624	0	
TOTAL		1121475	0	
		52988133	0*	
EXPENDITURE				
Bank Charges		30075529	0	
Bank Balance (S.B. A/c)	7	2538	0	
TOTAL		22910066	0	
		52988133	0*	
* Was not shown in 2013-14 Accounts.				
For				
KOUSHIK DEBNATH & ASSOCIATES (Chartered Accountants)				
(CA Koushik Debnath) Mem No: 064343				
(Jagatiyoti Roy) Asstt. Registrar (Finance) National Institute of Technology Agartala, Tripura				
(SUMANTA CHAKRABARTI) Registrar (I/c) National Institute of Technology Agartala, Tripura				
(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 31.03.2015			
SCHEDULE 1- CORPUS / CAPITAL FUND :	Current Year 2014-2015	Previous Year 2013-2014	(Amount - Rs.)
Balance as at the beginning of the year	4427264376	3775438441	
Add Contributions towards Earmarked/Endowment Fund	2166970137	844500886	
Add (Deduct) balance of Net Income/ Expenditure transferred from the Income and Expenditure Account.	(124221839)	(192674951)	
Add: Assets Donated/Gift Received			
Add: Other Additions			
BALANCE AS AT THE YEAR - END	6470012674	4427264376	
<div style="display: flex; justify-content: space-between;"> <div> <p>(Jagatiyoti Roy) Asstt. Registrar (Finance) National Institute of Technology Agartala</p> </div> <div> <p>(SUMANTA CHAKRABARTI) Registrar (i/c) National Institute of Technology Agartala, Tripura</p> </div> <div> <p>(Dr. Gopal Mugeraya) Director National Institute of Technology Agartala</p> </div> </div>			

পদক্ষেপ: প্রতিষ্ঠানের আর্থিক কার্যাবলি
 Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA
 SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2015

SCHEDULE 2- DESIGNATED / EARMARKED FUNDS	FUND- WISE BRAKE UP		TOTALS
	Current Year 2014-2015	Previous Year 2013-2014	
a) Opening Balance of the Funds	153256068	0	153256068
b) Additions to the Funds:			
I) Donations / Grants From AICTE			
Fund for Capital Assets(tr to Balance Sheet)	789635140	6063682992	0
Less: Tr. To Corpus /Capital Fund	2166970137	4423859048	6853318132
Net Fund for Capital Assets(tr to Balance Sheet)	(1,37,73,34,997)	1639823944	6590829185
II) Income for Revenue Purpose(tr to Income & Expenditure A/C)	364860	2297229	262488947
III) Income from Investments made on account of funds			2662089
III) Other additions (specify nature)			0
a) Fund from DHE, Govt of Tripura(DONER Project)	0	112637000	0
b) Bank Interest(S.B. A/C)(Forming part of Sch. 14)	6302962	56458961	112637000
IV) Others Income	12435176	115880	62761923
V) Advance Received back from Parties	0	115880	12551056
VI) Fund for Virtual Class Room	0	554783250	554783250
VII) Grant from NMEICT	0	1195524	1195524
TOTAL (a+b)	(1,20,49,75,931)	2367812788	499000
c) Utilisation / Expenditure towards objectives of funds			1162836857
I) Capital Expenditure			
-Fixed Assets			
Vehicle			
Electric Instalations		1686081	1686081
Hostel Building, quarters etc	4966492	28455583	33422075
Const. of Ladies Toilets		24896321	24896321
Furniture & Fittings		115284	115284
Equipment & Machinery-Grass Cutter	11613073	91708851	103321924
Computer & Accessories		40000	40000
Plant & Machinery	158117	74586454	74744571
Generator		385000	385000
Machinery & Equipments-Air Conditioner		51000	51000
Equipment & Machinery		4961678	4961678
EPBX Machine	29601609	601445124	631046733
Books & Journals		409937	409937
Const of Workshop		3032073	3032073
Const of Boundary Wall	7088660	16491819	23580479
Type II & III Quarters	29452043	35969303	65421346
Boundary Wall	6925980	24222980	31148960
Admin Building & Class Room		995600	995600
Const. of Auditorium Buildings		18621297	18621297
Academic, Library Building		21211849	23151901
	1940052	136098725	136098725



(Dr. Gopati Mugeraya)
 Director

(SUMANTA CHAKRABARTI)
 Registrar (i/c)
 National Institute of Technology

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

Net 'Trk' qE 'ipr ntr'	'27' 34'	'6C '04'	'53' 32'
Const of Internal Road	3620259	209458061	213078320
Const of Boys & Girls Hostels	3135507	1261410230	1264545737
Const of Main Gate & Sub Gate		9906684	9906684
Const of Basket Ball Court		785976	785976
Const of Watch Tower & Security Barrack		5010888	5010888
Const of Market Complex		11943969	11943969
Const of School of Management	15681571	359430791	375112362
Const of Sewerage Treatment Plant (STP)		10447478	10447478
Const of Sports Complex		302066414	436366415
Const of Central School		54917000	291854872
Const of Housing & Guest House		522651034	526357954
Const of Admn Block & Seminar Hall		363239996	453246342
Const of Central Library		2419601	286624924
Const of Central Stores		5198123	21908317
Const of H4B Building		4910560	104245739
Const of 1500 Bedded Boys Hostel		157431831	426103823
Const of Duplex Building		1217404	42523002
Const. of Iron Removal Plant	550000	0	550000
Const. of Dedicated Power Supply(33KV)	40800000	0	40800000
Const of 500KVA Substation	1400170	0	1400170
Const of Internal Electrification	843020	0	843020
Const. of Hostel Building	2306504	0	2306504
Const. of Admn Building & Class Room	5459883	0	5459883
Const of Multipurpose Building	1018605	0	1018605
Const of Security barrack	778822	0	778822
Const of Computer Centre	372575151	0	372575151
Const of Lab cum Canteen, workshop & Academic Building	444800000	0	444800000
TOTAL	2166970137	4423859048	6590829185
Less: Tr. to Fixed Assets (Schedule 4)	2166970137	4423859048	6590829185
TOTAL (2A)	0	0	0
Others			
Advance to Parties(Schedule 2A)	233300000	4116569456	4349869456
Less: Adjustment Tr to Fixed Assets	157348190	2513745460	4087231650
Security Deposit to TSECL	(1,34,01,86,190)	1602823996	262637806
Temporary Adv to Monajit Das	0	5100	5100
	0	15000	15000
Stock in Transit:			
Machinery & Equipments	0	64055272	64055272
Networking in Transit	0	7924964	7924964
Computer & Accessories	0	543742	543742
Furniture & Fittings in Transit	0	2752132	2752132
Exp. For Virtual Class Room	0	0	0
Exp. For NMEICT	50127	0	50127

