





NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

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From the Director's Desk...

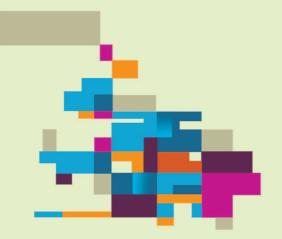


It is extremely delightful for me to present the Annual Report of National Institute of Technology Silchar, Assam for the year 2017-2018. National Institute of Technology Silchar, an Institute of National Importance, previously known as Regional Engineering College, Silchar, started its academic activities in the year 1977. NIT Silchar holds a respectable position among premier technical institutes in the country and has been consistently excelling in academics, research and innovation.

In the last four decades, the Institute has flourished and progressing gracefully in the field of engineering education. The Institute was established in the year 1977, and has a proud strength of 3400 students including UG, PG and research scholars. It gives me immense pleasure to mention that in the National Institute Ranking Framework (NIRF) announced by the Ministry of HRD in 2018, NIT SIlchar has been ranked 57th among all the top 100 Engineering Institutes/ universities in the country. It ranked 2nd in the North Eastern Region after IIT Guwahati, 36th in The Week survey and 18th in the survey conducted by Data quest for top 100 technical schools in India. National Board of Accreditation (NBA) has accredited eight programs of NIT Silchar among the twenty-one eligible UG & PG engineering programs. Nine PG programs out of fifteen are in process of the accreditation and periodically assessed by NBA. We hope that the remaining programs will be accredited soon in near future. This was possible only because of the unconditional support, cooperation and contribution of all stake holders specially faculty members, staff, students and alumni of NIT Silchar.

The Annual Report is prepared based on the various activities of the Institute during the year of reporting of 2017-2018 specifically highlighting the achievements of the institute. I express my sincere gratitude to the MHRD and the State Government for their whole hearted support and co-operation. I am specially thankful to all the members BOG, FC, B&WC, Senate, faculty, staff, students and alumni of NIT Silchar for their commitment and contribution towards the growth of the institute and I firmly believe we will conquer the epitome of successwith all the dedication and persistence, and will be leading as topmost technical institute of the country.

Prof. Sivaji BandyopadhyayDirector, NIT Silchar



Mission

The mission of NIT Silchar is to train and transform young men and women into responsible engineers, technologists and scientists to motivate them to attain professional excellence and to inspire them to proactively engage themselves for the betterment of the society.

Vision

The vision of NIT Silchar is to establish a unique identity by developing quality human and knowledge resources in diverse areas of technology to meet local, national and global economic and social needs as well as the needs of human society at large in self-sustained manner.

Objectives

- To impart the best technical education at both the Undergraduate/Postgraduate level so as to train the students to be able to boldly face a world that is being transformed by scientific and technological advances.
- To engage in research work beneficial to Industry as well as society and disseminate the research findings.
- To provide knowledge based technological services to satisfy the needs of the industry as well as society.
- To help in building national capabilities in developing technologies, opening up new vistas in education and research.
- To promote Institute-Industry interaction through sponsored research by sponsoring faculty to work in Industry for short terms and by inviting people from Industry to deliver lectures etc.
- To promote national integration and impart value based education.



Introduction

Historical Background

In the fifties, the Government of India decided to establish Regional Engineering Colleges (RECs) under the Quality Technical Education Policy - one each in every major state - with prime objective of imparting quality technical education throughout the country and to foster national integration. These Reginal Engineering Colleges were established as joint ventures of the Government of India and the respective State Governments. Assam is considered as the flag bearer of the Northeast India and so in the year 1967 the 15th REC was officially established in Silchar. However it took almost a decade for REC SilCchar to start its academic programmes due to various constraints.

The first batch of students were admitted in 1977 in the BE programm in 3 branches of Engineering namely, Civil Engineering, Mechanical Engineering and Electrical Engineering. The total intake in the first batch was 60 students. The adequate infrastructure facilities consisted of only a part of a hostel, two Assam type buildings (for classes and administration), a workshop building, seven faculty quarters and a few staff quarters when the College started its academic programs in November 1977. Initially under the guidance of the then Principal Dr. H. R. Chablani, the classes started with only four full time Faculty members. The College started its academic program with affilation from Gauhati University. The first batch of BE students were awarded degrees in the year 1982-83. Subsequently, two more branches, namely, Electronics and Communication Engineering and Computer Science and Engineering started functioning from the year 1983 and 1987 respectively. The affiliation was later shifted to Assam University in 1994.

On the basis of the report of the High Powered Joint Expert Committee of AICTE and UGC under the chairmanship of Prof. S. K. Joshi, Director General of Council for Scientific and Industrial Research (CSIR), Regional Engineering College Silchar has been transformed and upgraded to National Institute of Technology, Silchar with the status of Deemed University on 28th June, 2002. The Institute has been taken over by Government of India and subsequently made into fully funded Central Government Autonomous Institution. This ensures a better financial status for NIT Silchar and will accelerate its growth ensuring that it becomes one of the premier technological institutes of not just the North East but the entire nation. The Institute has remodelled its curriculum and academic activitits in line with that of the IITs. With its Deemed University status, the institute started awarding degrees from the year 2002 and the first convocation of the Institute was held on 16th February 2004. The Government of India declared the Institute as an Institute of National Importance by enacting the National Institutes of Technology Act 2007.

Location

The Institute is situated at Silchar (latitude 24.50N, longitude 92.510E, at a height of 114.68m above MSL), at adistance of about eight kilometres to the south from the heart of the town on the Silchar-Hailakandi road in Cachar District of Assam. Silchar is well connected to rest of the country via airways, railways and roadways. The Institute boasts of state-of-the-art academica and research infrastructure, lecture theaters, laboratories, resource-centres, sport grounds, open-air theatre, hospital, food-courts and many more being embraced by the greenery, expansive teagradens and lakes.

Campus

The campus of the Institute is spread over an area of 540 acres, set admist a sprawling landscape of natural quietness, bordered by expansive tea gardens. It presents a spectacle of harmony in the form of modern architecture, natural beauty and picturesque surroundings.

The campus area has been organized in three functional sectors:

- Hostel, amenities and activity centres for students
- Academic blocks and administrative block
- Residential sectors for the staff

The instructional buildings are strategically located between the hostels and staff quarters to provide easy.



The Council, BOG and other Committees

The Council Composition of Council

SI. No	Members	Position
1	Minister in charge, Ministry of Human Resource Development, Govt.	Chairman (ex-officio)
2	Secretary to the Govt. of India, Deptt. of Higher Education, Ministry of Human Resource Development	Vice-Chairman (ex-officio)
3	The Chairperson of all National Institutes of Technology	Member (ex-officio)
4	Director of every National Institute of Technology	Member (ex-officio)
5	The Chairman, University Grant Commission	Member (ex-officio)
6	The Director General, Council for Scientific & Industrial Research	Member (ex-officio)
7	Secretary, Department of Bio-Technology, Govt. of India	Member (ex-officio)
8	Secretary, Department of Atomic Energy, Govt. of India	Member (ex-officio)
9	Secretary, Department of Information Technology, Govt. of India	Member (ex-officio)
10	Secretary, Department of Space, Govt. of India	Member (ex-officio)
11	The Chairman, All India Council for Technical Education	Member (ex-officio)
12	Not less than three, but not more than five persons to be nominated by the Visitor, at least one of whom shall be a women, having special knowledge or practical experience in respect of education, industry, science or technology	Member
13	Three Members of parliament, of whom two shall be chosen by the House of People and one by the Council of States	Member
14	Two Secretaries to the State Govt. of Maharashtra, from amongst the Ministries or departments of that government dealing with technical education	Member (ex-officio)
15	The Financial Advisor, Ministry of Human Resource Development, Govt. of India	Member Secretary (ex-officio)
16	Joint Secretary to the Govt. of India (Technical)/Additional Secretary (Technical)/ Department of Higher Education, Ministry of Human Resource Development	Member (ex-officio)

Board of Governors

Name and Position of Board of Governors

Name and Address	Position
Prof. Rajat Gupta Director i/c NIT Silchar (upto 30.11.17)	Chairperson
Prof. Sivaji Bandyopadhyay, Director NIT Silchar w.e.f 01.12.2017	(Acting)
Sri. R Subrahmanyam, Special Secretary (AE), Dept. of Higher Education, MHRD, Gol	Member
Ms. Darshana M Dabral, JS & FA, Integrated Finance Division, Dept. of Higher Education, MHRD, Gol	Member
Sri Ajay Tiwari, Principal Secretary, Higher Education Department, Government of Assam.	Member
Ms. Krishna Gohain, Director of Technical Education, Kahilipara Guwahati, Assam – 781019.	Member
Prof. S. L. Bapat, Professor Department of Mechanical Engineering, IIT Bombay	Member
Prof. Uma Bhattacharjee, Head Department of CSE, IIEST Shibpur	Member
Dr. S.K. Kakoty, Dean of Infrastructure, Planning and Management, IIT Guwahati	Member
Dr. K.M. Pandey, Professor, Department of Mechanical Engineering, NIT Silchar	Member
Dr. L.C.Saikia, Assistant Professor, Department of Electrical Engineering, NIT Silchar	Member
Prof. A. K. Barbhuiya, Registrar, NIT Silchar	Member Secretary

Finance Committee

Name and Address	Position				
Prof. Rajat Gupta, Director i/c , NIT Silchar	Chairman				
Prof. Sivaji Bandyopadhyay, Director, NIT Silchar w.e.f 01.12.2017	(Acting)				
Sri. R Subrahmanyam, Additional Secretary (TE), Dept. of Higher Education, MHRD, GOI	Member				
Ms. Darshana M Dabral, JS & FA, Integrated Finance Division, Dept. of Higher Education, MHRD, GOI	Member				
Prof. S. L. Bapat, Professor Department of Mechanical Engineering, IIT Bombay	Member				
Dr. S.K. Kakoty, Dean of Infrastructure, Planning and Management, IIT Guwahati	Member				
Prof. A.K. Barbhuiya, Registrar & Member Secretary, NIT Silchar					
	Secretary				

Building and Works Committee

Name and Address	Position
Prof. Rajat Gupta Director i/c NIT Silchar	Chairman (Acting)
Prof. Sivaji Bandyopadhyay, Director NIT Silchar w.e.f 01.12.2017	
Sri Sanjeev Sharma, Director NITs, Dept. of Higher Education, MHRD	Member
Sri Anil Kumar, Director (IFD), Dept. of Higher Education, MHRD	Member
Prof. U. Kumar, Board Nominee, Civil Engineering Department, NIT Silchar	Member
Dr. P. Rajbongshi, Dean (P&D), Civil Engineering Department, NIT Silchar	Member
Prof. A.I. Laskar, Dean (P&D), Civil Engineering Department, NIT Silchar	
Superintendent Engineer, PWD, Silchar Building Circle	Member
Executive Engineer (Electrical), Office of Chief Engineer, PWD (Bldng), Assam	Member
Prof. A.K. Barbhuiya, Registrar & Member Secretary, NIT Silchar	Member Secretary

The Senate

Name and Position of Members of Senate

Name and Address	Position
Prof. Rajat Gupta, Director (i/c) and Chairman, Senate	Chairman
Prof. Sivaji Bandyopadhyay, Director and Chairman, Senate w.e.f 1/12/2017	
Prof. Fazal A Talukdar, Prof., ECE Deptt., NIT Silchar	Member
Prof. K M Pandey, Prof of ME Deptt, NIT Silchar	Member
Prof. A K Sinha, Prof of EE Deptt, NIT Silchar	Member
Prof Nidul Sinha, Professor of Electrical Engg,NIT Silchar	Member
Prof. S Baishya, Prof., ECE Deptt., NIT Silchar	Member
Prof. Gurudas Das, Prof of HSS, Deptt., NIT Silchar	Member
Prof. A K Dey, Professor of Civil Engineering, NIT Silchar	Member
Prof. P S Choudhury, Professor of Civil Engineering, NIT Silchar	Member
Prof. S Choudhury, Professor of Civil Engineering. NIT Silchar	Member
Prof. R D Misra, Prof, ME Deptt, NIT Silchar	Member
Prof. A I Laskar, Professor, Dept of Civil Engg, NIT Silchar	Member
Prof. D Chakraborty, Professor of Civil Engineering. NIT Silchar	Member
Prof. M A Ahmed, Professor of Civil Engineering, NIT Silchar	Member
Prof. B K Roy, Prof, Electrical Engineering Deptt. NIT Silchar	Member
Prof. N.C.Shivaprakash, Professor of Instrumentation & Applied Physics Dept., IISC Bangalore	Member
Prof. S.K.Deb, Professor of Civil Engineering Dept., IIT Guwahati	Member
Prof. (Mrs.) R.R.Dhamala, Professor of Political Science Dept., Assam University, Silchar.	Member
Prof. A.K. Barbhuiya, Registrar & Secretary, Senate	Member

Internal Complaint Committee

Name	Department Designation		Role in ICC
Dr. (Mrs.) Madhuchanda Choudhury	Electronics and Communication Engineering	Associate Professor	Presiding Officer
Dr. (Mrs) Mausumi Sen	Mathematics	Associate Professor	Member Secretary
Mrs. Madhumita Paul	Electronics and Communication Engineering	Associate Professor	Member
Dr. Krishnamati Sinha	Central Library	Assistant Librarian	Member
Dr. Binoy Krishna Roy	Electrical Engineering	Professor	Member
Smt Sanchita Acherjee	NGO		Member

DEANs and HoDs

SI No.	Name	me Department [
1	Dr. Mokaddes Ali Ahmed	Civil Engineering	Professor	S.W	
2	Dr. Asim Roy	Physics	Professor	R&C	
3	Dr. Srimanta Baishya	Or. Srimanta Baishya Electronics and Communication Engineering		Academic	
4	Dr. Nalin Behari Dev Choudhury	Electrical Engineering	Professor	Alumni	
E	Dr. P.Rajbongshi	Civil Engineering	Professor	P&D	
5	Dr. Aminul Islam Laskar	Civil Engineering	Professor		
6	Dr. Aminul Islam Laskar	Civil Engineering	Professor	FW	

Associate Dean till 31.03.2018

SI No.	Name	Department	n	Dean					
1	Dr. Arup Kumar Goswami	Electrical Engineering	Associate P	rofessor	Academic				
2	Dr. Debjit Bhowmik	Civil Engineering	rofessor Grade I	P&D					
3	Dr Jyoti Prakash Mishra	Electrical Engineering	Associate P	rofessor	P&D				
4	Dr. Ganti Ramesh	Mathematics	Assistant Pr	rofessor Grade I	S.W				
5	Dr. Dulal Chandra Das	Electrical Engineering	Assistant Pr	rofessor Grade I	S.W				
6	Dr. Saurabh Chaudhury	Electrical Engineering	Professor		S.W				
7	Dr. (Mrs) Mausumi Sen	Mathematics	Associate P	rofessor	R&C				
8	Mrs. Madhumita Paul	Electronics and Communication Engineering	Associate P	rofessor	F.W				
	List of HoDs till 31.03.2018								
SI No.	Name	Department	Designation						
1	Dr. Rupak Dutta	Physics	Assistant Professor Grade II						
2	Dr. Baban Haridas Shambharkar	Chemistry	Assistant Profess	sor Grade II					
3	Dr. Krishna Murari Pandey	Mechanical Engineering		Professor					
4	Dr. Santanu Roy	Mathematics		Associate Professor					
5	Dr N Bhupendro Singh	Humanities and Social Sciences		Associate Professor					
6	Dr. Upendra Kumar	Civil Engineering		Professor					
7	Dr. Saurabh Chaudhury	Electrical Engineering	Professor						
8	Dr. Fazal Ahmed Talukdar	Electronics and Communication E	Professor						
9	Dr Arup Bhattacharjee	Computer Science and Engineerin	Assistant Professor Grade I						
10	Dr. Rajdeep Dasgupta	Electronics and Instrumentation E	ngineering	Assistant Profess	sor Grade I				
11	Dr. Gurudas Das	Management Studies		Professor					

Education System

Undergraduate (B.Tech.)

Admission Procedure

Admissions to the first semester of all Undergraduate courses are made on the basis of seats allocated by Central Seat Allocation Board (CSAB) from the list of candidates selected by all India JEE (Main). Besides, aspecified number of foreign nationals/NRIs selected under the policy laid down by Govt. of India, are admitted directly to the 1st year of the courses.

Academic Calendar

The academic session is divided into two semesters each of approximately 17 weeks duration, an Odd Semester (July-December) and an Even Semester (January-June). The JEE (Main) selected candidates take admission in the first semester and on successful completion of the semester register for the subsequent semester on the dates specified in the Academic Calendar. The Senate approves the Academic Calendar consisting of schedules of activities for a session inclusive of dates for registration, mid-semester and end-semester examinations, inter-semester breaks etc. well in advance of a session. The Academic Calendar usually provides a total of about 90 working days in each semester.

Programme Structure

The duration of the programme leading to B.Tech.degree is four years. The curricula for the different degree programmes as proposed by the respective departments and recommended by the Departmental Undergraduate Programme Committee (DUPC) shall have the approval of the Senate. The departments would also prepare the syllabus of each subject containing the scope of studies and detailed instructions to be imparted which must have the approval of the Senate. All subjects would have a lecture-tutorial-practical (laboratory/ sessional) component (L-T-P) to indicatethe contact hours. The tutorial (T) or practical/ Sessional (P) component may be absent in certain courses. Separate laboratory subjects (0-0-P) may exist in certain cases as decided by the Senate on the recommendation of the DUPC. All subjects will have a credit count 'C'. Teaching of subjects will be reckoned in terms of credits. One hour lecture or tutorial class is designated as 2 credits while one hour practical class is designated asone credit. In each of the first year/ second year, there shall benon-credit compulsory Extra Academic Activity (EAA). The Extra Academic Activity may be N.S.S., N.C.C., orany other physical education. The curricula for B. Tech.programme includes compulsory Industrial training of 6-8 weeks duration after 6th semester in any reputed industry, research organization, IIT's and other reputed institutions which is assessed in the 7th Semester. The Project work will carry a total of 15-20 credits.

Registration and Assessment

Students are registered in every semester irrespective of number of credits they have earned at the end of every year. However, if a student fails to complete his/her courses in the stipulated first four years (8 semesters), the student is required to vacate the hostel and complete the remaining part of credits from outside.

- a) If a student fails in a course, s/he will have to repeat the course in the appropriate semester when the course is on offer. S/he may prefer to register that course and attend all classes and offer him/her fornormal evaluation or the student may prefer to appear the mid-semester and end-semester examination and his/her internal evaluation would be carried forward from the semester where s/he was regularly registered.
- b) A student may change an elective course within the time-frame mentioned in the academic calendar. If a student fails in an elective course, s/he may change the elective when s/he re-registers for the elective in the appropriate semester.
- c) The duration of the UG programme is normally four years. However, academically weak students are permitted to complete the programme in six years from the date of first registration.
- d) A student is permitted to register for few DD graded courses if the CPI of the student falls below 6.0 for improvement.

e) If a student fails to clear a subject in the end semester examination, then s/he is permitted to clear the same in the re-examination normally conducted within the first 15 days of the next semester. No reduction in grade is invoked if a student clears the subject in the re-examination.

Postgraduate (M.Tech. / M.Sc. / MBA)

The M.Tech. regulations provide the necessary guidelines for the two years regular Postgraduate programme and three years part-time programme in Engg. disciplines. Similarly the M.Sc./MBA regulations provide guidelines for 2 years (4 semesters) M.Sc./MBA course.

Academic Procedure M.Tech.

The courses leading to M.Tech. degree are open to candidates who have obtained the requisite qualification with 60% marks or 6.5 CGPA in aggregate in the qualifying examination. Statutory relaxation in the eligibility criterion is provided to candidates belonging to SC/ST communities. Admission for the GATE qualified candidates is made through Common Admission Process called Central Counselling for M.Tech./M. Plan/M.Arch (CCMT). When GATE qualified candidates are not available, admission is done on the basis of merit as decided by the Institute.

M.Sc. (Chemistry, Mathematics, Physics)

Admission to M.Sc. courses in Chemistry, Mathematics and Physics are based on career marking, written test and interview. Applicants must have secured at least 50% marks or a CPI of 5.5 in aggregate at B.Sc. level and preference is given to students having honours in the applied discipline. Statutory relaxation in the minimum eligibility criterion is provided to candidates belonging to SC/ST communities.

MBA

The minimum eligibility criterion for admission to MBA is Bachelor degree in any branch of Engg./science/humanities etc. with 50% marks or 5.5 CGPA and valid CAT/MAT/ CMAT scores. Final selection is made on the basis of Group Discussion and Personal Interview conducted at the Institute.

Programme Structure

Teaching for the courses is reckoned in credits. Due credit is given to lecture, tutorial (theory) and practical components for a given subject. Normally for M.Tech., first two semesters have theory and practical (laboratory) subjects while for MSc/ MBA, theory courses are taught in all the semesters.

The 3rd and 4th semester mostly constitute the project work for M.Tech. while for M.Sc./MBA, the project work spans over the fourth semester. MBA students undergo a compulsory summer internship after second semester. Project work and Seminar are essential part of the curricula. Class tests, assignments, tutorials, viva-voce, laboratory assignments, etc., are the constituent components of continuous assessment process and a student must fulfil all these requirements as prescribed by the teacher/coordinator of the subject.

Registration

Students in Postgraduate programmes register for the course at the beginning of each semester. These programmes do not have summer/re-examinations. Students securing 'F' grade in any course appear the examin the following session. Attendance in all classes is compulsory and assessment and evaluation pattern is similar to undergraduate course.

Research Programme (Ph.D.)

Students for admission to Ph.D. Programme in Engg. Departments must satisfy one of the following criteria:

- Master Degree in Engg./Technology or equivalent in an appropriate area with a minimum CPI of 6.5 or equivalent (60% of marks).
- Bachelor Degree in Engg./Technology with an excellent academic record and with a CPI of at least 8 or equivalent (70% of marks).

Students for admission to the Ph.D. Programme in Science Departments must have a Master degree in relevant discipline with a first class or a minimum of 60% of marks or equivalent.

Students for admission to the Ph.D. Programme in Humanities and Social sciences (HSS) Departments must have a Master degree with a minimum of 55% marks or equivalent. Selection of candidates is made on the basis of interview conducted by the department concerned.

Academic Programmes

Courses Offered

- A four years B.Tech. Programme in the following branches of Engineering and Technology, was offered during the period.
 - Civil Engineering
 - Mechanical Engineering
 - Electrical Engineering
 - Electronics & Communication Engineering
 - Computer Science & Engineering
 - Electronics & Instrumentation Engineering
- ii. Atwo- years M.Tech. M.Sc. & MBA programmes in the following branches of Engineering and Technology was offered during the period.

M.Tech (under Civil Engg. Department)

- Water Resources Engineering
- Geotechnical Engg.
- Transportation Engg.
- Structural Dynamics & Earthquake Engineering
- Structural Engineering.

M.Tech (under Electrical Engg. Department)

- Power and Energy systems Engineering.
- Control & Industrial Automation.

M.Tech (under Mechanical Engg. Department)

- Thermal Engineering.
- Design & Manufacturing.
- CAD-CAM & Automation.
- Materials & Manufacturing Technology.

M.Tech (under Electronics & Communication Engg. Department)

- Microelectronics & VLSI Design.
- Communication & Signal Processing Engg.
- ❖ M.Tech in Computer Science & Engg.
- M.Tech in Instrumentation Engg. (Under Electronics & Instrumentation Engineering)
- M.Sc. in Applied Chemistry (Chemistry Department)
- M.Sc. in Applied Physics (Under Physics Department)
- ❖ M.Sc. in Mathematics (Under Mathematics Department)
- MBA (Under Management studies)

B. Tech Enrollment

The following table shows the semester-wise, course wise enrollment with gender and caste breakup for the Year 2017-18.

The excess intake (over and above the intake capacity) was carried out as seat distribution programme made by MHRD.

C	Duonah	Ope		OE (Dress)		S(S ^C		F	PH	Total
sem	Branch	(Brea		(Brea		(Brea		(Brea		Davis	Circle	Enrolment
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys 10PH	Girls	Total
	Civil	53	3	32	1	13	4	08	1	2OBPH	10BPH	119
	Mech	50	2	34	2	16	1	09	-	20PPH 10BPH		117
1ST&42ND	Elect.	46	8	33	4	16	1	07	1	10PPH 10BPH	1OPPH	118
IST8	ECE	53	6	31	02	15	02	08	01	10PPH		119
`	CSE	40	8	25	2	13		03	03	10PPH		95
	EIE	26	3	15	01	07	02	04	01			59
	Total	268	30	170	12	80	10	39	06	10	2	627
	Civil	38	4	29	3	14	1	4	3	1 OPPH, 10BPH, 1 SCPH	-	99
+	Mech	41	4	32	1	17	-	6	3	20PPH, 20BPH	-	108
3RD &4TH	Elect.	43	7	27	2	14	1	6	3	20PPH	2OBPH	107
3D 8	ECE	51	4	26	3	14	3	5	-	1SCPH	-	107
31	CSE	38	8	21	2	13	-	6	-	1OPPH, 1 OBPH	-	90
	E&I	16	4	12	3	4	1	4	-	10PPH, 10BPH	-	46
	Total	227	31	147	14	76	6	31	9	14	2	557
	Civil	42	9	34	1	13	3	9	1	2 OPPH	-	113
	Mech	47	2	36	-	14	2	7	1	2 OPPH	-	111
픈	Elect.	31	8	36	6	14	4	6	1	1 OBPH	1 OPPH	108
5ТН & 6ТН	ECE	39	12	27	8	15	2	8	-	1 OPPH	-	112
5ТН	CSE	44	7	20	6	12	2	7	-	1 OPPH	-	99
	E&I	20	4	15	1	7	1	3	1	-	-	52
	Total	223	42	168	22	75	14	40	3	7	1	595
	Civil	44	6	31	6	14	3	8	3	1 OPPH	-	116
	Mech	61	4	35	-	18	-	8	1	3 OPPH	-	130
8ТН	Elect.	48	4	29	1	15	1	5	2	2 OPPH	-	107
8	ECE	52	8	26	7	15	-	7	2	0 OPPH	-	117
7TH &	CSE	44	7	25	2	13	-	3	2	2 OPPH	-	98
	EIE	22	2	14	2	8	1	2	1	1 OPPH	-	53
	Total	271	31	160	18	83	5	33	11	9	-	621
Gran	d Total	989	134	645	66	314	35	143	29	40	5	2400

CE= Civil Engineering, ME=Mechanical Engineering, EE= Electrical Engineering, ECE=Electronics & Communication Engineering, CSE= Computer Science & Engineering, E&I= Electronics & Instrumentation Engineering.

PG Enrollment (2017-2018)

		Op	en	S	C	ST	•	С	ВС		PH			
Sem	Branch	(Breal	k up)	(Brea	k up)	(Break	up)	(Break	up)	(Break	up)	То	tal	TOTAL
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	
	CE	43	6	11	4	1	3	24	2	0	0	79	15	94
	ME	23	3	8	0	1	1	15	0	0	0	47	4	51
	EE	17	2	4	2	0	3	5	1	0	0	26	8	34
sem	ECE	9	2	1	0	0	0	2	2	0	0	12	4	16
	CSE	8	4	3	0	1	0	1	0	0	0	13	4	17
lst	E&I	4	2	0	1	0	1	2	0	0	0	6	4	10
•	Total	104	19	27	7	3	8	49	5	0	0	183	39	222
	CE	39	4	10	1	3	2	14	3	0	0	66	10	76
	ME	18	3	3	0	3	0	13	2	0	0	37	5	42
Sem	EE	16	3	4	1	0	1	3	0	0	0	23	5	28
3 rd S	ECE	5	1	2	0	1	0	3	1	0	0	11	2	13
3	CSE	4	3	2	0	1	0	1	0	0	0	8	3	11
	E&I	3	0	0	1	1	0	2	1	0	0	6	2	8
•	Total	189	33	48	10	12	11	85	12	0	0	334	66	400
ц	PHY	3	0	2	0	1	0	0	0	0	0	6	0	6
Sem	CHEM	3	0	1	1	1	0	2	1	0	0	7	2	9
1 st	MATHS	2	1	1	0	0	0	2	0	0	0	5	1	6
_	PHY	4	2	0	0	1	0	1	1	0	0	6	3	9
Sem	CHEM	3	3	2	0	0	0	2	0	0	0	7	3	10
3^{rd}	MATHS	5	2	0	1	0	1	1	0	0	0	6	4	10
	Total	20	8	6	2	3	1	8	2	0	0	37	13	50
1 st	MBA	19	11	1	2	0	0	1	0	0	0	21	13	34
3rd	MBA	17	7	2	3	2	1	3	8	1	0	25	19	44
	Total	36	18	3	5	2	1	4	8	1	0	46	32	78
	G.Total	245	59	57	17	17	13	97	22	1	0	417	111	528

The following is a summary table of the number, B.Tech. Students on the roll of NIT Silchar during 2017-18.