(SUMANTA CHAKRABARTI)
Registrar (I/d)
National Institute of Technology
Kharagpur

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

(Dr. Gopal Mugeraya)
Director



TOTAL (2H)		(1,34,01,36,063)	1678120206	337984143
II) Revenue Expenditure				
-Other Administrative Expenditures				
Bank Charges		114860	2297229	2412089
NIT Transit House-Delhi		250000	0	250000
		364860	2297229	2662089
TOTAL (2H)				
GRNAD TOTAL (2I+2H+2III)				
Un-Spent Grant(Plan Fund)		1,33,97,71,203	1680417435	340646232
		134795272	153256068	

NOTE: Rs.3,64,860/- 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

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

(SUMANTA CHARRABARTI)
Registrar (i/c)
National Institute of Technology
Agartala, Tripura

(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 31.03.2015

SCHEDULE 2 A- DETAILS OF ADVANCE TO PARTIES	Current Year	Previous Year	Adjustment	TOTAL
	2014-2015	2013-2014	tr to Fixed Assets	(1+2-3)
Advance to:	(1)	(2)	(3)	
R.D. Deptt(Const of Boundary Wall)		27111843	27111843	0
B.S.N.L.(Call User Group-CUG)		172764	0	172764
R.D. Deptt(Repairing of Administrative Building)		1066603	1066603	0
R.D. Deptt(Hostel Building & Others)		2306504	2306504	0
P.H.E.(Iron Removal Plant)		1560100	0	1560100
Tripura Housing Board(Academic Building, Library)		7640420	0	7640420
TSECL-Deductive Power Supply		40800000	40800000	0
R.D. Deptt(Auditorium)		1940052	1940052	0
R.D. Deptt(Boundary Wall & Septic Tank)		1344600	1344600	0
R.D. Deptt(Boundary Wall & Type IV)		995600	995600	0
R.D. Deptt(Multipurpose Buildings)		1018605	1018605	0
R.D. Deptt(Security Barrak)		778822	778822	0
R.D. Deptt(Const of Class Room)		4393280	4393280	0
BRTF(Internal Road Development)		0	0	0
DWS Deptt (Water Supply)		2695300	0	2695300
EPIL(Const of Workshop)		45500000	44480000	1020000
PWD Deptt (Electrification)		843020	843020	0
TSECL-DGM Jirania		1400170	1400170	0
R.D. Deptt(Renovation of Workshop)		7088660	7088660	0
S.D. Hardson Co(Equipments)		1265505	0	1265505
Eastern Engg Corp(Equipments)		18000	18000	0
CPWD(Const of Central School)	35000000	229883000	236937872	27945128
CPWD(Const of H4B Building)	100000000	101000000	99335179	101564821
CPWD(Const of Duplex Building)	15000000	44800000	41305598	18494402
CPWD(Const of Internal Road)		7000000	3620259	3379741
Bridge & Roof Co.(Const of Central Computer Centre & CSE)	63300000	66000000	655680375	67619625
Cadence Design System, Ireland		701148	701148	0
R.D. Deptt (Const of Market Complex)	10000000	0	0	10000000
CPWD (Const of Central Plaza)	10000000	0	0	10000000
TOTAL	233300000	1602823996	1573486190	262637806



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


(SUMANTA CHAKRABARTI)
 Registrar (i/c)
 National Institute of Technology
 Agartala, Tripura

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


DR OF IN IC S YU YER S (N RC IT IG IS YO)			
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2015			
SCHEDULE 3- CURRENT LIABILITIES AND PROVISIONS	Current Year 2014-2015	Previous Year 2013-2014	(Amount - Rs.)
A) CURRENT LIABILITIES			
1) Acceptances			
2) Sundry Creditors			
For Plan Fund	4054996	76681335	
For Non-Plan Fund	9709749	3864340	
Outstanding Liabilities:			
a) Travelling & Conveyance	84507	0	
b) Academic Collection	562500	0	
c) Transportation	44964	0	
d) Scholarship	6974644	0	
e) Repair & Maintenance	32621	0	
f) Salaries & Wages	19556371	16659668	
g) Electricity & Power	2493363	2265211	
h) Telephone Expenses	23947	26833	
i) CPDA		22568	
j) Advertisement & Publicity	0	0	
k) Medical Re-imbursement	0	26469	
TOTAL (3A)	43537662	99546424	
PROVISION:			
a) Fund Payable to MHRD (Plan)	0	20000000	
b) Testing/Earthquake & Water quality etc	0	0	
c) Mess Fees Payable to Hostel	0	0	
d) CCB, CCMT & Other Fees	0	0	
e) Counselling Fees-Payable to Students	3278283	2579109	
TOTAL (3B)	100000	100000	
b) Others-Mess Fees payable to Hostel	3378283	22679109	
3) Advances Received	0	0	
4) Interest accrued but not due on:	0	0	
a) Secured Loans/ borrowings.	0	0	
b) Unsecured Loans/ borrowings.	0	0	
TOTAL (3C)	0	0	
5) Statutory Liabilities:			
a) Overdue			
b) Others			
Project Fund	4479422	3945111	
New Pension Scheme-Tier-I Fund	59369042	44356770	
<div style="display: flex; justify-content: space-between;"> <div> <p>(Jagatiyoti Roy)</p> <p>Assit. Registrar (Finance)</p> <p>National Institute of Technology</p> <p>Agartala, Tripura</p> </div> <div> <p>(SUMANTA CHAKRABARTI) (Dr. Gopal Mugeraya)</p> <p>Registrar (I/c)</p> </div> </div>			

Retirement Benefit Fund	62977129	41235287
Student Welfare Fund	985732	740764
Staff Development Fund	120379	120379
Institute Development Fund	47835903	36162826
EMD & Security Deposit	29506582	31961860
Infrastructural Development Fund	8242959	5683509
Sponsored Project Fund	103942291	99925002
Staff Welfare Fund	63867	53562
Departmental Promotional Fund(Civil)	1839361	1690568
NSS Unit	7172	11172
Staff Benefit Trust	98897	92391
Director's Relief Fund	332482	319777
School of Continuing Education	32700	31450
Guest House Fund	1451148	843199
NIT Transit House Fund	270327	0
TEQIP Fund	22910066	0
Aayam	0	701270
Moksha	0	339032
NSS Unit Prog.	13182	13182
Renewable Energy Club(TREDA)	24	24
Stipend Payable to Students(Former Part of Schedule 10A)	311005	458605
Fund from ST Welfare Deptt(Books)	817500	817500
Fund from SC Welfare Deptt(Books)	27817	27817
Fund for Rubber Processing	156250	156250
Fund for Virtual Class Room (Plan Fund)	1195524	1195524
TOTAL (3D)	346986761	270882831
6) Other current Liabilities		
i) Library Caution Money		
Opening Balance	16996500	13735500
Add: This year	5275000	5420000
	22271500	19155500
Less: Payment this year	234000	2159000
TOTAL (3E)	22037500	16996500
i) Loan from DHE(Staff Salaries)	5629954	5629954
ii) Earnest Money Deposit	114616	114616
TOTAL (3F)	5744570	5744570
TOTAL (I)	421684776	415849434
B. PROVISIONS		
1) For taxation		0
2) Gratuity		0
3) Superannuation / pension		0
4) Accumulated Leave Encashment		0
(Jagajyoti Roy)		
Registrar (Finance)		
National Institute of Technology		
Agartala, Tripura		
(JUMANTA CHAKRABARTI)		
Registrar (I/C)		
National Institute of Technology		
Agartala, Tripura		
Dr. Gopal Mugeraya		
Director		
National Institute of Technology		
Agartala		