Year	CE	ME	EE	ECE	CSE	EIE	TOTAL
2 ND	119	117	118	119	95	59	627
4 TH	99	108	107	107	90	46	557
6 TH	113	111	108	112	99	52	595
8 TH	116	130	107	117	98	53	621
	447	466	440	455	382	210	TOTAL-2400

Admission Statistics B.Tech (a) Indian Students Admitted

The following table shows the state-wise and course-wise admission statistics with category breakup for the year - 2017-18

Name of state	Category	CE	ME	EE	ECE	CSE	E&I	Total
	OP	30	26	28	30	21	15	150
	OBC	16	19	17	16	15	08	91
	SC	09	09	80	08	07	05	46
Assam	ST	04	05	05	05	03	02	24
	OPPH	01	01		01			3
	SCPH							
	OBPH							
	OP	01	06	04	03	04	03	21
Daisathan	OBC	01	01	01		01		4
Rajasthan	SC	03	02		01	01	01	8
	ST	02	01	02	01			6
	OP	06	04	80	02	02	04	26
	OBC	10	07	10	04	04	04	39
D:b o=	SC		03	01	01			5
Bihar	ST		01	-	-	01	01	3
	OPPH		01	01				2
	OBPH	01	01	01				3
	OP	13	07	06	09	05	02	42
	OBC	03	06	01	04	03	02	19
UP	SC	02	02	04	01	03	02	14
	OPPH							
	OBPH	01						01
	OP	03	01	01	05	02	01	13
A so allo se a	OBC		01	01	04		01	7
Andhra Pradesh	SC		01		01			02
Pracesn	ST		01		01			02
	OPPH							
	OP			01		01		02
Jharkhand	OBC	02		01				03
Kerala	OBC			01		01		02
Mizoram	ST	01						01
Orissa	OP		01	02				03
011334	OBPH	01						01
	OP			01		03	01	05
Maharashtra	OBC	01		03			01	05
	SC			01				01
Tamil Nadu	OP			01				01
	SC	01						01

Name of state	Category	CE	ME	EE	ECE	CSE	E&I	Total
Chhattisgarh	SC					01		01
	ST						01	01
	OP				01		02	03
Haryana	OPPH							
New Delhi	OP				01			01
	OP	01	03		04	4		12
Tolongono	OBC			01	04	2	-	07
Telangana	SC	01			03			04
	ST				2	2	1	05
	OP				01			01
Puducherry	OBC		01					01
	ST		01					01
	OP		01		01			02
Uttarakhand	OBC				01			01
	SC	01						01
	OP						01	01
West Bengal	SC			02	02	01	01	06
	OPPH					01		01
Meghalaya	ST	01						01
J&K	ST	01						01
JOIN	OPPH			01				01
	OP		02	02	02	01		07
MP	OBC		01	01		01		03
	SC			01				01
TRIPURA	OP		01			01		02
Foreign: 6(Sixth) Nos. foreign Students Afghanistan :2 Bangladesh: 4	Open	02		-		04		06
Grand T	otal	119	117	118	119	95	59	627

Admission Statistics M.Tech/M.Sc/MBA

(b) Indian Students Admitted

The following table shows the course-wise admission statistics with category breakup for the year -2017-18

ADMISSION STATISTICS (M.Sc. & MBA BRANCH WISE) FOR THE YEAR 2017-18

Programme	Specialization	Gen	eral	S	C	S1	Г	01	ВС	Pw	D	Spor	nsored	To	tal	Grand Total
Trogramme	Specialization	M	F	M	F	М	F	М	F	M	F	M	F	M	F	
	MATHEMATICS	2	1	1	0	0	0	2	0	0	0	0	0	5	1	6
M.Sc	PHYSICS	3	0	2	0	1	0	0	0	0	0	0	0	6	0	6
101.30	CHEMISTRY	3	0	1	1	1	0	2	1	0	0	0	0	7	2	9
	TOTAL	8	1	4	1	2	0	4	1	0	0	0	0	18	3	21
Management Studies	MBA	19	11	1	2	0	0	1	0	0	0	0	0	21	13	34
	TOTAL	19	11	1	2	0	0	1	0	0	0	0	0	21	13	34

ADMISSION STATISTICS (M.TECH BRANCH WISE) FOR THE YEAR 2017-18

Programme	Specialization	Gene	eral	S	С	S	T	OI	3C	P۱	νD	Spons	sored	То	tal	Grand
		M	F	M	F	M	` F	М	F	M	F	М	F	М	F	Total
	WRE	8	2	3	0	0	0	6	0	0	0	0	0	17	2	19
	SD & EQE	6	3	3	0	0	1	3	2	0	0	0	0	12	6	18
Civil Engg.	Transportation	10	0	3	0	0	0	5	0	0	0	0	0	18	0	18
	Geotechnical	9	1	1	2	0	2	5	0	0	0	0	0	15	5	20
	Structural Engg	10	0	1	2	1	0	5	0	0	0	0	0	17	2	19
	TOTAL	43	6	11	4	1	3	24	2	0	0	0	0	79	15	94
	Thermal	9	0	3	0	0	0	6	0	0	0	0	0	18	0	18
Mechanical	Design & Manuf.	9	1	3	0	1	0	5	0	0	0	0	0	18	1	19
Engg.	CAD-CAM & Auto.	2	1	1	0	0	1	2	0	0	0	0	0	5	2	7
	MMT	3	1	1	0	0	0	2	0	0	0	0	0	6	1	7
	TOTAL	23	3	8	0	1	1	15	0	0	0	0	0	47	4	51
Electrical	Control & Indu.Auto.	7	2	2	1	0	2	0	0	0	0	0	0	9	5	14
Engg.	Power & Energy Sy.Engg	9	-	2	1	0	1	5	1	0	0	1	0	17	3	20
	TOTAL	16	2	4	2	0	3	5	1	0	0	1	0	26	8	34
Electronics & Communicati	Microelectronics & VLSI D	4	1	1	0	0	0	1	2	0	0	2	0	8	3	11
on Engg.	CSP Engg,	4	1	0	0	0	0	0	0	0	0	0	0	4	1	5
	TOTAL	8	2	1	0	0	0	1	2	0	0	2	0	12	4	16
Computer Science. & Engg.	Computer Sc. & Engg	6	3	3	0	1	0	1	0	0	0	2	1	13	4	17
	TOTAL	6	3	3	0	1	0	1	0	0	0	2	1	13	4	17
Electronics & Instrumentati on Engg.	Instrumentation Engg.	4	1	0	1	0	1	2	0	0	0	0	1	6	4	10
	TOTAL	4	1	0	1	0	1	2	0	0	0	0	1	6	4	10
	GRAND TOTAL	100	17	27	7	3	8	48	5	0	0	5	2	183	39	222

(c) Foreign Students Admitted

The following table shows the admission statistics of foreign students for the year 2017-18.

SI. No.	Courses (B.Tech)	Admitted
1.	Civil Engineering	2
2.	Mechanical Engineering	-
3.	Electrical Engineering	-
4.	Electronics & Communication Engg.	
5.	Computer Sc. & Engg.	4
6.	Electronics & Instrumentation Engg.	-
	Total	6

(d) Course-Wise Admission statistics (B.Tech-1st Year)-2017-18

SI.No.	Courses	Intake Capacity	Admitted	Remarks
1.	Civil Engineering	120	119	. The excess intake
2.	Mechanical Engineering	120	117	(over & above the
3.	Electrical Engineering	120	118	intake capacity)
4.	Electronics & Communication Engg.	120	119	was carried out as
5.	Computer Sc. & Engineering	92	95	distribution foreign
6.	Electronics & Instrumentation Engg.	60	59	students.
	Total	632	627	

(e) M.Tech. M.SC & MBA Intake & Admission

The following table shows course admission statistics of PG programmes (M.Tech. M.Sc. & MBA) for the year 2017-18.

Deptt.	Sanctioned strength	M.Tech. & M. Sc. Specialization	No. of PG stu	dents
	including approved category (R-20+S-5)*		M.Tech/M.Sc. /MBA	Total
	20+5	M.Tech. in Water Resource Engg.	19	19
	20+5	M. Tech. in Structural Dynamics & Earthquake Engg.	18	18
CE	20+5	M.Tech in Transportation Engg.	18	18
	20+5	M.Tech. in Geotechnical Engg.	20	20
	20+5	M.Tech in Structural Engg.	19	19
	20+5	M.Tech. in Thermal Engg.	18	18
ME	20+5	M.Tech. in Design & Manufacturing	19	19
IVIE	10+2	M.Tech in CAD-CAM Automation	7	7
	10+2	M.Tech in Material & Manufacturing Technology	7	7
EE	20+5	M.Tech. in Power & Energy systems Engg.	20	20
LL	20+5	Control & Industrial Automation	14	14
ECE	10+2	M.Tech. in Microelectronics & VLSI Design	11	11
LUL	10+2	M.Tech in Communication & Signal Processing Engg.	5	5
CSE	20+5	M.Tech. in Computer Science & Engg.	17	17
E&I	10+2	Instrumentation Engg.	10	10
PHY	20+5	M.Sc. in Applied Physics	6	6
CHEM	20+5	M.Sc. in Applied Chemistry	9	9
MATH	20+5	M.Sc. in Mathematics	6	6
MS(MBA)	60	MBA	34	34
Grand Tota	al (M.Tech. + M.Sc. + M	BA) =	277	277

^{*(}Regular & Sponsored)

The following is a summary of the total number of PG students on the roll of NIT Silchar during 2017-18

Courses	CE	ME	EE	ECE	CSE	E&I	PHY	CHY	MATHS	HSS	MBA	TOTAL
M.Tech	170	93	62	29	28	18						400
M.SC							15	19	16			50
MBA											78	78
	•	•		•				•	•		Total	528

CE= Civil Engineering, ME= Mechanical Engineering, EE= Electrical Engineering, MS=Management Studies. ECE= Electronics & Communication Engineering, CSE= Computer Science & Engineering, E&I= Electronics & Instrumentation Engg. PHY= Physics, CHEM= Chemistry, MATH= Mathematics. MBA= Master of Business Administration.

Students Strength

The following table shows the total student strength on the roll (course wise) of the year 2017-18 at NIT Silchar.

	Courses	Branches	Total students strength (course-wise)
UG	(B.Tech.)	Civil Engineering	447
		Mechanical Engineering	466
		Electrical Engineering	440
		Electronics & Communication Engg.	455
		Computer Science& Engineering	382
		Electronics & Instrumentation Engg.	210
PG	M.Tech	Postgraduate Course	400
		(all engineering department)	
	M.Sc.	Applied Chemistry/Applied	50
		Physics/Mathematics	
	Management studies	MBA	78
	GF	2928	

Awards

a. The Institute offered the following awards during the period under consideration:

(A)	Institute Gold Medal									
SI.No.	Title of the Medal	Department	Awardees							
1.	Best B.Tech. Graduate	Amit Kumar Das								
(B)	Institute Silver Medals	Institute Silver Medals								
SI.No.	Title of the Medal		Awardees							
1.	Best B.Tech. Graduate in Mecha	Navneet Goswami								
2.	Best B.Tech. Graduate in Electro	onics& Communication	Lalit Manam							
	Engineering									
3.	Best B.Tech. Graduate in Comp	Shruti Datta Gupta								
4.	Best B.Tech. Graduate in Civil E	Deepjyoti Nath								
5	Best B.Tech. Graduate in Electronics and Instrumentation Engg. Anjishnu Bhattacharjee									

b. Sponsored awards -

(C)	Kalikrishna Mrinalini Krori Gold Medal							
SI.No.	Title of the Medal	Department	Awardees					
1.	Best B.Tech. Graduate on overall performance,	Computer Science	Shruti Datta Gupta					
	(Instituted by Dr. K.D Krori, Guwahati)	& Engg.						

(D)	Saswata Purkayastha Memorial Gold Medal							
SI.No.	Title of the Medal	Department	Awardees					
1.	Best B.Tech. Graduate on overall performance,	Mechanical Engg.	Mrinal Shrivastav					
	(Instituted by Shree Niharendu Purkayastha,							
	Silchar)							

EXAMINATION DETAILS

- * Even semester examinations were held in the month of May 2017 (both UG & PG)
- * Odd semester examinations were held in the month of Nov-Dec. 2017 (both UG & PG).

Statistics of the Results

a) End semester examination Held in May 2017

Programme	Branch & Course	No. of Students appeared	Passed & Eligible for Degree	Failed/ Withheld	Percentage passed	Remarks
	Civil Engg. (Water Resources Engg.)	17	17		100%	
	Civil Engg. (Structural Dynamics & Earthquake Engg.)	17	17		100%	
	Civil Engg.(Transportation Engg)	17	17		100%	
	Civil Engg.(Structural Engineering)	19	19		100%	
M.Tech	Civil Engg.(Geotechnical Engg)	20	20		100%	
	Mech. Engg. (Thermal Engg.)	14	14		100%	
	Mech. Engg. (Materials & Manufacturing Technology)	5	5		100%	
	Mech. Engg. (Design & Manufacturing)	14	14		100%	
	Mech. Engg.(CAM-CAM & Automation)	8	8		100%	
	Electrical Engg. (Power & Energy system Engg.)	9	9		100%	
	Electrical Engg. (Control & Industrial Automation Engg)	4	4		100%	
	Electronics & Comm. Engg. (Communication & Signal Process Engineering)	7	7		100%	
	Electronics & Comm. Engg. (Microelectronics & VLSI Design)	11	11		100%	
	Computer Science & Engg	19	18	1	94.74%	
	Instrumentation Engineering	9	9		100%	
M.Sc	Chemistry (Applied Chemistry)	18	18		100%	
	Physics (Applied Physics)	14	14		100%	
	Mathematics	12	12		100%	
MBA	Master of Business Administration(MBA)	49	49		100%	
	Civil Engg.	117	105	12	89.74%	
	Mechanical Engg.	134	122	12	91.04%	
B.Tech.	Electrical Engg.	84	72	12	85.71%	
	Electronics & Comm. Engg.	115	98	17	85.22%	
	Computer Sc. & Engg.	81	69	12	85.19%	
	Electronics & Instrumentation	53	49	4	92.45%	

b) List of candidates qualified for the Degree of Bachelor of Technology after 14th Convocation held in May 2016 and before End semester Examination held in May 2017

Branch	Appeared	Passed
Civil Engg (B.Tech)	8	8
Mechanical Engineering (B.Tech)	11	11
Electrical Engineering (B.Tech)	5	5
Electronics & Communication Engg. (B.Tech)	6	6
Computer Science & Engg. (B.Tech)	5	5
Electronics & Instrumentation Engg (B.Tech)	-	-
Mech. Engg. (Thermal Engg.)	1	1
Computer Science & Engg	1	1

Placement Statistics

SI.	Name of Organization	Date of visit	CTC Offered	CE	ME	EE	ECE	CSE	EI	MBA	M.Tech	Total	Remarks
1.		18-19 Jul 17	8.7 LPA										
	Yodlee	Pool camp Agart		-	•	-	1	2	-	1	-	2	
2.	John Deere	24-25 Jul 17	6.1 LPA	-	1	-	-	3	-	-	-	4	
3.	Philips India Ltd	27-29 Jul 17	6.5 LPA	-	-	-	-	8	-	-	-	8	
	Wells Fargo	7-9 Aug 17	8 LPA	-	1	-	5	8	-	,	-	13	
5.	Bajaj Auto Ltd.	9 Aug 17	8 LPA	_	1		-	_	_			1	
-	.,.,	Pool campu											
6.	Oracle GBU	10 Aug 17 Pool camp Agart		-	-	-	3	2	-	-	-	5	
	Johnson Controls	12-14 Aug 17	4.7 LPA	-	-	2	2	-	1	ı	-	5	
8.	Ashok Leyland	1-18 Aug 18 Pool camp	4 LPA us at AEC	-	5		-	-	-	-	-	5	
	CGI Information SYS & Mgmt. Consultants	22-24 Aug 17	7.12 LPA	-	-	-	2	14	-	-	-	16	
10.	Pharmaceuticals	28-30 Aug 17	5.5 LPA	-	RA	RA	-	-	RA	-			Result awaiting
11.	Wipro Ltd	29-01 Sep 17	5 LPA	-	4	4	20	7	5	-	CSE-1	40+1	
12.	Goldman Sachs	1-3 Sep 17	22 LPA	-	-	-	0	2	0	-	-	2	
	L&T, ECC Chennai	3-5 Sep 17	UG-5.11 LPA PG-5.38 LPA	12	5	5	-	-	-	-	Struc-1 Struc Dy-1	22+2	
14.	ZS Associates	5 Sep 17 Pool at Jadavpu	6.53 LPA	-	2	-	1	-	-	-	-	3	
15.	Accenture	6-9 Sep 17	3.5 LPA	8	11	10	13	5	5	-	-	52	
16.	L&T Heavy Engineering, Mumbai	8-9 Sep 17	4.87 LPA	-	-	1	1	-	1	-	-	3	
17.	Mphasis, Mysore Road, Bangalore	13-15 Sep 17	4 LPA	-	-	1	3	3	2	-	-	9	
18.	MU Sigma	15-16	21 Lakhs(over 3 years)	1	4	3	4	-	5	-	-	17	
19.	Maruti Suzuki	19-20 Sep 17 Pool campus at	6.4 LPA	-	4	-	-	-	-	-	-	4	
20	UNISYS		6.5 LPA										
	Medlife	7-9 Oct 17	11 LPA	-	-	-	-	5	-	-	-	5	
				-	-	-	-	3	-	-	-	3	
	IBM	5-8 Oct 17	3.2 LPA	-	-	12	9	3	5	-	-	29	
	Deloitte, Bangalore		6.2 LPA	1	2	2	2	4	3	-	CSE-1	14+1=15	
24.	First American India	16-18 Oct 17	7 LPA	-	-	-	-	-	-	-	-	0	

SI.	Name of Organization	Date of visit	CTC Offered	CE	ME	EE	ECE	CSE	EI	MBA	M.Tech	Total	Remarks
25.		23-26 Oct 17	3.2 LPA	9	9	9	10	2	3		CSE-3	42+3=4 5	
	Maple Construction	25-27 Oct 17	4 LPA	RA	-	-	,	-	-	-	-		Result awaiting
27.	Virtusa, Chennai	26-28 Oct 17	5 LPA	-	-	-	1	2	-	-	-	3	
28.	OFSS	30 Oct-01 Nov 17	5.17 UG 6.19 PG				7	1	2		CSE-2	10+2=1 2	
29.		31 Oct 17 Pool at Tezp	5 LPA							NAL+ = O		2	
		University	ui	-	-	-	-	-	-	Mktg 2	-	2	
	Concept		4 LPA	-	1	1	-	1	-	-	-	3	
	DENSO International (I) Ltd	7-9 Nov 17	4.24 LPA	1	-	2	2	1	-	-	-	4	
32.	, ,	17-18 Nov 17	4.6	-	-	-	-	-	-	Mktg 3	-	3	
33.	Tata Motors	20-21 Nov 17	6 LPA	-	6	-	-	-	-	-	-	6	
34.	Sify Technologies Ltd. Chennai	21-23 Nov 17	5.5 LPA	-	-		4					4	
35.	HSBC	24-26 Nov 17	7 LPA	-	-	1	-	7	-	-	-	8	
36.	Fiat Automobile	8-10 Dec 17	7 LPA	-	3	-	-	-	-	-	-	3	
37.	Nokia , Bangalore	10-12 Dec 17	7 LPA	-	-		3	-	-	-	-	3	
	Broking Ltd.	11 Jan 18 Pool at Assar University	2.5 LPA m	-		-	·	-		Fin-5	-	5	
	Sankalp Semi-		4 LPA	-	1	-	1	-	-	-	-	1	
40.	BPCL	17-21 Dec 17	17 LPA	6	5	-	-	1	-	-	-	12	
41.		17-19 Jan 18	16 LPA	-	6	4	-	-	-	-	-	10	
		20 Jan 18 On line ir	5.5 LPA	-	-	1	1	-	1	-	-	3	
	Vedanta	22-23 Jan 18	7.95 LPA	-	2	1	-		4	-	-	7	
44.	Samsung R&D	23-25 Jan	8.88 LPA	-	-	-	-	2	-	-	-	2	
45.	KEC	18 23-25 Jan 18	4.75 LPA	1	-	3	-	-	-	-	-	4	
			5.3 LPA	-	-	-	2	3				5	
		4-5 Feb 18	4.5 LPA	-	-	-	2	9	-	-	-	11	
47.		29 Jan-02 Feb 18	4 LPA	-	-	1	6	2	-	-	-	9	
48.	ITC Ltd.	2 Feb 18 Interview at C Office		-	-	-	-	-	-	Mktg-1	-	1	
	Oppo Mobiles Pvt Ltd.		2 LPA nati	-	-	-	-	-	-	Mktg-1		1	

SI.	Name of Organization	Date of visit	CTC Offered	CE	ME	EE	ECE	CSE	EI	MBA	M.Tech	Total	Remarks
50.		8 Feb 18 Pool at Jadav	6.66 LPA our	-	-	-	-	-	-	Mktg-1	-	1	
51.	Pune Institute of Business Management	University 13-14 Feb 18	4 LPA	-	-	-	-	-	-	HR-4 Mktg-2 Fin-2	-	8	
	Marico, Mumbai		5.5 LPA	-	-	-	-	-	-	Mktg-1	-	1	
	WSP Group, Noida	24 Feb 18 Interview at No Bangalore	4.56 ida &	-	-	-	-	-	-	-	WR-1 TPT-1	2	
54.	HDFC	26 Feb 18	3 LPA	-	-	-	-	-	-	Mktg-3 Fin-3	-	6	
55.	Mahindra	28 Feb 18	6 LPA	-	2	-	-	-	-	-	-	2	
56.	Cognizant Technology Solution, Kolkata	10-11 Mar 18	6.8 LPA	-	-	1	4	-	1	-	-	6	
57.	AMDOCS	17-18 Mar 19 Pool can Agar		-	-	-	1	-	-	-	-	1	
58.	Affinity Classes	Mar 2018 Interview at	6 LPA Guwahati	-	-	-	1	-	-	-	-	1	
59.	Sig Tuple Tech. Pvt. Ltd.	Mar 2018	10 LPA	-	-	-	-	1	-	-	-	1	
60.	Ittiam Systems, Bangalore	23-24 Mar 18	9.35 LPA UG 10.10 LPA PG	-	-	-	-	2	-	-	-	2	
61.	GOIBIBO	27-30 Mar 18	9 LPA	-	-	-	2	8	-	-	-	10	
62.		27 Mar 18 Interview at S	2 LPA ilchar Office	-	-	-	-	-	-	Mktg-2 Fin-4 HR- 1	-	7	
63.	Oil Indian Ltd.	02-04 Apr 18	13 LPA	1	4	2	-	-	-	-	-	7	
	Brahmos Aerospace	4-6 Apr 18	10.7 LPA	-	2	-	1	-	-	-	-	3	
65.	Venera Technologies, Noida	10-12 Ap4 18	5.7 LPA	-	-	-	-	1	-	-	-	1	
		11-12 Apr 18	4 LPA	-	1	-	-	-	-	-	-	1	
67.	Nidhi Creative Infrastructure Pvt Ltd	17 Apr 18	MBA-1.8 B.tech -2.16	2	2	-	-	-	-	HR-1	-	4+1	
	Max Cement, Guwahati	21-23 Apr 18	2.16 LPA	3	-	2	-	-	1	-	-	6	
69.	Valeo India Pvt Ltd	22-24 Apr 18	4.5 LPA	-	-	0	0	0	0	-	-	0	
70.	BEL, Ghaziabad	24-25 Apr 18	10.02 LPA	-	1	-	4		-	-	-	5	
		17-19 May 18	TO.UZ LPA	-	-	-	3	-	-	-	-	3	
	Power System Operation Corpn. Ltd.(POSOCO)	4 May 18 Pool Campus Guwahati	12 LPA s at	-	-	3	-	-	-	-	-	3	
	Eduvert Service Pvt Ltd. (IITian Tutor)		5 LPA	-	1	2		1				4	
73.	Coffee Day Beverages, Bangalore	14-17 May 18	UG3.3 LPA PG-5.1 LPA)	-	-	RA	RA	-	RA	Mktg-2	-	2	Result awaiting

SI.	Name of	Date of visit	СТС	CE	ME	EE	ECE	CSE	EI	MBA	M.Tech	Total	Remarks
	Organization		Offered										
74.	PGCIL	17-18 May 18	12 LPA	1	-	7	-	-	-	-	-	8	
75.	Hevells	15-17 Jun 17	4.8 LPA	1	-	7	-	-	-	-	-	7	
76.	Brahmaputra Cracker & Polymer Ltd, Dibrugarh	20 Jun 18 Interview at G	3 LPA iuwahati	1	,	-	-	2	3	,	,	6	
77.	Tata Project	23 Jul 18	4.5 LPA	1	-	-	-	-	-	-	-	1	
78.	MyKarma	22 Jun 18	9.5 LPA	-	-	1	-	-	1	1	-	1	
79.	Nissan Digital	25 Jun 18	6.25 LPA	-	-	1	-	-		-	-	1	
80.	Bridge and Roof	27 Jun 18	3.36 LPA	6	1	-	-	-	-	-	-	7	
81.	Infovity	28 Jun 18	5 LPA	-	-	-	1	-	-	-	-	1	
82.	Tata Projects	23 Jul 18	4.5 LPA	1	-	-	-	-	-	-	-	1	
83.	Schulumberger	10 Aug 18	5.5	-	1	-	-	-	-	-	-	1	
84.	EIL	26 Aug 18	14 LPA	-	-	-	-	-	3	-	-	3	
	Bra	anch		CE	ME	EE	ECE	CSE	EI	MBA	М.Тес	Total	Remark
											h.		s
	*Total No	of students	s	110+ 6	127+ 2	104+ 4	116	94+ 4	53	44	179	604+16 (B.Tech.)	
	Total No of e	ligible stude	ents	102	112	74	94	77	37	44	169	496 (B.Tech)	
	Total No. Of Joi	b offers (till	date)	53	86	88	121	114	45	38	11	508	
	Total No. (Of Job Placed	d	43	72	60	79	76	31	36	9	361	
-	Average Job Pl	aced %(B.: 78%)	Tech. –	42.15	64.28	81.08	84.04	98.7	83.78	81.81	5.32		
4	Average Job O	•	Tech.	51.96	76.78	118.91	128.72	148.05	124.32	86.36	6.5		
Δ1/	erage Salary(B	R Toch _ 6	US I DVI	5.68	6.8	5.94	5.36	6.74	5.76	3.25	4.82		
AV	eraye sarary(b	. i cuii. -0 .	oo Li A)	LPA	LPA	LPA	LPA	LPA	LPA	LPA	LPA		
N	Median Salary (B.Tech. 6 .35LPA)			6 LPA	6 LPA	6 LPA	6.25 LPA	6.15 LPA	7 LPA	4.2 LPA	5.19 LPA		
	Highest	t package		B. Ted	:h. –22	LPA	1	И.Тесһ	6.2 LPA		ME	BA -6.66	LPA
	Average	e Package		В.Тес	h. –6.08	B LPA	I	M.Tech	- 4.82 LP	4	MBA	4 – 3.25	LPA

^{*}Total No of students - Bold & Italic indicates foreign students.

Departments

1. Name of the Department:-

Civil Engineering



1.1 Academic Staff:

HEAD: Dr. Upendra Kumar Name of Faculty members:

Professor	Associate Professor	Assistant Professor
Prof. Ashim Kanti Dey	Dr. T. Rahman (under suspension)	Dr. Parthajit Roy
Prof. Satyabrata Choudhury	Dr. P. Rajbongshi (upto 17/9/17)	Mrs. Parbin Sultana
Prof. Parthasarathi Choudhury	Dr. Asit Kumar Das	Dr. Susmita Ghosh
Prof. A. K. Barbhuiya	Dr. Upendra Kumar	Dr. Debjit Bhowmik
Prof. Mokaddes Ali Ahmed		Dr. Nitesh A.
Prof. A. I. Laskar		Mrs. Nirmali Borthakur
Prof. D. Chakrabarty		Dr. Arjun Sil
		Dr. Dillip Kumar Ghose
		Dr. Lakshmi Vara Prasad. M
		Dr. Briti Sundar Sil
		Dr. Monowar Hussain
		Dr. Khwairakpam Lakshman
		Singh
		Dr. Prashanth J.
		Dr. Nirmalendu Debnath
		Dr. Bijan Kumar Roy
		Mr. Pallab Das

Visiting Professor (If any): NIL

1.2 Distinction Achieved

a) By Student: NIL

b) By Faculty Member:

1. **Dr. Nitesh A.** was felicitated with **Young Faculty Award** for Contribution in Earthquake Engineering by Venus International.

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) Conducted by Faculty Member

SI. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	Dr. Debjit Bhowmik	National conference on Recent Advancement of Geotechnical Investigations and Ground Improvement Techniques (RAGIGIT 2017)		14 th – 15 th May, 2017
2	Dr. Dillip K Ghose	Recent advances on water and environment studies	TEQIP-III	1 week
3	Dr. Nitesh A., Dr. MLV Prasad	Rapid Visual Screening of Built - up Facilities at Silchar	National Institute of Disaster Management, New Delhi and TEQIP III, NIT Silchar	3 days
4	Dr. Monowar Hussain	National Conference on Recent Advancement in Geotechnical Investigation and Groud Improvement Technique (RAGIGIT 2017)		14 th - 15 th May, 2017
5	Dr. Monowar Hussain	Resource person in "One day National Seminar on GEOTECHNICAL PROBLEMS IN SOUTHERN ASSAM: CAUSES AND REMEDIES	Silchar Local Centre, Institution of Engineers (I) and Silchar Chapter of Indian Geotechnical Society	9 th Sept, 2017.
6	Prof. Upendra Kumar and Dr. Prashanth J.	National Conference on Recent Advances in Environmental Science and Engineering (RAESE – 2018)	TEQIP-III	01 day
7	Parthajit Roy	Training on River Flow Processes Modelling	TEQIP-III	9 th – 13 th Oct, 2017
8	Parthajit Roy	National Conference on "River Flow Processes Modeling"	TEQIP-III	11 th Nov, 2017

b) Participated by Faculty Member

SI. No.	Name of Faculty	Details of the Program	Organizing Institute
1.	Dr. Nitesh A.	GIAN on "Structural Health Monitoring by Full Field Measurement"	NIT Hamirpur
2.	Dr. Nitesh A.	GIAN Course on "Advances in Reliability Engineering"	NIT Jalandhar
3.	Dr. Nitesh A.	GIAN Course on "Plasticity and Constitutive Modeling of Soil and Finite Element Application"	IIT Delhi
4.	Dr. Kh. Lakshman Singh	Two Days "Train the Trainer" National Workshop on Massive Open Online Courses (MOOCs), held on 26-27 August, 2017	NIT Silchar and Thapar University (Patiala)
5.	Dr. Kh. Lakshman Singh	AICTE approved Faculty Development Programme on "Foundation Program in ICT for	IIT Bombay

		Education". 3 rd August to 7 th September, 2017	
6.	Dr. Kh. Lakshman Singh	One Week Short term Training Program on "Recent Advances on Water and Environment Studies" held during 13 th to 17 th February, 2018	NIT Silchar
7.	Dr. Monowar Hussain	Indian Geotechnical Conference, IGC 2017	IIT Guwahati
8.	Parbin Sultana	IGC 2017, Annual conference of Indian Geotechnical Society	IIT Guwahati
9.	Dr. Susmita Ghosh	Recent advancements on Water and Enviornment studies sponsored by TEQIP-III 13/02/2018 to 17/02/2018	National Institute of Technmology, Silchar
10.	Prof. U. Kumar	One week STTP on "Recent Advances on Water and Environment Studies" 13-17 February 2018, TEQIP III	NIT Silchar.