5) Trade Warranties / Claims	0	0	0
6) Others (Specify)	0	0	0
TOTAL (H)			
TOTAL (i+ii)	421684776	415849434	



(Jagatjyoti Roy)
Asstt. Registrar (Finance)
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Agartala, Tripura



(SUMANTA CHAKRABARTI)
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National Institute of Technology
Agartala, Tripura



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

FORM OF FINANCIAL STATEMENTS (FOR-PROFIT ORGANISATIONS)											
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA											
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2015											
SCHEDULE 4 FIXED ASSETS	Rate of Depn	Cost/valuation As at beginning of the year	GROSS BLOCK		Cost/valuation at the year-end	As at the beginning of the year	DEPRECIATION		Total up to the year-end	NET BLOCK	
			Additions during the year	Deductions during the year			On Additions during the year	On deduction during the year		As at the Current year-end	As at the Previous year-end
TANGIBLE ASSETS											
PLAN FUND											
LAND											
Leasehold		0								0	0
Building	2%	24896321			24896321	11096273	276001		11372274	13524047	13800048
Ladies Toilet	2%	115284			115284	57081	1164		58245	57039	58203
Furniture & Fittings	7.5%	91708851	11613073		103321924	23042509	5394936		28437445	74884479	68666342
Machinery & Equipments	5%	601445124	44462809	14861200	631046733	148153758	23051072	1316039	169888791	461137942	453291366
Machinery & Equipments(Grass C	5%	40000			40000	24462	777		25239	14761	15538
EPBX Machine	5%	409937			409937	217849	9604		227453	182484	192088
Library Books	10%	3032073			3032073	3032073	0		3032073	0	0
Machinery & Equipments(Air Con	5%	4961678			4961678	1953234	150422		2103656	2858022	3008444
Generator	5%	51000			51000	33209	890		34099	16901	17791
Computer & Accessories	20%	74586454	158117		74744571	60397534	2857105		63254639	11489932	14188920
Plant & Machinery(Tractor)	10%	385000			385000	250688	13431		264119	120881	134312
Vehicle	10%	1686081			1686081	909519	77656		987175	698906	776562
ELECTRIC INSTALLATIONS	5%	28455583	4966492		334222075	9266553	999302		10265855	23156220	19189030
Type II & III Quarters(Buildings)	2%	24222980	6925980		31148960	6770197	396011		7166208	23982752	17452783
Boundary Wall	2%	995660			995660	380506	12302		392808	602792	615094
Admin Building & Class Room	2%	18621297			18621297	7116830	230089		7346919	11274378	11504467
Academic, Library Building	2%	136098725			136098725	30578562	2110403		32688965	103409760	105520163
Networking(Equipments)	7.5%	56028049	7075194		63103243	10085555	3681204		13766759	49336484	45942494
TOTAL (I)		1067740037	75201665	14861200	1128080602	313366392	39262369	1316039	351312722	776767780	784373645
NON-PLAN FUND											
FURNITURE & FIXTURES	7.5%	517019	377004		894023	162305	42355		204660	689363	354714
COMPUTER/PERIPHERALS	20%	1509825			1509825	1374816	27002		1401818	108007	135009
ELECTRIC INSTALLATIONS	5%	45657214	302668		45959882	8435092	1868736		10303828	35656054	37222122
EPBX Machine	5%	421438			421438	285100	6817		291917	129521	136338
Water Purifier	5%	126406			126406	67921	2924		70845	55561	58485
Fax Machine	5%	9000			9000	5860	157		6017	2983	3140
INTERNET / V.SET	5%	123291			123291	45803	3874		49677	73614	77488
Hostel building, quarters etc	2%	19500000			19500000	5233873	285323		5519196	13980804	14266127
Sports Goods & Equipments	5%	1206749	306930		1513679	511916	44378		556294	957385	694833
Machinery & Equipments	5%	9049414	511360		9560774	2766110	325669		3091779	6468995	6283304
Office Equipments	7.5%	692432			692432	172565	38990		211555	480877	519867
Medical Instruments	7.5%	125271			125271	48773	5737		54510	70761	76498
Medical Equipments	5%	38749			38749	21166	879		22045	16704	17583
Podium	7.5%	34000			34000	11698	1673		20620	20620	22302
Library Books	10%	14545940	1648743		16194683	8390242	669492		8959734	763449	62555698

Type IV Quarters (Buildings)	2%	32047678	5486898	531216	6018114	26029564	26560780
Networking (Equipments)	7.5%	2242620	546038	127244	673282	1569338	1696582
Auditorium Building	2%	14838699	3528565	226203	3754768	11083931	11310134
Boundary Wall	2%	251005	41935	4181	46116	204889	209070
TOTAL (II)		142936750	37036676	4312850	41249526	104833929	105900074
TOTAL (I + II)		1210676787	350403068	43475219	392562248	881601709	860273719
INTANGIBLE ASSETS							
NON-PLAN FUND							
Computer Software							
Books & Journals	40%	148603998	8786749	7213304	140258806	17131941	15558496
Patents							
TOTAL		148603998	8786749	7213304	140258806	17131941	15558496
CAPITAL WORK IN PROGRESS							
PLAN FUND							
Const. of Workshop		16491819	7088660			23580479	16491819
Const. of Boundary Wall		35969303	29452043			65421346	35969303
Const. of Boys & Girls Hostels		1261410230	3135507			1264545737	1261410230
Const. of Main Gate & Sub Gate		9906684				9906684	9906684
Const. of Basket Ball Court		785976				785976	785976
Const. of Watch Tower & Security Barrack		5010888				5010888	5010888
Const. of Market Complex		11943969				11943969	11943969
Const. of School of Management		359430791	15681571			375112362	359430791
Const. of Internal Road		209458061	3620259			213078320	209458061
Const. of Auditorium Buildings		21211849	1940052			213078320	209458061
Const. of Sewerage Treatment Plant (STP)		10447478				23151901	21211849
Const. of Sports Complex		302066414	134300001			10447478	10447478
Const. of Central School		54917000	236937872			436366415	302066414
Const. of Housing & Guest House		522651034	18568120			291854872	54917000
Const. of Admin Block & Seminar Hall		363239996	90006346			541219154	522651034
Const. of Central Library		2419601	284205323			453246342	363239996
Const. of Central Stores		5198123	1848994			286624924	2419601
Const. of H4B Building		4910560	99335179			7047117	5198123
Const. of 1500 cap. Boys Hostel		157431831	268671992			104245739	4910560
Const. of Duplex Building		1217404	41305598			426103823	157431831
Const. of Iron Removal Plant			550000			42523002	1217404
Const. of Dedicated Power Supply			40800000			550000	42523002
Const. of 500KVA Substation			1400170			40800000	550000
Const. of Internal Electrification			843020			1400170	40800000
Const. of Hostel Building			2306504			843020	1400170
Const. of Admin Building & Class room			5459883			2306504	843020
Const. of Multipurpose Building			1018605			5459883	2306504
Const. of Security Barrack			778822			1018605	5459883
Const. of Computer Centre			372575151			778822	1018605
Const. of Lab cum Canteen, workshop & Acad Bldg			444800000			372575151	778822
TOTAL (I)		3356119011	2106629672			444800000	372575151
						5462748683	444800000
						3356119011	5462748683