1.4 Research Development

Ph.D. Programme (Specializations): NIL a)

Ph.D. Produced/Ongoing (in number): b)

Completed	Submitted	Ongoing
7	0	44

c) Research Lab/ Workshop:

SI. No.	Name of Lab/Workshop	Purpose/Linkage to an existing/new programme
1	Computational Geomechanics	Research in the field of Geomechanics, which is linked to PG and Ph.D. program in Geotechnical Engineering
2	Earthquake Engineering Lab	M.Tech. in Structural Dynamics and Earthquake Engineering
3	Geotechnical lab	Developed Geotechnical lab

Ongoing/Completed Sponsored Research Project: d)

SI. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1	"Condition Assessment & Reliability of Existing Bridges (Indian Railway & others) in North East India due to earthquake and deterioration hazards".	•	DST-SERB	19 lacs	03 years
2	"Development of Site Specific Design Response Spectrum [DRS] for the city of Silchar, Assam, India"	Dr. Arjun Sil	STIS	2.8 lacs	02 years
3	Effect of variations in input-excitation on the performance of limited-sensors based operational modal analysis		DST-SERB	31.67	03 years

e) Research Paper Reviewed

SI. No.	Faculty Name	Journal Name	No. of Paper	Year
1	Dr. A. I. Laskar	ACI Structural Journal	1	2018
2	Dr. A. I. Laskar	Construction And Building Material	1	2018
3	Dr. A. I. Laskar	Arabian Journal for Science and Engineering	1	2017
4	Dr. Arjun Sil	Journal of Earthquake Engineering(Taylor &Francis)	1	2017-2018
5	Dr. Debjit Bhowmik	Geotechnical and Geological Engineering	1	2017
6	Dr. Dillip K Ghose	KSCE journal of Civil Engineering	6	2017-18
7	Dr. Dillip K Ghose	International journal of Hydrology science and Technology	1	2017-18
8	Dr. Dillip K. Ghose	Journal of Science and Technology(Pertanika)	1	2017-18
9	Dr. M. Hussain	Construction and Building Materials(Elsevier)	1	2018
10	Dr. U. Kumar	Carbohydrate Polymers (Elsevier)	2	1997
11	Dr. Prashanth J	Journal of The Institution of Engineers (India): Series A	1	2018
12	Dr. Prashanth J	International Journal of Earth Science and Engineering	2	2018
13	Dr. S Choudhury	Journal of IEI (I) series A	1	2018
14	Dr.L.V.Prasad .M	International Journal of Civil Engineering	02	2017-18
15	Dr. N. Debnath	Journal of Vibration and Control	1	2018
16	Dr. N. Debnath	Engineering Structures	4	2017
17	Dr. N. Debnath	Journal of The Institution of Engineers (India): Series A	1	2017

f) Chairing of Technical Section

SI. No.	Faculty Name	Details
1	Dr. Dillip K. Ghose	2nd International Conference onSmart Computing & Informatics (SCI-2018)
2.	Dr. M. Hussain	Resource person in "Colloquium on Research in civil engg. During 27 th to 28 th Feb.2017, organized by Deptt. of Civil Engg. , College of Engg. Kidangoor, Kerala."
3.	Dr. M. Hussain	National Conference on Recent Advancement in Geotechnical Investigation and Groud Improvement Technique (RAGIGIT 2017), on 14 th & 15 th May, 2017, Silchar, India, organized by NITS Geotechnical Society, NIT Silchar
4.	Dr. M. Hussain	Resource person in "One day National Seminar on GEOTECHNICAL PROBLEMS IN SOUTHERN ASSAM CAUSES AND REMEDIES, Organised by Silchar Local Centre, Institution of Engineers (I) and Silchar Chapter Indian Geotechnical Society on 9 th September 2017.

1.5 PUBLICATION

a) International Journal(s):

 R A Mozumder, A I Laskar, M Hussain. Empirical Approach For Strength Prediction of Geopolymer Stabilized Clayey Soil Using Support Vector Machines, Construction and Building Materials, Elsevier, 132 (2017), 412-424.

- 2. R A Mozumder, Biswajit Roy, A I Laskar. Support Vector Regression Approach to Predict the Strength of FRP Confined Concrete. Arabian Journal for Science and Engineering, Springer, 42:1129-1146 (2017).
- Biswajit Roy, Al Laskar. Cyclic behavior of in-situ exterior beam-column subassemblies with cold joint in column. Engineering Structures, Elsevier, 132 (2017), 822-833.
- 4. B Singhi, A I Laskar, M A Ahmed. Mechanical Behavior and Sulfate Resistance of Alkali Activated Stabilised Clay, Geotech Geol Engineering, Springer, 35 (2017): 1907-1920.
- 5. Biswajit Roy, Al Laskar. Beam-column subassemblies with construction joint in columns above and below the beam, Magazine of Concrete Research, http://dx.doi.org/10.1680/jmacr.17.00155
- 6. Roy Biswajit, Al Laskar. Cyclic performance of Beam-column subassemblies with construction joint in columns retrofitted with GFRP, Structures, Elsevier, 14 (2018) 290-300.
- 7. Amit Zarola and Arjun Sil (2017). "Artificial Neural Networks (ANN) and Stochastic techniques to estimate earthquake occurrences in Northeast region of India" Annals of Geophysics, INGV. Vol.60 (4), IF-1.374
- 8. Longbir Singnar, and Arjun Sil (2017). "Assessment of soil liquefaction potential of Guwahati city based on standard penetration test data." Disaster Advances (SciE), Vol.10(12),pp-10-21)
- 9. Arjun Sil and Jyotirmoy Haloi (2017). "Empirical Correlations with Standard Penetration Test (SPT)-N for Estimating Shear Wave Velocity Applicable to any Region." International Journal of Geosynthetics and Ground Engineering (Springer Publication, doi.org/10.1007/s40891-017-0099-1)
- 10. Amit Zarola and Arjun Sil (2017)"Quantification of recent seismicity and a back propagation Neural Network for forecasting of earthquake magnitude in Northeast Region of India"Disaster Advances (SciE), Vol.10.(6)/2017.pp-17-34.
- 11. Arjun Sil (2017). "Spatial analysis of IISc campus using remote sensing data and image processing (GIS) technique" Disaster Advances (SciE). Vol.10.(4)/2017.pp-52-59
- 12. Bijan Kumar Roy (2017), Optimum Performance of Bridge Isolation System under Parameter Uncertainty, International Journal of Geotechnical Earthquake Engineering, Volume No. 8, Issue No 2, IGI Global, DOI: 10.4018/IJGEE.2017070105.
- 13. U Das, P J Roy, D K Ghose. (2017) Modeling Water Table Depth using Adaptive Neuro-Fuzzy Inference System, Modeling Water Table Depth using Adaptive Neuro-Fuzzy Inference System, Taylor & Francis, DOI: 10.1080/09715010.2017.1420497.
- 14. D K Ghose. (2017) Sediment yield prediction using neural networks at a watershed in south east India, ISH Journal of Hydraulic Engineering, Taylor & Francis, DOI: 10.1080/09715010.2017.1408432.
- 15. Ruhul Amin Mozumder, Aminul Islam Laskar, Monowar Hussain (2017) "Empirical approach for strength prediction of geopolymer stabilized clayey soil using support vector machines" Construction and Building Materials 132, 412-424.
- 16. Ruhul Amin Mozumder, Aminul Islam Laskar and Monowar Hussain (2018) "Penetrability prediction of microfine cement grout in granular soil using Artificial Intelligence techniques", Tunnelling and Underground Space Technology, 72, 131–144.
- 17. Laskar, N., and Kumar, U., "SEM, FTIR and EDAX Studies for the Removal of Safranin Dye from Water Bodies using Modified Biomaterial - Bambusa Tulda." IOP Conf. Series: Materials Science and Engineering 225 (2017) 012105. doi:10.1088/1757-899X/225/1/012105. IOPscience - Journal. Indexed by Scopus, ISSN: 1757-8981
- 18. Dey, A.K., Kumar, U., (2017). Adsorption of Reactive red 195 from polluted water upon Na2CO3 Modified International Journal of Engineering and Technology. 9(3S) 53-58. DOI: 10.21817/ijet/2017/v9i3/170903S011. Scopus Journal

- 19. Dey, A.K., and Kumar, U., "Adsorption of anionic azo dye Congo Red from aqueous solution onto NaOH-modified jute fibre", Desalination and Water Treatment, 92 (2017) 301–308 (Taylor & Francis), Indexed by Scopus, SCIE. doi: 10.5004/dwt.2017.21484.
- 20. Pallab Das, P. and S. Choudhury, 2018, "Experimental Study on Fibre-Reinforced Concrete Beam-Column Joint with Ductile Detailing Under Reverse Cyclic Loading", International Journal of Engineering & Technology, v.7 special issue, pp. 85-89.
- 21. Umesh Das, Parthajit Roy & DillipGhose, "Modeling Water Table Depth using Adaptive Neuro-Fuzzy Inference System", ISH Journal of Hydraulic Engineering (Scopus), Accepted, Dec 12, 2017, https://doi.org/10.1080/09715010.2017.1420497.
- 22. Joseph Tripura & Parthajit Roy, "Flow Forecasting in Multiple Sections of a River System", KSCE Journal of Civil Engineering (SCI), DOI: 10.1007/s12205-017-1514-9, Vol. 21 (2), 2016, pp 512-522.

b) National Journal(s):

- 1. Arjun Sil and Thaihamdau Longmailai (2017). "Drift Reliability Assessment of a Four Storey Residential Building under Seismic Loading Considering Multiple Factors." Journal of the Institution of Engineers (India): Series A. (Springer Publication, doi.org/10.1007/s40030-017-0216-0)
- Sultana P. and Dey A. K. (2018), "Estimation of Ultimate Bearing Capacity of Footings on Soft Clay from Plate Load Test Data Considering Variability", Indian Geotechnical Journal, DOI: 10.1007/s40098-018-0311-9
- 3. Prashanth Janardhan, Subba Rao and Kiran G. Shirlal, (2018), "Reshaping berm breakwaters: A physical model study", Indian Journal of Geo-Marine Sciences, Vol. 47 (05), May 2018, 1050-1057.

c) International Conference(s):

- Shulanki Pal, Bijan Kumar Roy, Satyabrata Choudhury, Mitigation of Structural Vibration Response using Tuned Liquid Damper under Random Earthquake, Advances in Construction Materials and Structures (ACMS 2018), IIT Roorkee, 7-8 March 2018.
- 2) Saha, H.S. and Bhowmik, D. (2018), "Effect of glass fibre on shear strength of soil", Proceedings of the 8th International Conference on Key Engineering Materials (ICKEM 2018), Vol.: 775, pp. 603-609, March 16-18, 2018, Osaka, Japan.
- 3) D K Ghose, S samantaray, S samantaray, A Rath. (2017) Removal of turbidity using Dual media filter, ASCE India conf, IIT Delhi, 2017, IIT Delhi. (ASCE-SCOPUS)
- 4) D K Ghose, S samantaray, MAgasti, J Munda, P C Swain. (2017) Stabilization of black cotton soil using ground granulated blast furnace slag, ASCE India conf, IIT Delhi, 2017, IIT Delhi. (ASCE-SCOPUS)
- 5) D K Ghose. (2017) Modeling runoff using Feed forward-back propagation and Layer recurrent neural networks, ICDECT-2017, Symbiosis Institute of Technology, India, 2017, Symbiosis Institute of Technology, Pune, India. (Springer link-SCOPUS).
- 6) D K Ghose, S samantaray. (2017) Modelling sediment concentration using back propagation neural network and regression coupled with genetic algorithm, ICSCC-2017, NIT Kurukshetra, 2017, NIT Kurukshetra. (Proceedia computer science-Elesvier-SCOPUS)
- 7) D K Ghose. (2017) Measuring discharge using Back propagation neural network: a case study on Brahmani river basin. FICTA-2017, KIIT, 2017, KIIT BBSR. (Springer link-SCOPUS)
- 8) D K Ghose. (2017) Prediction of suspended sediment load using Radial basis neural network, FICTA-2017, KIIT, 2017, KIIT BBSR. (Springer link-SCOPUS)
- 9) Singh, V., Nitesh, A., "Model Updating of a Real RC Building using Vibration Data from Smartphone", 16th Symposium on Earthquake Engineering, Roorkee, India, Dec 2018

- 10) Maurya, K. K., Nitesh, A., "Evaluation od Procedure for Blast Resistant Design of Structures", International conference by School of Civil Engineering VIT University Vellore and ASCE Indian Section, 2017
- 11) Ayan Dutta, Kh. Lakshman Singh, "Fatigue Life Prediction Models in Asphalt Materials", International Conference on Innovations and Research in Sciences, Technology, Commerce, Business Management, Social Science and Humanities for Sustainable Development, Sukh Chandra Mishra Industrial training Institute, Paktola, Darbhanga Bihar, 24-25 March, 2018
- 12) Bhattacharya, A.; Ghosh, S. and Mukherjee, K." Multi-decadal Mass Budget and Area Change of Some Eastern Himalayan Glaciers (Nepal-Sikkim) Using Remote Sensing Techniques". RAIT 2018: IEEE international conference. ISM Dhanbad, March 15-17, 2018.
- 13) Ghosh, S. Gupta, S and Ghosh, S." Modelling of Groundwater Development Using Arc-SWAT and MODFLOW" Sustainable Technologies for Intelligent Water management (STIWM) 2018, International Conference, IIT Roorkee, February 16-19, 2018.
- 14) Pallab Das, Effect of Infill and Configurations of Shear Wall in RC Frame Buildings, 7th ICEAS 2017 International Conference (organized by SEAS- International), Toronto, ON, Canada on 27 and 28 June,
- 15) Prashanth Janardhan, Harish Narayan and Sukomal Mandal, (2017), "Prediction of Tides off Mithividi, Gujarat - West Coast of India", Proceedings of the 37th IAHR World Congress, August 13 - 18, 2017, Kuala Lumpur, Malaysia, 5366-5372.
- 16) Prashanth Janardhan, Jupiter Rajkumar, Harish N., M L V Prasad, (2017), "Hydrological Modelling and GIS for Early Flood Warning System", Conference Abstract on International Conference on Geo-Spatial Technologies for Natural Resource Management and Climate Change, December 21 - 22, 2017, Hyderabad, Telengana, India, 51.
- 17) Lakshman Singh Bisht, Mokaddes Ali Ahmed, "Paratransit System Characteristics in Mid-size City Silchar, India", Urbanization Challenges in Emerging Economics, ASCE India Conference 2017, 12-14 December, IIT Delhi, Book of Abstract: 0078 0116 000217.
- 18) Mokaddes Ali Ahmed, Khandakar Minhajul Islam, "Evaluation of Pedestrain level of Service in Presence of Street Vendor: Kolkata", Urbanization Challenges in Emerging Economics, ASCE India Conference 2017, 12-14 December, IIT Delhi, Book of Abstract: 0078_0116_000378.
- 19) Ranadip Mandal, Mokaddes Ali Ahmed, "Assessment of Qualitative Level-of-Service for Pedestrains: Silchar, Assam", Urbanization Challenges in Emerging Economics, ASCE India Conference 2017, 12-14 December, IIT Delhi, Book of Abstract: 0078_0116_000434.
- 20) M.L.V.Prasad et.al, "Fibres Self Compacting Concrete Strength Prediction Using ANFIS Analytical Model" Fourth International Conference on Computational Science and Technology (ICCST2017), held on 29th -30th November 2017 at Kuala Lumpur, Malaysia.
- 21) M.L.V.Prasad et.al, "A Review on The Application of Remote Sensing & GIS Technologies for Disasters Management", International Conference on Geo-Spatial Technology for Natural Resource Management & Climate Change, 21 - 22 December 2017, to be held at NIRD&PR, Rajendranagar, Hyderabad.
- 22) M.L.V.Prasad et.al, A Review on Mechanical Properties of Magnesium Based Nano Composites, International Conference on Electrical, Electronics, Materials and Applied Science, 22-23 Dec 2017, Secundrabad, Telangana, India, IΡ Conf. 1952, 020069-1-020069-8; https://doi.org/10.1063/1.5032031.
- 23) M.L.V.Prasad et.al, Strength Study of Pavement with Self Compacting Concrete, 6th International Conference on Contemporary Engineering and Technology 2018 (ICCET), Prince Shri Venkateshwara Padmavathy Engineering College, Ponmar, Chennai, 10th -11th March 2018.

d) National Conference(s):

- Das, S., and Bhowmik, D. (2017) "Small Strain Dynamic Behavior of Sand and Sand-Crumb Rubber Mixture in Dry Condition" Proceedings of Indian Geotechnical Conference 2017 GeoNEst14-16 December 2017, IIT Guwahati, India.
- Sarkar, R. and Bhowmik, D. (2017) "Effect of Polypropylene Fiber Reinforcement on Cement Stabilization of Local Red soil in Silchar Area" Proceedings of Indian Geotechnical Conference 2017 GeoNEst14-16 December 2017, IIT Guwahati, India.
- 3) Das, S., and Bhowmik, D. (2017) "Study of Small Strain Dynamic Behavior of Crumb Rubber Mixed with Sand using Resonant Column Apparatus" Proceedings of National Conference on Recent Advancement in Geotechnical Investigation and Ground Improvement Technique, 14th & 15th May 2017, NIT Silchar, India.
- 4) Das, S., and Bhowmik, D. (2017) "Effect of Saturation on Dynamic Properties of Barak River Sand at Small Strain Condition" Proceedings of National Conference on Recent Advancement in Geotechnical Investigation and Ground Improvement Technique, 14th & 15th May 2017, NIT Silchar, India.
- 5) Sarkar, A. and Bhowmik, D. (2017) "Site Soil Classification ApplyingSeismic Refraction Tomography" Proceedings of National Conference on Recent Advancement in Geotechnical Investigation and Ground Improvement Technique, 14th & 15th May 2017, NIT Silchar, India.
- 6) Sarkar, R. and Bhowmik, D. (2017) "Effect of Jute Reinforcement OnCement Stabilization of Local Red Soil in Silchar Area" Proceedings of National Conference on Recent Advancement in Geotechnical Investigation and Ground Improvement Technique, 14th & 15th May 2017, NIT Silchar, India.
- 7) Kh. Lakshman Singh, Tathagatha Khan, Prasenjit Das, "Laboratory Investigation on Strength Characteristics of Asphalt Concrete Mixture Containing Fibres", National Conference on Roads and Transport (NCORT- 2017), IIT Roorkee, 14-15 October, 2017
- 8) Ramu B, Paul. A and Monowar Hussain (2017) "Experimental Model Study: Improvement of Peat Soil by Construction of Floating Peat-Cement Columns through Application of Deep Mixing Method" Proceeding of the Indian Geotechnical Conference, 14-16 Dec, IIT Guwahati.
- Sumit Bisht, Subhradeep Dhar and Monowar Hussain (2017) "Performance Evaluation of Lime Stabilized Sub-Grade Soil Using Light Weight Deflectometer" Proceeding of the Indian Geotechnical Conference, 14-16 Dec, IIT Guwahati.
- 10) Subhradeep Dhar Arindam Sarkarand Monowar Hussain (2017) "Influence of fiber on strength characteristics of clayey soil" Proceeding of the Indian Geotechnical Conference, 14-16 Dec, IIT Guwahati.
- 11) B Ramuand Monowar Hussain (2017) "Effect of ion migration from peat-cement columns" proceding on National conference on recent advancement in geotechnical investigation and groud improvement technique 14th & 15th may, 2017, , NIT Silchar, India
- 12) Seal P. R., Sultana P. and Dey A. K., "Deterministic Seismic Hazard Analysis of Mawphu Dam Site", Indian Geotechnical Conference, IGC 2017, IIT Guwahati, 14-16 December, 2017
- 13) Nath, A. and Ghosh, S; Dam break analysis using HEC-RAS- a case study of AJI I dam,Rajkot, SPACE 2017,1st September'2017. (SCOPUS Indexed conference)
- 14) M.L.V.Prasad et.al, "Artificial Neural Network for Strength Prediction of Fibres Self Compacting Concret", Advances in Intelligent Systems and Computing, Soft Computing for Problem Solving, SocProS 2017, Volume 1, (Accepted).

e) Book/Chapter:

Accepted: 4

S.NO.	TITLE	AUTHOR
1	"Model Assisted planning of groundwater Development" by Kashyap, D and Ghosh,S , Chapter-16 of ASCE book on 'Sustainable water Resources' online published on Oct'2017, ISBN:9780784480908.	Dr. Susmita Ghosh
2	D K Ghose, S samantaray. (2018) Integrated Sensor networking for estimating ground water potential in scanty rainfall region: challenges and evaluation, Computational Intelligence in Sensor Networks, Springer. 776, 335-352.	Dr. D.K. Ghose
3	D K Ghose, S samantaray. (2018) Sedimentation process and its assessment through integrated sensor networks and machine learning process, Computational Intelligence in Sensor Networks, Springer, 776, 473-488.	Dr. D.K. Ghose
4	S Samantaray, D K Ghose. (2018) Assessment of suspended sediment load with Neural Networks in arid watershed, Springer. (Accepted)	Dr. D.K. Ghose

1.6 CONSULTANCY SERVICES

SI. No.	Name of the Scheme	Sponsoring Agency	Amount Earned
1	Proof checking of design and drawing of multilevel car parking near Nandankanan Bhubaneswar	Govt. of Odisha	59,000/
2.	Structural Stability of 13 nos. of Buildings	North Eastern Electric & Power Corporation Ltd.	3,06,800.00
3.	Calibration of Compression Testing Machine	North Eastern Electric & Power Corporation Ltd.	53,100.00
4.	Mix Design of Concrete for IOCL, Moinarbond, Silchar	Indian Oil Corporation Ltd.	66,080.00
5.	Testing of Steel	Shyam Steel Industries Ltd.	23,464.00
6.	Mix Design of Concrete	Central Public Works Department	24,780.00

1.7 MAJOR EQUIPMENT ACQUIRED

- pH Meter
- **Electrical Conductivity Meter**
- Data acquisition system (16-Channel)
- DC-Response MEMS Accelerometers
- Impact Hammer
- Modal Shaker System

1.8 PATENT

SI. No.	Details	Year
1.	Improved Concrete Rheometer (Patent no. 301513)	2018

1.9 VISITS TO ABROAD

SI. No.	Name of the Faculty	Name of the Conference/ Programme	Place	Date
1	Dr. Debjit Bhowmik	ICKEM 2018	Osaka	March 16-18, 2018
2	Pallab Das	7 th International Conference on Engineering and Applied Sciences (ICEAS-2017)	Toronto, Canada	27 - 28 June, 2017
3	Dr. Prashanth J.	Proceedings of the 37th IAHR World Congress	Kuala Lumpur, Malaysia	August 13 – 18, 2017
4	Dr.L.V.Prasad.M	Fourth International Conference on Computational Science and Technology (ICCST2017)	Kuala Lumpur, Malaysia	29th -30th November 2017

1.10 M.Tech. / M.Sc. (Thesis/Project)

SI. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project
1	Arshad Hussain Choudhury	Prof. A.I.Laskar	Rehabilitation of beam column joint with geopolymer
2	Nazir Laskar	Prof. A.I.Laskar	Retrofitting of beam-column joints with GFRP
3	Rohit Kr Gupta	Prof. A.I.Laskar	Behavior of CFST and plain concrete short column under axial load
4	Arnab Jyoti Das	Prof. A.I.Laskar	Dynamic analysis of Tied Arch Bridge
5	Akhil V	Prof. A.I.Laskar	Model updating and damage detection techniques
6	Mr. Amit Zarola	Dr. Arjun Sil	Artificial neural networks (ANN) and stochastic techniques to estimate earthquake occurrences in Northeast region of India
7	Mr. Ashis Bhaguna	Dr. Arjun Sil	SEISMIC HAZARD ANALYSIS OF ASSAM STATE
8	Mr. Jaydeep Das	Dr. Arjun Sil	CONDITION ASSESSMENT OF EXISTING DECK O F BRIDGES IN THE CACHAR DISTRICT
9	Mr. Gaurab Das	Dr. Arjun Sil	CHARACTERISTICS OF FBD AND DDBD TECHNIQUES FOR SMRF BUILDINGS DESIGNED FOR SEISMIC ZONE-V USING SITE SPECIFIC GROUND MOTION IN N.E. INDIAN CONTEST
10	Mr.Masum Das	Dr. Arjun Sil	IMPACT ASSESSMENT OF LOAD AND RESISTANCE CHARACTERISTICS OF STRUCTURES AND COMPARIVE STUDY ON TIME DEPENDENT FAILURE PROBABILITY DURING SERVICE LIFE
11	Mr. Saurab Das	Dr. Arjun Sil (joint)	Non-linear time history analysis of cable suspension bridge

12	Mr.Subodh Kumar	Dr. Arjun Sil (joint)	Analysis of cable stayed bridge with different cable geometric configuration
13	Mr. Sanala Thomas	Dr. Arjun Sil (joint)	Comparative study of the dynamic responses of box girder bridge by varying span and speed of the vehicle
14	Ms. Ido Jerang	Dr. Arjun Sil (joint)	Seismic hazard assessment of Itanagar City
15	TASSO DURI	Dr Bijan Kumar Roy	Optimum Performance of Tuned Liquid Column Dampers in Vibration Control of Structures under Seismic loading
16	AVINASH KUMAR	Dr Bijan Kumar Roy	SEISMIC PERFORMANCE OF RC FRAMED BUILDINGS RESTING ON SLOPING GROUND
17	SHAILENDRA KUMAR PRAJAPATI	Dr Bijan Kumar Roy	OPTIMUM PERFORMANCE OF STRUCTURE USING MULTIPLE TMD UNDER SEISMIC VIBRATION
18	Sukanta Das	Dr. D. Bhowmik	Study of Dynamic Properties of Crumb Rubber Mixed With Sand Using Resonant Column Apparatus
19	Raja Sarkar	Dr. D. Bhowmik	Effect of Fiber Reinforcement on Cement Stabilization of Local Red Soil In Silchar Area
20	Rahul Raj RB	Dr. D. Bhowmik	Numerical Analysis of Seepage Flow Through Earthen Embankment
21	Saravanan P	Dr. D. Bhowmik	The Study of Interface Behavior of Geogrid on Local Soil
22	Vinod Singh	Dr. Nitesh A.	Model Updating of a Real RC Building using Vibration data from Smartphone
23	Sandeep Das	Dr. Nitesh A.	Evaluation of Bridge Soil Interaction using Vibration Data from Smartphone
24	Prasenjit Das	Kh. Lakshman Singh	Effect of fibres in asphalt concrete mixture
25	Manish Jamtia	Kh. Lakshman Singh	Study on soil subgrade properties with reinforced fibres
26	Pinki Deb	Kh. Lakshman Singh	A comparative study of strength characteristics of Cold mix Asphalt Emulsion with different fillers.
27	Dheeraj Desmukh	Kh. Lakshman Singh	Use of waste material in soil subgrade of pavement
28	Masum Yadav	Kh. Lakshman Singh	Proposed traffic route distribution and management in silchar
29	Vishnu T.B	Kh. Lakshman Singh	Performance of bituminous mixes using waste tyres
30	B Ramu	Dr. M. Hussain	Improvement Of Peat Soil By Employing Surface And Deep Mixing Technique: Emphasis On Unconfined Compressive Strength And Soil-Cement Colu
31	Debasish Nayak	Dr. M. Hussain	Evaluation Of Geotechnical Charachteristics Of Municipal Solid Waste And Remediation Techniques Of Contaminated Site, Meherpur Silchar

32	Sumit Bisht	Dr. M. Hussain	Performance Evaluation Of Lime Stabilized Subgrade Soil Using Light Weight Deflectometer
33	Arindam Sarkarand	Dr. M. Hussain	Influence Of Fiber On Strength Characteristics Of Clayey Soil
34	Lakshmi Nandan Gogoi	Pallab Das	Experimental Study onFiber ReinforcedBeam-Column Joint
35	Saheen V. K.	Pallab Das	Study on Hybrid FiberReinforced Beam- Column Joint
36	Pinaki Ranjan Seal	Parbin Sultana	Seismic Hazard Analysis of Mawphu Hydro Electric Project Stage-II in Southern Meghalaya
37	Joshodi Haflongbar	Parbin Sultana	A Study on the Scale Effect of Plate Size on the Result of Plate Load Test Performed on Highly Plastic Calyey Soil
38	Ramji Prasad	Dr. Prashanth J.	Studies on Compressive Strength of Pervious Concrete with and without using LLDPE powder
39	Amit	Dr. Prashanth J.	Experimental and Numerical studies on Bio-retention
40	Sunny Gupta	Dr. Susmita Ghosh	Groundwater Flow modeling and stream-aquifer interaction using Visual MODFLOW
41	Mrinal Kumar Singh	Dr. Susmita Ghosh	Assessment of Groundwater development in plane land of Cachar (Assam)
42	Purnima Kempa	Prof. U. Kumar	Phytoremediation for wastewater treatment using : A case study
43	Violena Basumatari	Prof. U. Kumar and Dr. B. Sil	Development of IDF Curves Considering Climate Change Effect for the Barak River Basin
44	Anupam Ghosh	Prof. S. Choudhury	Correlation between Performance and Damage Index in RC Frame Buildings
45	Ankit Rai	Prof. S. Choudhury	Retrofitting Seismically Deficient RC Frame Buildings
46	Utpal Maity	Prof. S. Choudhury	Performance-Based Seismic Design of Reinforced Concrete Bridge Pers
47	Prateek Narayan Panda	Prof. S. Choudhury	Performance of Steel Frame Buildings with Concentric Bracing
48	Chetan Swaroop	Dr.Parthajit Roy	Discharge over plan view Circular Arc form Weir
49	Debasish Dutta	Dr.Parthajit Roy	Discharge over plan view W-form Weir
50	Abhilash Singh (16-21-207)	Dr.L.V.Prasad.M	Seismic analysis of building with different shapes using different codal provisions
51	Prakhar Mishra (16-21-518)	Dr.L.V.Prasad.M	Eco-friendly SCC strength prediction using ANN

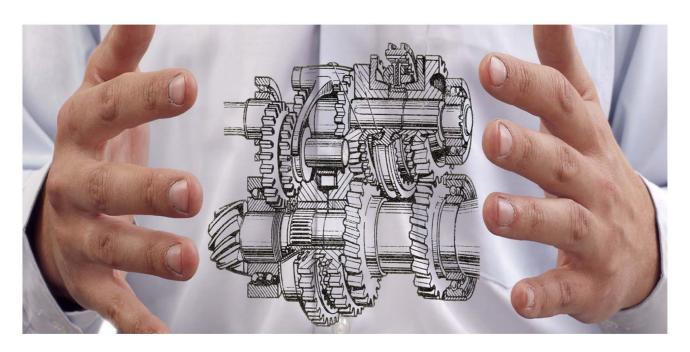
52	Mrigank Das	Dr.L.V.Prasad.M	Optimisation of Location of Shear wall in Tall building
	(16-21-509)		using ETabs Modeling
53	Nilarghya Sarkar (16-21-505)	Dr.L.V.Prasad.M	High performance concrete Strength prediction using ANFIS
54	Sahil Kumar (16-21-317)	Dr.L.V.Prasad.M	Flexural strength studies of concrete Pavements
55	Aneet Kumar	Dr. N. Debnath	Structural performance of railway steel bridge under moving train load
56	Anurag Gupta	Dr. N. Debnath	Studies on seismic performance of open ground storied frame-building
57	Baleshwor Yumnam	Dr. N. Debnath	Seismic vibration control of frame building using tuned mass dampers with H-inf optimization
58	Mridusmita Goswami	Dr. N. Debnath	Studies on passive vibration control of framed building using tuned mass damper system
59	Satabdi Das	Dr. N. Debnath	Vibration control of multi-storied building system using pendulum tuned mass damper (PTMD)
60	Deepmala Das	Dr. N. Debnath	Improving seismic performance of reinforced-concrete framed buildings using passive control devices
61	Moitreyee Ghosh	Dr. N. Debnath	Studies on multi-modal vibration control of the structure using passive control device