(Jagatiyoti Roy)

Asst. Registrar (Finance)
National Institute of Technology

(SUMANTA CHAKRABARTI)

Registrar (i/c)
National Institute of Technology

(Dr. Gopal Mugeraya)

Director
National Institute of Technology

NON-PLAN FUND									
Const of Market Complex	20681908	22834212	43516120	0	0	0	43516120	20681908	
Const of Admn. Building	560651	0	560651	0	0	0	560651	560651	
Const of Workshop	387633	0	387633	0	0	0	387633	387633	
Const of Electrification	0	4751821	4751821	0	0	0	4751821	0	
Const of Security Barrack	0	1252560	1252560	0	0	0	1252560	0	
TOTAL (U)	21630192	28838593	50468785	0	0	0	50468785	21630192	
TOTAL (I + U)	3377749203	2135469265	5513217468	0	0	0	5513217468	3377749203	
GRAND TOTAL	4737029988	2222603384	6944772172	483448570	50685523	1316639	532821054	6411951118	4253581418
To be given as to cost of assets on hire purchase basis included above)									

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Agartala

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Agartala, Tripura




(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 31.03.2015


	(Amount - Rs.)	
	Current Year 2014-2015	Previous Year 2013-2014
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 2014-2015	Previous Year 2013-2014
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


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


(SUMANTA CHAKRABARTI)
 Registrar (I/c)
 National Institute of Technology
 Agartala, Tripura




(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 31.03.2015			
SCHEDULE 7 CURRENT ASSETS	Current Year 2014-2015	Previous Year 2013-2014	
Current Assets:			
1) Inventories:			
a) Stores and Spares			
Stock in Transit			
NON-PLAN FUND			
PLAN FUND			
Machinery & Equipments	2649771	64055272	
Machinery on Networking	0	7924964	
Computer & Accessories in Transit	0	543742	
Furniture & Fittings in Transit	0	2752132	75276110
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
3) Cash balance in hand (including cheques / Drafts and Imprest			
Closing Cash Balance- Non Plan	1523727	2780814	
Closing Cash Balance- Plan	67780	67780	2848594
4) Bank Balances:			
a) With Scheduled Banks			
.- On Current Account			
Canara Bank- Non Plan A/c No- 876	448955	448955	
.- On Savings Accounts			
SBI, NITA Br.- Non Plan(A/c-30369892838)	42214178	112007631	
SBI, NITA Br.- Plan(A/c-30358199684)	181068495	219529291	

(Jagatiyoti Roy)
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Agartala

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



Canara Bank, Agt Br.- Plan (A/c-9007)	19541	19541		
SBI, NITA Br.-N. P. S. Fund(A/c-30471674447)	35437	2805		
SBI, NITA Br.-Project Fund(A/c-30533908751)	4479422	3945111		
SBI, NITA Br.-R. B. Fund(A/c-30693303036)	14963180	6776177		
SBI, NITA Br.-Student Welfare Fund(A/c-30534089717)	985732	740764		
SBI, NITA Br.-Inst. Dev. Fund(A/c-30534091012)	624121	15919251		
SBI, NITA Br.-EMD & Security Deposit(A/c-309361141729)	12459872	16366790		
TGB, NITA Br.-Inf. Dev Fund(A/c-8026010030064)	708755	683509		
SBI, NITA Br.-SDP Fund(A/c-30773081908)	25463539	28448161		
SBI, NITA Br.-Staff Welfare Fund(A/c-30534092027)	63867	53562		
SBI, NITA Br.-DPF(Civil)(A/c-30534090278)	1839361	1690568		
SBI, NITA Br.-NSS Unit(A/c-30786417404)	7172	11172		
SBI, NITA Br.-Staff Benefit Trust(A/c-31509918149)	98897	92391		
SBI, NITA Br.-Director's Relief Fund(A/c-31536875510)	332482	319777		
SBI, NITA Br.-School of Cont. Edu. (A/c- 30939795485)	32700	31450		
SBI, NITA Br.-Guest House Fund(A/c-31664487420)	1451148	843199		
SBI, NITA Br.-NIT Transit House Fund(A/c-31092166195)	270327	0		
SBI, NITA Br.-TEQIP Fund(A/c-32067844633)	22910066	0		
SBI, NITA Br.-Aayam(A/c-31441172525)	0	701270		
SBI, NITA Br.-Moksha(A/c-31623482000)	0	339032		408970407
- On Deposit Account(Including Margine Money)		310477247		
Fixed Deposit with SBI Agt Br.-General A/c	3004085			
Fixed Deposit with Canara Bank, Agt. Br.-General A/c	22162525	3004085		
Fixed Deposit with SBI Agt Br.-NPS Fund	59333605	22162525		
Fixed Deposit with SBI Agt Br.-RBF Fund	48013949	44353965		
Fixed Deposit with TGB NITA Br-Inf. Dev Fund	7534204	34459110		
Fixed Deposit with TGB NITA Br-SDP Fund	78478752	5000000		
Fixed Deposit with SBI Agt Br.-Moutoshi Kar. Memorial	30000	71476841		
Fixed Deposit with SBI Agt Br.-EMD & Security Deposit	17046710	0		
Fixed Deposit with TGB NITA Br-Inst. Dev. Fund	47211782	15595070		
		20243575		216295171
b) With Non Sheduled banks				
- On Current Account				
- On Deposit Account				
- On Savings Accounts				
5) Post office Savings Accounts:				
		282815612		
TOTAL		597339237		703395382

(Jagajyoti Roy)

Registrar (Finance)
National Institute of Technology(SUMANTA CHAKRABARTI)
Registrar (I/C)
National Institute of Technology(Dr. Gopal Mugeraya)
Director
National Institute of Technology