1.11 Ph.D. Theses

SI. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis	
1	Ruhul Amin Mazumder	Prof. A. I. Laskar (Main Supervisor)	Prediction of UCS of geopolymer stabilized clay and penetrability of microfine cement grout in granular soil	
2	Biswajit Roy	Prof. A.I.Laskar	Cyclic behavior of RCC exterior beam column subassemblies with construction joint in column	
3	Ruhul Amin Mozumder	Dr. M. Hussain (Co-supervisor)	Prediction of UCS of Geopolymer Stabilized Clay and Penetrability of Cement Grout in Granular Soil	
4	Apurba Nath	Dr. Susmita Ghosh	Studies of Breach parameter uncertainties	
5	Mrinal Singh	Dr. Susmita Ghosh	Groundwater Planning for irrigation at CAchar, Assam	
6	Sayed Sadulla Ahmed	Dr. Susmita Ghosh and Prof. A. K. Barbhuiya		
7	Shyama Debbarma	Dr. Parthajit Roy	A Study on the Effects of Climate Change in Barak River Basin	

1. Name of the Department:-

Mechanical Engineering



1.1 Academic Staff:

HEAD: Prof. K.M. Pandey

Name of Faculty members:

Professor	Associate Professor	Assistant Professor	
Prof. R. Gupta (on lien)	Dr. P.K. Patowari	Dr. A. Biswas	Dr. B. Das
Prof. K.M. Pandey	Mr. D.H. Das	Dr. S. Dey	Dr. S. Pati
Prof. R.D. Misra	Dr. K.K. Sharma	Dr. D. Bhanja	Dr. S. Halder
	Mr. P. Choudhury	Dr. S. Bhowmik	Dr. S.R. Maity
	Dr. K. Chakraborty	Dr. S. Nath	Dr. P. Debroy
		Dr. A.B. Deoghare	Dr. L. Roy
		Dr. P.R. Randive	Dr. Jagadish
		Dr. S. Debbarma	Mr. S.K. Pattanayak

1.2 Distinction Achieved

- a) By Student:
- b) By Faculty Member: Solar Regional Test Center housed in ME Deptt. became the first NABL accreditated laboratory of this Institute w.e.f. 29th May 2017. Contributing faculty members were- Prof. R.D. Misra & Dr. A. Biswas

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

Conducted by Faculty Member a)

SI. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	Dr. B. Das, Dr. A. Biswas, Dr. S. Bhowmik	Regional Seminar on Renewable Energy Technology: Issues and Prospects (RETIP - 2017)	TEQIP – III	25/09/2017

Participated by Faculty Member: NIL b)

1.4 Research Development

Ph.D. Programme (Specializations): a)

- 1. Molecular dynamics under parameter uncertainty
- Stochastic tribological analysis of journal bearing 2.
- 3. Biomaterials and Biosciences
- 4. Composite Materials
- 5. Application of nanoparticles in biodiesel to study performance, emission and combustion characteristics.
- 6. Application of Ocean wave force for the development of new wave energy converter
- 7. Bio-fuel research
- 8. Boiling heat transfer
- Thermal Engineering 9.
- 10. Renewable Energy
- 11. Solar Energy
- 12. Advanced Manufacturing
- 13. Composite Materials
- 14. Smart Adhesives and their joining.
- 15. Hybrid multi scale laminated composites
- 16. **Bio-composites**
- 17. Phase change materials and encapsulation technology
- 18. Surface engineering and functionalization
- 19. Self-healing composite materials
- 20. Energy efficient building materials

b) Ph.D. Produced/Ongoing (in number):

Completed	Submitted	Ongoing
6	4	40

c) Research Lab/ Workshop:

SI. No.	Name of Lab/Workshop	Purpose/Linkage to an existing/new programme
1	Machine Element Laboratory	UG, PG and PhD work -New

d) Ongoing/Completed Sponsored Research Project:

SI. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1	Design and development of a hybrid photo voltaic thermal (PVT) system for rural application	Dr. B. Das & Dr. A. Biswas (Co-PI)	DST	14.46	3 years
2	Development and testing of hybrid solar photovoltaic thermal (PVT) air system for the composite environment of North-East India for tea drying applications	Dr. B. Das & Dr. A. Biswas (Co-PI)	DST	30.30	3 years
3.	Experimental and computational analysis of heat sink application for optimal performance by developing low-cost natural filler reinforced the composite material	Dr. S. Bhowmik Dr. B. Das (Co- PI)	CPRI, under MoP, Govt. of India	Rs. 22.63 Lakh	2017- 2019
4.	Bamboo bricks/laminates from BMFs (Bamboo Micron Fibres) for low cost housing structures for North Eastern Himalayan region	Dr.S Halder	NMHS	49.5	2017- 2020
5.	Synthesis and characterization of smart phase change materials for efficient thermal management of electronic devices	Dr.S Halder	NIT Silchar	4.10	2016- 2018
6.	Oxo—tungsten Based Nanocatalysts in the synthesis of industrially important adipic acid	Dr.S Halder (co- PI)	NIT Silchar	4.75	2016- 2018

e) Research Paper Reviewed

SI. No.	Faculty Name	Journal Name	No. of Paper	Year
1.	Prof. K.M.	Propulsion and Power Research	1	2017
	Pandey	Applied Energy	1	2017
	Solar Energy		1	2017
	Combustion Science and Technology		2	2017
Recent Patents in Mechanical Engo Acta Astronotica		Recent Patents in Mechanical Engg.	1	2017
		Acta Astronotica	2	2017/18
		International Journal for Hydrogen Energy	4	2017/18

1		Sustainable Computing Informatics and System	1	2017
		Applied Thermal Engg.	3	2017
		Journal of the Institution of Engineers Series c	2	2018
		Flow Turbulence and Combustion	1	2017
2.	Dr. A. Biswas	Applied Energy, Elsevier	3	April 2017- Mar 2018
		Energy Conversion and Management. Elsevier	5	April 2017- Mar 2018
		Australian Journal of Mechanical Engineering	1	April 2017- Mar 2018
3.	Dr. S. Bhowmik	■ <u>Kybernetes</u>	1	2018
		■ BioResources	1	2018
		International Journal of Quality and Reliability Management	1	2018
4.	Dr. Sukumar Pati	International Journal of Thermal Sciences, Journal of Thermal Science and Engineering Applications (ASME), European Journal of Mechanics- B/Fluids, Journal of the Institution of Engineers (India): Series C, Journal of Applied Fluid Mechanics, Engineering Science and Technology, an International Journal	08	April 2017- Mar 2018
5.	Dr. Sudip Dey	Thin-walled Structures (Elsevier Publication), Composites Part B: Engineering (Elsevier Publication), Composite Structures (Elsevier Publication)	03	2017-18
6.	Dr. S. Debbarma	Alexandria Engineering Journal, Elsevier	1	2017-18
7.	Dr. S. Nath	International Journal of Heat and Mass transfer	1	2018
		Heat and Mass transfer	2	2017-18
		Sadhana	1	2017
8.	Dr. S. Halder	Carbon	2	2017
		Ultrasonics Sonochemistry	1	2017
		Polymer Composites	1	2018
9.	Dr. S. Halder	International Journal of Heat and Mass transfer	2	2017-18
		Heat and Mass transfer	4	2017-18
		Applied Thermal Energy	1	2017
		Journal of renewable and sustainable energy	2	2017-18
		Energy conversion and management	1	2017

f) **Chairing of Technical Section**

SI. No.	Faculty Name	Details	
1.	Dr. S. Bhowmik	Session Chair 10 TH International Conference on Sustainable Energy and Environmental Protection June 27 th – 30 th , 2017, Bled, Slovenia	
2.	Dr. B. Das	Session Chair 10th International Conference on Sustainable Energy and Environmental Protection June 27TH – 30TH, 2017, Bled, Slovenia	
3.	Dr. Sudip Dey	Chairing Technical session in 3rd International Conference on Mechanical and Aeronautical Engineering (ICMAE 2017) by HKSME on Dec 13-16, 2017 at Dubai, UAE	

1.5 PUBLICATION

a) International Journal(s):

- 1. Maji, A. Bhanja, D., Patowari, P. K. and Kundu, B. (2018) 'Thermal Analysis for Heat Transfer Enhancement in Perforated Pin Fins of Various Shapes with Staggered Arrays', Heat Transfer Engineering, 7632, pp. 1–25, Taylor & Francis, doi: 10.1080/01457632.2018.1429047.
- 2. Das, S. S., Tilekar, S. D., Wangikar, S. S. and Patowari, P. K. (2017) 'Numerical and experimental study of passive fluids mixing in micro-channels of different configurations', Microsystem Technologies, 23(12), pp. 5977–5988, Springer, doi: 10.1007/s00542-017-3482-x.
- 3. Maji, A., Bhanja, D. and Patowari, P. K. (2017) 'Numerical investigation on heat transfer enhancement of heat sink using perforated pin fins with inline and staggered arrangement', Applied Thermal Engineering, 125, pp. 596–616, Elsevier, doi: 10.1016/j.applthermaleng.2017.07.053.
- 4. S. Dey, T. Mukhopadhyay, S. Adhikari, Metamodel based high-fidelity stochastic analysis of composite laminates: A concise review with critical comparative assessment, Composite Structures, Vol. 171, 227-250, 2017.
- 5. P. K. Karsh, T. Mukhopadhyay, S. Dey, Spatial vulnerability analysis for the first ply failure strength of composite laminates including effect of delamination, Composite Structures, Vol. 184, pp.554-567, 2017.
- 6. H. Singh, B. C. Hazarika, S. Dey, Low velocity impact responses of functionally graded plates, Procedia Engineering, Vol.173, pp. 264–270, 2017.
- 7. S. Dey, T. Mukhopadhyay, S. Naskar, T. K. Dey, H. D. Chalak, S. Adhikari, Probabilistic characterization for dynamics and stability of laminated soft core sandwich plates, Journal of Sandwich Structures and Materials, DOI: 10.1177/1099636217694229, 0(00) 1–32, 2017.
- 8. S. Dey, T. Mukhopadhyay, S. K. Sahu, S. Adhikari, Stochastic dynamic stability analysis of composite curved panels subjected to non-uniform partial edge loading, European Journal of Mechanics / A Solids, Vol. 67, pp.108-122, 2018.
- 9. Kumar A., Biswas A. Techno-Economic Optimization of Stand-alone PV/PHS/Battery systems for very low load situation. Journal of Renewable Energy Research, Vol 7, No. 2, 2017, pp 844-856. Publisher: IJRER Press,
- 10. Kumar A. Biswas A. Techno-Economic Optimization of a Stand-alone PV-Battery Renewable Energy system for low load factor situation- a comparison between optimization algorithms. Publisher: Materials and Energy Research Center, IJE Transactions A: Basics, Vol 30, No. 10, 2017, pp 1417-1426.
- 11. Sengupta, A.R., Biswas, A. and Gupta, R. The aerodynamics of high solidity unsymmetrical and symmetrical blade H-Darrieus rotors in low wind speed condition. Journal of Renewable and Sustainable Energy 9, 043307 (2017). Publisher: American Institute of Physics (AIP).
- 12. Sengupta, A.R., Biswas, A. and Gupta, R. Investigations of H-Darrieus rotors for different blade parameters at low wind speeds. Journal of Wind and Structures, Vol 25, No. 6 (2017) 551-567. Publisher: Techno-Press.
- 13. Manash Protim Boruah, Pitambar R. Randive, Sukumar Pati, hydrothermal performance and entropy generation analysis for mixed convective flows over a backward facing step channel with baffle, Manash Protim Boruah, Pitambar R. Randive, Sukumar Pati, International Journal of Heat and Mass Transfer 125 (2018) 525–542.
- 14. Kumar, R., Bhowmik, S., and Kumar, K., 2017, Establishment and effect of constraint on different mechanical properties of bamboo filler reinforced epoxy composite, International Polymer Processing, 32 (3), 308 315, SCI, Impact Factor: 0.634., DOI: https://doi.org/10.3139/217.3311
- 15. Zindani, D., Maitya, S. R., Bhowmik, S., and Chakraborty, S., 2017, A material selection approach using the TODIM (TOmada de Decisao Interativa Multicriterio) method and its analysis, International Journal of Materials Research, 108 (5), 345-354, SCI, Impact factor: 0.6, DOI: 10.3139/146.111489
- 16. Kumar, R., Kumar, K., and Bhowmik, S., 2017, Assessment and response of treated Cocos nucifera reinforced toughened epoxy composite towards fracture and viscoelastic properties, Journal of Polymers and The Environment, 26(6), 2522 2535, SCIE, Impact Factor: 1.877, ISSN: 1566-2543, DOI: https://doi.org/10.1007/s10924-017-1150-y.
- 17. Kumar, R., Kumar, K., and Bhowmik, S., 2018, Mechanical characterization and quantification of tensile, fracture and viscoelastic characteristics of wood filler reinforced epoxy composite, Wood Science and Technology, 52(3), 677 699, SCI, Impact Factor: 1.509, ISSN: 1432-5225, DOI: https://doi.org/10.1007/s00226-018-0995-0.

- 18. Payel Deb, Ashish B. Deoghare, Effect of pretreatment processes on physicochemical properties of hydroxyapatite synthesized from Puntius conchonius fish scales. Bulletin of Materials Science (Accepted on 26-03-18).
- S. Debbarma, R.D. Misra, Effects of iron nanoparticle fuel additives on the performance and exhaust 19. emissions of a CI engine fuelled with diesel and biodiesel, Journal of Thermal Science and Engineering Application, 10(4), 1-6, 2018, doi: 10.1115/1.4038708 (SCI).
- 20. S. Debbarma, R.D. Misra, Effects of iron nanoparticles blended biodiesel on the performance and emission characteristics of a diesel engine, Journal of Energy Resources Technology, 139(4), 1-8, 2017, doi: 10.1115/1.4036543 (SCI).
- Dey, A., Pandey, K.M., Selection of optimal processing condition during WEDM of compocasted AA6061/cenosphere AMCs based on grey-based hybrid approach (2018) Materials and Manufacturing Processes, 33 (14), pp. 1549-1558. DOI: 10.1080/10426914.2018.1453154 (SCIE), PUBLISHER: Taylor and Francis Inc.
- 22. Dey A, Pandey KM. Wire electrical discharge machining characteristics of AA6061/cenosphere as-cast aluminum matrix composites. Materials and Manufacturing Processes. 2017 Oct 25; 33(12):1346-53.
- Choubey G, Pandey KM. Effect of variation of inlet boundary conditions on the combustion flow-field of a 23. typical double cavity scramjet combustor. International Journal of Hydrogen Energy. 2018 March 31; 43(16):8139-51.
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- 4. Jagadish, Bhowmik, S., Ray, R., and Rajakumaran, M., Optimization of Process Parameters using Fuzzy-Grey Relational Analysis (F-GRA) for Green EDM, Renewable Energy Technologies: Issues and Perspectives (RETIP 2017), NIT Silchar, Assam, 25th September, 2017, AIP Conf. Proc. 1998, 020011-1–020011-9; DOI: https://doi.org/10.1063/1.5049107, Published by AIP Publishing. 978-0-7354-1714-4/\$30.00.
- 5. Jagadish, Bhowmik, S., Ray, A., and Gudala, S., Cutting Fluid Selection for Environmentally Conscious

- Design for Manufacturing: An Integrated Theory Design for Manufacturing: An Integrated Theory, Renewable Energy Technologies: Issues and Perspectives (RETIP 2017), NIT Silchar, Assam, 2017AIP 25thSeptember, Conf. Proc. 1998. 020010-1-020010-7, DOI: https://doi.org/10.1063/1.5049106; Published by AIP Publishing. 978-0-7354-1714-4/\$30.00.
- Zindani, D., Maity, S.R., and Bhowmik, S., Selection of material for wind turbine blade using 6. PROMETHEE-GAIA method, Renewable Energy Technologies: Issues and Perspectives (RETIP 2017), NIT Silchar, Assam, 25th September, 2017, AIP Conf. Proc. 1998, 020008-1-020008-6; DOI: https://doi.org/10.1063/1.5049104, Published by AIP Publishing. 978-0-7354-1714-4/\$30.00.

e) Book/Chapter:

- 1. Book Chapter 4 (Part - I): Bhowmik, S., Jagadish, and Ray, A., 2017 Abrasive Water Jet Machining of Composites Materials, Advanced Manufacturing Technologies, Springer, 77 - 97, ISBN 978-3-319-56098-4, DOI:-10.1007/978-3-319-56099-1;
- Book Chapter 9: Kumar, R. and Bhowmik, S., 2017, Development of Natural Bio-Filler based epoxy 2. composite for wind turbine blade application, Design and Optimization of Mechanical Engineering Products, IGI Global, 180 – 196, DOI: 10.4018/978-1-5225-3401-3.ch009;
- 3. Book Chapter 12: Bhowmik, S. and Jagadish, 2017, Multi-criteria decision making for optimization of product development under green manufacturing environment, Design and Optimization of Mechanical Engineering Products, IGI Global, 234 – 249, DOI: 10.4018/978-1-5225-3401-3.ch012;
- Book Chapter 6: Zindani, D., Maity, S.R. and Bhowmik, S., 2017, A decision making Approach for 4. Material Selection of Polymeric Composite Bumper Beam, Composites and Advanced Materials for Industrial Applications, IGI Global, 112-128, DOI: 10.4018/978-1-5225-5216-1.ch006.