FORM OF FINANCIAL STATEMENTS FOR PREPARED BY AGARTALA						
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	31.03.2014	30268531331	2964056	30.05.2015	3239960	SBI Agt Br.
2	31.03.2014	30772128735	40029	30.05.2015	43755	SBI Agt Br.
3	15.03.2014	234840100086372	7166134	15.03.2016	8570697	Canara Bank, Agt Br
3	26.03.2014	3248401000426/1	8000000	26.03.2016	9568001	Canara Bank, Agt Br
4	26.03.2014	3248401000426/2	6996391	26.03.2016	8367683	Canara Bank, Agt Br
		TOTAL	25166610		29790096	
(ii) Retirement Benefit Fund						
1	02.04.2014	30359168928	1956711	02.04.2017	2496068	SBI, NITA Br.
2	31.03.2015	503	3616008	08.06.2016	3692271	TGB NITA Br.
3	31.03.2015	504	3616008	08.06.2016	3692271	TGB NITA Br.
4	31.03.2015	505	2892305	08.06.2016	3169815	TGB NITA Br.
5	31.03.2015	506	2169606	08.06.2016	2377364	TGB NITA Br.
6	31.03.2015	507	1446403	08.06.2016	1584908	TGB NITA Br.
7	31.03.2015	508	723909	08.06.2016	793229	TGB NITA Br.
8	06.02.2015	33642380099	2841118	06.02.2016	3036066	SBI, NITA Br.
9	06.02.2015	33642380191	1704671	06.02.2016	1837839	SBI, NITA Br.
10	06.02.2015	33642380351	1704671	06.02.2016	1837839	SBI, NITA Br.
11	06.02.2015	33642380500	1704671	06.02.2016	1837839	SBI, NITA Br.
12	06.02.2015	33642380634	1704671	06.02.2016	1837839	SBI, NITA Br.
13	06.02.2015	33642380736	1704671	06.02.2016	1837839	SBI, NITA Br.
14	06.02.2015	33642380872	1704671	06.02.2016	1837839	SBI, NITA Br.
15	06.02.2015	33642381004	1704671	06.02.2016	1837839	SBI, NITA Br.
16	06.02.2015	33642379708	1704671	06.02.2016	1837839	SBI, NITA Br.
17	06.02.2015	33642379822	1704671	06.02.2016	1837839	SBI, NITA Br.
18	06.02.2015	33642379866	1704671	06.02.2016	1837839	SBI, NITA Br.
19	06.02.2015	33642379968	1704671	06.02.2016	1837839	SBI, NITA Br.
20	12.03.2015	34783448095	1000000	12.03.2016	1087748	SBI NITA Br.
21	12.03.2015	34783447976	1000000	12.03.2016	1087748	SBI NITA Br.
22	12.03.2015	34788447885	1000000	12.03.2016	1087748	SBI NITA Br.
23	12.03.2015	34783447772	1000000	12.03.2016	1087748	SBI NITA Br.
24	12.03.2015	34783447727	1000000	12.03.2016	1087748	SBI NITA Br.
25	12.03.2015	34783447705	1000000	12.03.2016	1087748	SBI NITA Br.
26	12.03.2015	34783447568	1000000	12.03.2016	1087748	SBI NITA Br.
27	12.03.2015	34783447477	1000000	12.03.2016	1087748	SBI NITA Br.
28	12.03.2015	3478347400	1000000	12.03.2016	1087748	SBI NITA Br.
29	12.03.2015	34783447295	1000000	12.03.2016	1087748	SBI NITA Br.
		TOTAL	48013949		51935701	

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

(SUMANTA CHAKRABARTI)
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Director
National Institute of Technology



[illegible]

(Dr. Gopal Mugeraya)
Director
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(SUMANTA CHAKRABARTI)
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National Institute of Technology

(Jagatiyoti Roy)
Ass't. Registrar (Finance)
National Institute of Technology
Assam, Tezpur

43	22.03.2015	32249818696	660545	22.03.2016	712191	SBI, NITA Br.
46	11.04.2014	32280294988	619748	11.04.2015	670577	SBI, NITA Br.
47	11.05.2014	32327269715	626014	11.05.2015	678158	SBI, NITA Br.
48	29.06.2014	32401165700	673430	29.06.2015	673430	SBI, NITA Br.
49	19.07.2014	32435516795	864136	19.07.2015	864136	SBI, NITA Br.
50	30.08.2014	32509160200	822419	30.08.2015*	891205	SBI, NITA Br.
51	22.09.2014	32560299037	901252	22.09.2015	981255	SBI, NITA Br.
52	12.10.2014	32599643066	883427	12.10.2015	954695	SBI, NITA Br.
53	16.11.2014	32659511373	940499	16.11.2015	1016401	SBI, NITA Br.
54	07.12.2014	32697478395	942876	07.12.2015	1018999	SBI, NITA Br.
55	11.01.2015	32764700868	920139	11.01.2016	991980	SBI, NITA Br.
56	19.02.2015	32834658624	1074001	19.02.2016	1157923	SBI, NITA Br.
57	07.03.2015	32868656275	1023960	07.03.2016	1103999	SBI, NITA Br.
58	13.04.2014	32939260002	927942	13.04.2015	1005654	SBI, NITA Br.
59	11.05.2014	32991319180	953021	11.05.2015	1032833	SBI, NITA Br.
60	19.07.2014	33139988769	990095	19.07.2015	1072885	SBI, NITA Br.
61	19.07.2014	33139997241	981372	19.07.2015	1063433	SBI, NITA Br.
62	21.08.2014	33225984529	1014084	21.08.2015	1098999	SBI, NITA Br.
63	12.09.2014	33289675550	958473	12.09.2015	1038646	SBI, NITA Br.
64	15.10.2014	33379020737	1032964	15.10.2015	1116294	SBI, NITA Br.
65	13.11.2014	33447651803	1073408	13.11.2014	1160033	SBI, NITA Br.
66	11.12.2014	33513368081	1073408	11.12.2015	1157229	SBI, NITA Br.
67	02.01.2015	33556271054	1082152	02.01.2016	1166630	SBI, NITA Br.
68	13.02.2015	33654581837	1062477	13.02.2016	1145489	SBI, NITA Br.
69	10.03.2015	33714504141	1063570	10.03.2016	1146712	SBI, NITA Br.
70	18.04.2014	33790534221	964000	18.04.2015	1053732	SBI, NITA Br.
71	07.05.2014	33824424555	1024000	07.05.2015	119317	SBI, NITA Br.
72	09.06.2014	33885767374	1024000	09.06.2015	119317	SBI, NITA Br.
73	09.07.2014	33951373023	1041000	09.07.2015	1137900	SBI, NITA Br.
74	19.08.2014	34052685763	1072000	19.08.2015	1171785	SBI, NITA Br.
75	15.09.2014	34193289361	1061000	15.09.2015	159761	SBI, NITA Br.
76	27.10.2014	34340260470	1113000	27.10.2015	1213630	SBI, NITA Br.
77	26.11.2014	34431831658	1100000	26.11.2015	1199455	SBI, NITA Br.
78	11.12.2014	34483805683	1100000	11.12.2015	1196523	SBI, NITA Br.
79	14.01.2015	34601339743	1098000	14.01.2016	1194347	SBI, NITA Br.
		TOTAL	59333605		63985815	
iv) Sponsored Project Fund						
1	31.03.2015	459	2335280	08.06.2016	2558903	TGB NITA Br.
2	31.03.2015	460	3114010	08.06.2016	3412202	TGB NITA Br.
3	31.03.2015	461	4671014	08.06.2016	5118303	TGB NITA Br.
4	31.03.2015	462	3892512	08.06.2016	4265253	TGB NITA Br.
5	31.03.2015	463	1557004	08.06.2016	1706100	TGB NITA Br.
6	31.03.2015	476	2335864	08.06.2016	2559542	TGB NITA Br.

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	31.03.2015	477	2180141	08.06.2016	2389008	TGB NITA Br.
8	31.03.2015	478	2024415	08.06.2016	2218270	TGB NITA Br.
9	31.03.2015	479	1868691	08.06.2016	2047634	TGB NITA Br.
10	31.03.2015	480	1712964	08.06.2016	1876995	TGB NITA Br.
11	31.03.2015	481	1712965	08.06.2016	1876996	TGB NITA Br.
12	31.03.2015	482	1712965	08.06.2016	1876996	TGB NITA Br.
13	31.03.2015	483	1712965	08.06.2016	1876996	TGB NITA Br.
14	31.03.2015	484	1712965	08.06.2016	1876996	TGB NITA Br.
15	31.03.2015	485	1712965	08.06.2016	1876996	TGB NITA Br.
16	31.03.2015	486	1557243	08.06.2016	1706362	TGB NITA Br.
17	31.03.2015	487	1245794	08.06.2016	1365089	TGB NITA Br.
18	31.03.2015	488	935260	08.06.2016	1024819	TGB NITA Br.
19	31.03.2015	489	623506	08.06.2016	683212	TGB NITA Br.
20	31.03.2015	490	311466	08.06.2016	341291	TGB NITA Br.
21	31.03.2015	8026142100058	6512238	08.06.2016	7135839	TGB NITA Br.
22	31.03.2015	8026142100067	6607310	08.06.2016	7240008	TGB NITA Br.
23	31.03.2015	8026142100076	6607305	08.06.2016	7240010	TGB NITA Br.
24	31.03.2015	8026142100085	6607305	08.06.2016	7240010	TGB NITA Br.
25	31.03.2015	8026142100094	5285843	08.06.2016	5792007	TGB NITA Br.
26	31.03.2015	8026142100100	3964382	08.06.2016	4344005	TGB NITA Br.
27	31.03.2015	8026142100119	2642921	08.06.2016	2896004	TGB NITA Br.
28	31.03.2015	8026142100128	1321459	08.06.2016	1448000	TGB NITA Br.
		TOTAL	78478752		85993746	
v) Infrastructure 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.
		TOTAL	7534204		11473048	
v) Institute Development Fund						
1	31.03.2015	509	4339210	08.06.2016	4754726	TGB NITA Br.
2	31.03.2015	510	3616008	08.06.2016	3962271	TGB NITA Br.
3	31.03.2015	511	3616008	08.06.2016	3962271	TGB NITA Br.
4	31.03.2015	512	2892805	08.06.2016	3169815	TGB NITA Br.
5	31.03.2015	513	2169606	08.06.2016	2377364	TGB NITA Br.

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6	31.03.2015	514	1446403	08.06.2016	1584908	TGB NITA Br.
7	31.03.2015	515	723909	08.06.2016	793229	TGB NITA Br.
8	06.02.2015	33642377597	1703162	06.02.2016	1836211	SBI NITA Br.
9	06.02.2015	33642378738	1704671	06.02.2016	1837839	SBI NITA Br.
20	12.03.2015	34783371607	5000000	12.03.2016	5438740	SBI, NITA Br.
21	12.03.2015	34783371562	5000000	12.03.2016	5438740	SBI, NITA Br.
22	12.03.2015	34783371459	5000000	12.03.2016	5438740	SBI, NITA Br.
23	12.03.2015	34783371051	5000000	12.03.2016	5438740	SBI, NITA Br.
24	12.03.2015	34783369621	5000000	12.03.2016	5438740	SBI, NITA Br.
		TOTAL	47211782		51472334	
vii) EMD & Security Deposit Fund						
1	06.02.2015	33642378772	1704671	06.02.2016	1837839	SBI NITA Br.
2	06.02.2015	33642378909	1704671	06.02.2016	1837839	SBI NITA Br.
3	06.02.2015	33642378976	1704671	06.02.2016	1837839	SBI NITA Br.
4	06.02.2015	33642379038	1704671	06.02.2016	1837839	SBI NITA Br.
5	06.02.2015	33642378107	1704671	06.02.2016	1837839	SBI NITA Br.
6	06.02.2015	33642379232	1704671	06.02.2016	1837839	SBI NITA Br.
7	06.02.2015	33642379301	1704671	06.02.2016	1837839	SBI NITA Br.
8	06.02.2015	33642379436	1704671	06.02.2016	1837839	SBI NITA Br.
9	06.02.2015	33642379538	1704671	06.02.2016	1837839	SBI NITA Br.
10	06.02.2015	33642379606	1704671	06.02.2016	1837839	SBI NITA Br.
		TOTAL	17046710		18378390	
viii) Moutoshi Kar Memorial						
1	24.02.2015	34732977775	30000	31.12.2015	31960	SBI NITA Br.
		GRAND TOTAL	282815612		313061090	



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





FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2015			
SCHEDULE 8 LOAN, ADVANCES & DEPOSITS	Current Year 2014-2015	Previous Year 2013-2014	
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)	2121255	6873076	
RD Deptt(Const of Security Barrack)	0	1252560	
RD Deptt(Const of Market Complex)	0	22834212	32959848
b) Prepaid Expenses			
Loan to NIMCET Fund			
c) Others	0		800000
Temporary Advance to Sundry Parties			
LTC Advance to Employees	1284332		2454990
4) INCOME ACCRUED	12000		174000
a) On Investment - Others.			
i) Interest on Fixed Deposit-General A/c	2277578	0	0
ii) Interest on Fixed Deposit-SDP Fund	0	0	0
5) CLAIMS RECEIVABLE			
- Accrued Grant: Non Plan			0
- Accrued Grant: Plan			0
TOTAL	7695165		36388838

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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 31.03.2015		
SCHEDULE 9 - ACADEMIC RECEIPTS		
	Current Year	(Amount - Rs.) Previous Year
1) Academic Collection	2014-2015	2013-2014
2) Annual Fees / Subscription	177216930	116603771
3) Seminar / program Fees		
4) Consultancy Fees		
5) Others (Specify)-		
TOTAL	177216930	116603771
<div style="display: flex; justify-content: space-between;"> <div>  (Jagatiyoti Roy) Asstt. Registrar (Finance) National Institute of Technology Agartala, Tripura </div> <div>  </div> <div>  (SUMANTA CHAKRABARTI) Registrar (i/c) National Institute of Technology Agartala, Tripura </div> <div>  (Dr. Gopal Mugeraya) Director National Institute of Technology Agartala </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 31.03.2015			
SCHEDULE 10 - GRANTS / SUBSIDIES	Current Year 2014-2015	(Amount - Rs.) Previous Year 2013-2014	
(Irrevocable Grants & Subsidies received)			
1) Central Govt.			
a) From MHRD- Non Plan	150000000	190000000	
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	150000000	190000000	

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 31.03.2015			
SCHEDULE 11 - INCOME FROM INVESTMENTS	Current Year 2014-2015	(Amount - Rs.) Previous Year 2013-2014	
1) On Term Deposits:			
a) With scheduled Banks- Non-Plan Fund		0	
State Bank of India, NIT Agartala Br.		0	
Canara Bank, Agartala Br		0	
b) With Non scheduled Banks		0	
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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Asstt. Registrar (Finance)
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Agartala, Tripura



FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
Name of Entity: NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA			
SCHEDULES FORMING PART OF BALANCE SHEET FOR THE PERIOD/ YEAR ENDED 31.03.2015			
	Current Year 2014-2015	(Amount - Rs.) Previous Year 2013-2014	
SCHEDULE 10A - STIPEND FUND			
RECEIPTS			
Opening Balance	458605	477490	
1) State Govt. fund for Stipend			
a) SC & OBC Welfare Deptt	0	0	
b) SC Welfare Deptt-SC Stipend	0	0	
c) SDM-ST Stipend	0	0	
d) DHE- NEC Stipend	0	0	
e) Post Madhyamik & OBC	0	252000	
f) ST Welfare Society			
2) Govt. Agencies			
a) NEC-Shillong-National Scholarship			
b) NEC-Shillong-Stipend	0	0	
3) Institution / Welfare bodies			
4) Stipend-Other State	4405082	9708866	
TOTAL (i)	4863687	10438356	
EXPENDITURE			
NEC-Stipend	0	23200	
Post Madhyamik Stipend	0	0	
Otherstate-Stipend	4552682	9705526	
Post Matric Scholarship-SC & OBC	0	0	
Post Matric Scholarship-ST	0	4600	
LIG-Stipend	0	0	
Post Matric Scholarship-OBC	0	246425	
Refund to SDM(ST Stipend)	0	0	
TOTAL (ii)	4552682	9979751	
Net Amount (Tr. to Schedule 3)	311005	458605	

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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 31.03.2015		
SCHEDULE 12 - INTEREST EARNED	Current Year 2014-2015	(Amount - Rs.) Previous Year 2013-2014
1) On Term Deposits:		
a) With scheduled Banks- Non-Plan Fund		
State Bank of India, NIT Agartala Br.	271870	0
Canara Bank, Agartala Br.		431761
b) With Non scheduled Banks	2005708	3021304
c) With Institutions		
d) Others		
2) On Savings Accounts:		
a) With scheduled Banks		
Non-Plan Fund:		
Canara Bank, Agartala Br.		
State Bank of India, NIT Agartala Br.	5493203	6541405
Plan Fund:		
Canara Bank, Agartala Br.	0	0
State Bank of India, NIT Agartala Br.	6302962	13794592
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)	5765753	6495469
4) Interest on Debtors and Other Receivables		0
TOTAL	19839496	30284531
<div style="display: flex; justify-content: space-between;"> <div> <p>(Jagatiyoti Roy)</p> <p>Asstt. Registrar (Finance)</p> <p>National Institute of Technology</p> <p>Agartala, Tripura</p> </div> <div> <p>(Sumantra Chakrabarti)</p> <p>Registrar (I/C)</p> <p>National Institute of Technology</p> <p>Agartala, Tripura</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 31.03.2015			
		(Amount - Rs.)	
	Current Year 2014-2015	Previous Year 2013-2014	
SCHEDULE 13 - OTHER INCOME			
A. Income from Land & Building	0		
B. Sale of Institute's Publications			
C. Income from holding events			
D. Others (Specify)-			
a) Misc Income	301074	213985	
b) Recruitment Fees(Interview)	0	0	
c) Sale of Tender Form	0	359980	
TOTAL	301074	573965	
SCHEDULE 14 - PRIOR PERIOD INCOME		(Amount - Rs.)	
	Current Year 2014-2015	Previous Year 2013-2014	
1. Academic Receipts	0	0	
2. Income from Investments			
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 31.03.2015

SCHEDULE 15 - STAFF PAYMENT & BENEFIT	(Amount - Rs.)	
	Current Year 2014-2015	Previous Year 2013-2014
a) Salaries and Wages		
i) Regular Faculty & Staffs	128916204	
ii) Contractual Faculty & Staffs	53310187	
b) Allowances and Bonus	1449117	
c) Contribution to Provident fund	0	0
d) Contribution to other funds (Specify)		
e) New Pension Scheme Fund-Tier-I		
f) Staff Welfare Expenses	6384753	5615267
g) Expenses on Employees Retirement and Terminal benefits	0	0
h) LTC Facility	0	0
i) Medical Facility	3252538	4091232
j) Children Education Allowance	192071	158373
k) Other (Specify)	759071	
1) Telephone Re-imbursement	146733	68913
2) CPDA	5558496	3529956
TOTAL	226057958	197139249

SCHEDULE 16 - ACADEMIC EXPENSES	(Amount - Rs.)	
	Current Year 2014-2015	Previous Year 2013-2014
a) Laboratory Expenses	1257431	
b) Honorarium to Visiting Examiner & others	3790827	849206
c) Expenses on Workshop	13380	445897
d) Convocation Expenses	1989592	5197542
e) Scholarship-Institute	43794263	19905932
f) Others (specify)	0	0
1) Contingency to PhD/M.Tech	567224	
TOTAL	51532717	26398577

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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 31.03.2015

SCHEDULE 17 - ADMINISTRATIVE & GENERAL EXPENSES	Amount - Rs.)	
	Current Year 2014-2015	Previous Year 2013-2014
a) Electricity and Power	25277214	25231533
b) Water Charges		0
c) Postage	109500	96440
d) Printing & Stationery	1495188	4109059
e) Travelling & Conveyance Expenses	2185595	1765528
f) Expenses on Seminar	260535	0
g) Hospitality Expenses	479134	264606
h) Advertisement and publicity	1560394	2444966
i) Newspaper & Periodical	15060	10952
j) Telephone & Communication	478004	521792
k) Others (Specify)		0
1) Miscellaneous Expenses	134468	141107
2) Medicine Expenses	1642600	972614
3) Institution Membership Exp		49000
4) Recruitment expenses		806058
5) Livertes		51099
6) Security Services	27223875	28966699
7) Gardening Expenses	4982181	3194874
8) Sweeping & Cleaning	13564537	12894078
9) Lawyer Fees	99450	203115
10) Networking Expenses		362181
11) Games, Sports & Cultural Activity	4583136	3117917
12) Internal Audit Fees	28500	22472
13) Statutory Audit Fees-A.G.	389055	50000
14) Rent to PWD-Agartala Transit House	34050	19200
15) BOG Meeting Expenses	740263	966857
16) Cable Charges		3500
17) Expenses for Golden Jubilee	1185334	0
18) Vset Expenses	252810	
TOTAL	86720883	86265647

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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 31.03.2015

SCHEDULE 18 - TRANSPORTATION EXPENSES	(Amount - Rs.)	
	Current Year 2014-2015	Previous Year 2013-2014
a) Registration, Insurance etc. for new Car.	234268	173434
b) Transportation Expenses	202267	1257377
c) Vehicle Repair & Maintenance	352360	179491
d) Fuel Charges	1200836	0
e) Others (Specify)		
TOTAL	1989731	1610302

SCHEDULE 19 - REPAIRS & MAINTENANCE	(Amount - Rs.)	
	Current Year 2014-2015	Previous Year 2013-2014
a) Repair & Maintenance	2284031	3117071
b) Repairs & Maints-Electricals	376243	835087
c) Repair & Maintenance - Building	1980750	5098301
d) Repair & Maintenance - Computer & Accessories	1504687	0
e) Others (Specify)		
TOTAL	6145711	9050459



(Dr. Gopal Mugeraya)
 Director
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 Agartala

(SUJANTA CHAKRABARTI)
 Registrar (I/C)
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 Agartala

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

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 31.03.2015

SCHEDULE 20 - FINANCE COSTS	(Amount - Rs.)	
	Current Year 2014-2015	Previous Year 2013-2014
a) Interest on Fixed Loans	0	0
b) Interest on Other Loans	0	0
c) Bank Commission	21355	141252
d) Others (Specify)	0	0
TOTAL	21355	141252

SCHEDULE 21 - OTHER EXPENSES	(Amount - Rs.)	
	Current Year 2014-2015	Previous Year 2013-2014
a) Provision for Bad and Doubtful 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 2014-2015	Previous Year 2013-2014
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)	0	0
TOTAL	0	0

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 Agartala, Tripura

(Dr. Gopal Mugeraya)
 Director
 National Institute of Technology
 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 2014-15 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-IFD 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 accrual basis. Sale of application/ tender forms & 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.

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Agartala, Tripura

(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 Reducing Balance Method/Diminishing Return Method as per rates specified in the guidelines & format of Ministry of HRD, Government of India in respect of following Assets.

(i) Building- 2%, (ii) Electrical Installation- 5%, (iii) Plant & Machinery- 5%, (iv) Lab Equipment- 8%, (v) Office Equipment- 7.5%, (vi) Computer & Associates- 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 2014-15.

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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. Fixed Deposit was made under the New Pension Scheme Fund-Tier-I upto December 2014. Now NPS contributions are remitted to CRA (NSDL) on monthly basis from January 2015 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	Infrastructure Development Fund	TGB, NIT Agartala Br	8026010030064

12. CAPITAL COMMITMENTS:

All major construction works are being executed by CPWD, RD Deptt, Government of Tripura, Bridge & Roof & 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 31.03.2015 and Income and Expenditure and Receipts and Payment Accounts for the year ended on that date.

(Jagatiyoti Roy)
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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 31.03.2015

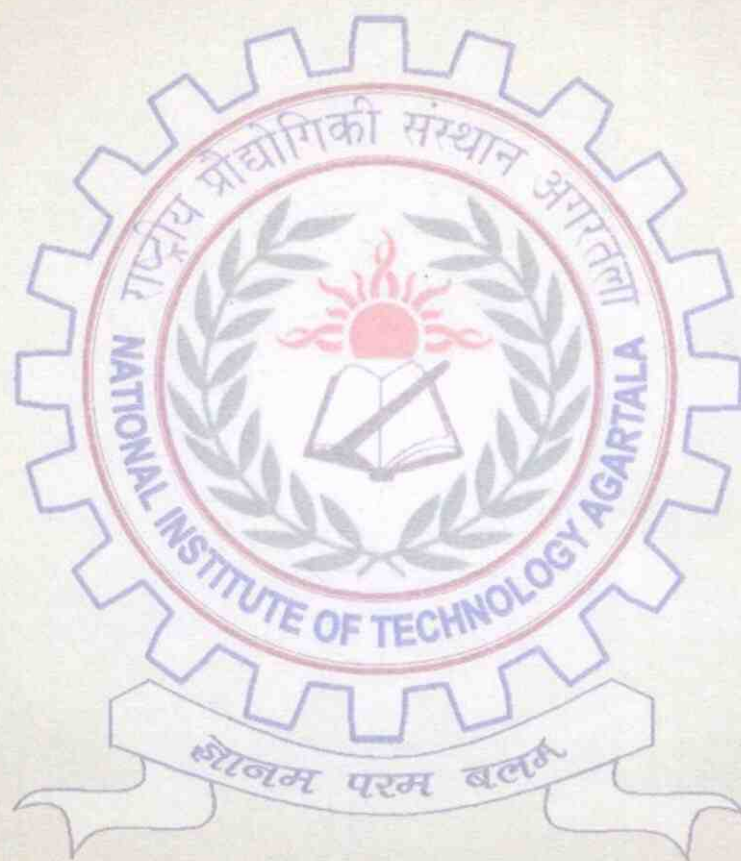
Particulars	Current Year 2014-15	Previous Year 2013-14
A. CASH FLOW FROM OPERATING ACTIVITIES		
Suspense/(deficit) for the year	(12,42,21,839)	(19,26,74,951)
Less: Expenditure on other Fund (NMEICT)	50,127	-
Adjustments for the Non-operating Incomes/Expenses		
Depreciation	4,93,72,484	18,57,37,732
Write offs	-	-
Interest expenses on Loans	-	18,57,37,732
(Increase)/Decrease in Current Assets		
Increase/(Decrease) in Current Liabilities	1,44,15,06,202	(69,37,219)
	(7,04,16,188)	29,56,01,283
Net Cash Flow from Operating Activities	1,29,61,90,532	(26,04,07,602)
B. CASH FLOW FROM INVESTING ACTIVITIES		
(Purchase)/Sale of Fixed Assets	(2,20,77,42,184)	(91,74,39,772)
(Purchase)/Sale of Fixed Investments	(30,000)	(34,54,065)
Interest received	-	
Net Cash Flow from Investing Activities	(2,20,77,72,184)	(92,08,93,837)
C. CASH FLOW FROM FINANCING ACTIVITIES		
Additions to General Fund during the year		
Grants/funds in nature of founders/promoters contribution	1,24,35,176	1,91,51,048
Endowment fund(principal sum)	78,96,35,140	99,02,02,771
Interest paid on Loans	80,20,70,316	1,00,93,53,819
Net Increase in Cash Equivalents (A+B+C)	(10,95,11,336)	11,67,16,444
Cash and cash Equivalents as at the beginning of F.Y.	33,48,54,012	21,81,37,568
Cash and Cash Equivalent at the end of the period	22,53,42,676	33,48,54,012

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