1.6 CONSULTANCY SERVICES

SI. No.	Name of the Scheme	Sponsoring Agency	Amount Earned	
1.	Solar Regional Test Center	MNRE	Rs. 23,000/-	

1.7 MAJOR EQUIPMENT ACQUIRED: NIL

1.8 PATENT

SI. No.	Details			
1.	Sudipta Halder, P.K. Ghosh, A multifunctional technique for dispersion of thoroughly broken agglomerates of inorganic nanoparticles in viscous fluid, Application No. 1554/Del/2008, Grant No. 292158.			
2.	Development of composite material from biodegradable Cashew nut shell (Anacardium occidentale), Das Lala Sumit, Deoghare Ashish Bhalchandra, Chatterjee Sushovan. Application No – 201731007338. (Examination awaited)			
3.	Development of composite material from oil extracted and alkali treated Cashewnut shells (Anacardium occidentale), Das Lala Sumit, Deoghare Ashish Bhalchandra, Chatterjee Sushovan. Application No – 201731007337 (Examination awaited)	2017		

1.9 VISITS TO ABROAD

SI.No.	Name of the Faculty	Name of the Conference/ Programme	Place	Date
1.	Dr. S. Bhowmik	10 TH International Conference on Sustainable Energy and Environmental Protection (SEEP 2017)	Bled, Slovenia	June 27 – 30, 2017
2.	Dr Sudip Dey	3 rd International Conference on Mechanical and Aeronautical Engineering (ICMAE 2017) on Dec 13-16, 2017 at Dubai, UAE	Dubai, UAE	Dec 13-16, 2017
3.	Dr.K.M.Pandey	10 th International conference on Sustainable Energy and Environmental Protection (SEEP2017)	Bled, Slovenia	27-30 June 2017
4.	Dr. B. Das	10 th International conference on Sustainable Energy and Environmental Protection (SEEP2017)	Bled, Slovenia	27-30 June 2017
5.	Dr. S. Halder	Novel Encapsulation Technology for Energy Efficient Building Materials and Self-Healing of Concrete, JEC-Chicago	USA	2017

1.10 M.Tech. / M.Sc. (Thesis/Project)

SI. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project	
1.	Monotosh Das	Dr. A. Biswas	Techno-economic optimization of some Hybrid Renewable Energy Systems for meeting energy demand of a radio transmitter station.	
2.	Sanjeet Kumar	Dr. A. Biswas & Dr. B. Das	Design and thermal analysis of an innovative photo-voltaic thermal collector (PVTC) system for the meteorological condition of North-East	
3.	Ankur Srivastav	Dr. A. Biswas & Dr. B. Das	Experimental and Computational Analysis of Solar drying of tea leaves using PV-T module	
4.	Abhijeet Kumar	Dr. Sudip Dey	Free vibration analysis of multiple delaminated glass-epoxy composite plates	
5.	Surajit Das	Dr. Sudip Dey	Effect of eccentricity on stochastic dynamic analysis of journal bearing – An ANN approach	
6.	Vaishali	Dr. Sudip Dey	Stochastic natural frequency analysis of sandwich plates	
7.	Rutupurna Choudhury	Dr. Sudip Dey	Fuzzy based low velocity impact analysis of composite plates	
8.	Vijay Singh	Dr. Pitambar Randive	Numerical Investigation on the effects of Swirl and Surface Configurations on Thermo-Hydraulic Characteristics of Turbulent offset Jet	
9.	Gaurav Kumar	Dr. S. Bhowmik	Synthesis and response study of tensile and flexural properties of bamboo filler based functionally grade composite	
10.	Rahul Jayasval	Dr. S. Bhowmik	Evaluation and optimization of thrust force in drilling operation of particle board composite panels	
11.	Pran Jyoti Saikia	Dr. S. Bhowmik	Development of bamboo filler epoxy composite and its response towards cyclic loading	

12.	Mr. Sumit Kumar	Dr. A.B. Deoghare	Computational Study of Human Abdominal Artery for Blood Flow Analysis
13.	Mr. Kharat Sandeep Bhagwan	Dr. A.B. Deoghare	Two phase CFD analysis of air-aerosol flow through human airways to achieve efficient patient specific drug deposition
14.	Mr. Dhiraj S. Bombarde	Dr. A.B. Deoghare	Three-Dimensional Finite Element Modelling and Dynamic Response Analysis of Human Middle Ear
15.	Siddhita Yadav	K.M.Pandey	Computational study of flame behaviour on scramjet engine with tandem dual cavity
16.	Saurabh Tripathi	K.M.Pandey	Effect of Obstacles on Flame velocity in Pulse Detonation Engine
17.	Kumar Aditya Chandra	K.M.Pandey &K. K Sharma	CFD analysis solar water heater
18.	Shivji Kumar	K.M.Pandey &K. K Sharma	CFD analysis solar water heater
19.	Pankaj Kumar Shahu	K.M.Pandey & S.R. Maity	Machining Performance Evaluation of Al 6061T6 using Abrasive Water Jet Process.
20.	Dhiraj Raj	K.M.Pandey &S.R. Maity	Experimental Study on Properties of Cold Rolled Al-12 Si alloy fabricated by spray forming
21.	Shende suraj Balu	K.M.Pandey &A.B. Deoghare	Design and modeling of human middle ear for harmonic response analysis
22.	Radhe Tado	K.M.Pandey &A.B. Deoghare	Computational study of blood flow analysis for coronary artery disease
23.	Guttikonda Manohar	K.M.Pandey &S.R.Maity	Experimental study on Mechanical properties of AA 7075/B ₄ C Nano Composites Fabricated by Power Metallurgy Technique
24.	Navin Niraj	K.M.Pandey	Tribiological behaviour of magnesium metal matrix composites
25.	Ajay Yadav	K.M.Pandey	Tribiological behaviour of aluminium metal matrix composites
26.	Smriti Jaiswal	K.M.Pandey &A.B. Deoghare	CFD simulation of two phase air aerosol drug deposition in the human airways
27.	Girija sankar Murmu	K.M.Pandey	Preparation of biodegradable plastic and bio-bag using banana peel as an alternative of plastic bag optimising with Taguchi method
28.	Netrananda Behera	K.M.Pandey	Modeling and simulation of uni-directional MMC subjected to off axis loading using cohesive zone under elevated temperature
29.	Shashi Bhushan Gunjan	Sudipta Halder & P. Choudhury	Synthesis and characterization of Graphene induced diels- alder based self-healing epoxy system
30.	Jogeshwar Sahoo	P. Choudhury	Determination of GTT & elastic constants of DGEBF-DETDA epoxy polymer system using molecular dynamics simulation
31.	Ajay Kumar	Dr. K.M. Pandey	Performance Analysis of wind farm model using Savonius VAWTs with various Alignment having Different Diameter and Different Heights
32.	Siddhartha Sagar Bora	Sudipta Halder & P. Choudhury	Experimental study on electrophoretic deposition of surface modified carbon nano particles on glass fibre.
33.	Aby M Philip	Dr. K. Chakraborty	Study on machinability of austenitic stainless steel(316L)
34.	Jai Tiwari	Dr. K. Chakraborty	Study on machinability of 52100 alloy steel
		-	

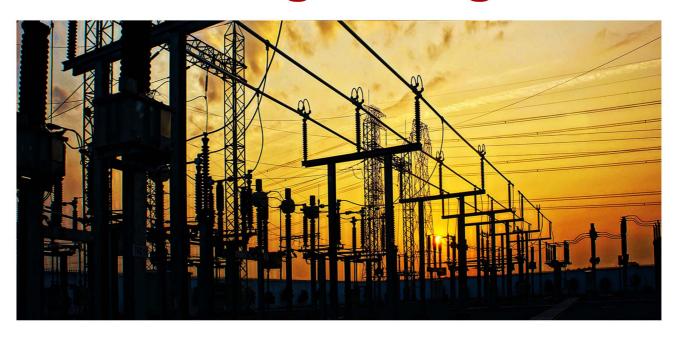
35.	Gopal Chandra Pal	Dr. Sukumar Pati	Some Studies on Natural Convection Heat Transfer inside an Enclosure having Pair of Cylinders Embedded in it.	
36.	Madhusmita Sahoo	Dr. Sukumar Pati	Combined effects of Pulsatile Flow and Non-uniform Heating on Transport Characteristics for Flow through Wavy Channel	
37.	Saranga Sekhar Saikia	Dr. S. Nath	Investigation of macrochannel and microchannel evacuated tube solar collectors	
38.	Shashank Paul	Dr. D. Bhanja	Thermal performance analysis of PVT System with cooling arrangement	
39.	Shreekant Kumar Sahu	Dr. S. Nath and Dr. D. Bhanja	Development of a methodology to optimize micro fin heat sink for enhancing heat transfer	
40.	Yogesh Garud	Dr. P. Debroy	Analysis of wave forces on submerged vertical plate using Stokes Non-linear wave theory and design of Numerical Wave tank	
41.	Biswa Baran Behera	Dr. S. Halder	Introducing transformation behaviour during failure in hybrid GFRP laminates	
42.	Dhruba Jyoti Sarma	Dr. S. Halder	Incorporation of surface modified waste glass nanoparticle in GFRP to enhance the multifunctional property	

1.11 Ph.D Theses

SI. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis
1.	Mr. Jagadish	S. Bhowmik (Supervisor) and A. Ray (Jt. Supervisor).	Development of Green Manufacturing Strategies for Process Parameter Optimization on Processing of Metallic and Polymeric Materials
2.	Ajoy Debbarma	K.M.Pandey	Computational analysis of rewetting of nuclear fuel clad surface during loss of coolant accident
3.	Deepak Sharma	K.M.Pandey	CFD Analysis of thermal hydraulics behaviour of fuel rod using nanofluids in Light water nuclear reactor
4.	Abhijit Dey	K.M.Pandey	Experimental Studies on composite materials
5.	Gautam Choubey	K.M.Pandey	Numerical simulation with CFD on the performance of Scramjet combustor using Multi-strut injector
6.	Saroj Yadav (Submitted)	K.M.Pandey	A Comparative Thermal Analysis of Pin Fins for Improved Heat Transfer in Forced Convection
7.	Sumita Debbarma	R.D. Misra	Experimental Investigation on CI Engine Performance and Exhaust Emissions using Biodiesel with Nano-Additives
8.	S. Wangikar (Submitted)	P.K. Patowari & R.D. Misra	Design and Development of Microchannel for effective Mixing of Multifluids
9.	Bhabani Pattanayak (Submitted)	R.D. Misra	Synthesis of Deoxygenated Biofuels and their Experimental Performance Evaluation for CI Engine Applications
10.	Subhankar Das (Submitted)	Dr. S. Halder	Silanized Carbon Fillers and its Damage Mitigation Capabilities for Potential Reinforcement in Hybrid Laminates

1. Name of the Department:-

Electrical Engineering



1.1 Academic Staff:

HEAD: Prof. Nalin B. Dev Choudhury

Name of Faculty members:

Professor	Associate Professor	Assistant Professor
Prof. (Late) Ashoke Kumar Sinha	Dr. Saurabh Chaudhury	Dr. Lalit Chandra Saikia
Prof. Nidul Sinha	Dr. Nalin B Dev Choudhury	Dr. Tanmoy Malakar
Prof. Binoy Krishna Roy		Dr. Chayan Bhattacharjee
		Dr. Dulal Chandra Das
		Dr. Prashant Kumar Tiwari
		Dr. Nirmala Soren
		Dr. Raj Kumar Biswas
		Dr. Prasanta Roy
		Dr. Rajeeb Dey
		Dr. Jyoti Prakash Mishra
		Dr. Arup Kumar Goswami

1.2 Distinction Achieved

a) By Student:

Dr. Rajeeb Dey: B.Tech students have filed and published one patent in Dec 2017. Name of the students, Santosh Rakkumar, Sayan Chakraborty.(Application No.201721039540A)

b) By Faculty Member:

Dr. Rajeeb Dey:

- Rajeeb Dey has filed and published two patents in Dec 2018
- 1) Wireless network based embedded control design method for actuator with uncertain delay. No. 201721043325A, publication date 22 December 2017, Indian Patent office journal 51/2017.
- 2) Fabrication of an automated assembly of jigs and fixtures for knee replacement surgery. No. 201721039540, pub date 22 December 2017, Indian Patent Journal 51/2017.
- Rajeeb Dey Selected as Associate Editor IEEE Access Journal.
- Delivered invited talk at IEEE EPSCICON January 2018 at Thrissur, Kerela.
- Delivered technical session as a resource person at ISTE-STTP on Control of Power Electronics Devices, July 2017 at Nirma University, Gujarat,
- Editor of the International Journal of Advanced Intelligence Paradigms, Inderscience.

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) Conducted by Faculty Member

SI. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	Dr. Saurabh Chaudhury	IET Awareness cum Invited talk on Smart Grid & IOT	IET (UK) Kolkata & NIT Silchar	28 th August 2017 (1 day)
2	Dr T Malakar and Dr. R. Dey	One Week Workshop on Hands on Training using Mi-Power Software for Power System Analysis	TEQIP-III & PRDC Pvt. Ltd	2-6 Oct'2018
3	RAJEEB DEY EXPERT: ALEXENDER S POZNYAK, MEXICO	GIAN COURSE ON ROBUST CONTROL: ATTRACTIVE ELLIPSOID METHOD AND SLIDING MODE CONTROL	MHRD	11/11/2017 TO 16/11/2017
4	Prof. N. B. Dev Choudhury	National Workshop on Massive Open Online Courses (MOOCs),from 26.08.17 to 27.08.17	TEQIP-III and Royal Academy of Engineering, UK	26-08-2017 to 27-08-2017
5	Prof. N. B. Dev Choudhury	Two week ISTE STTO on Electric Power System under MNEICT	IIT Kharagpur and MHRD	10-07-2017 to 15-07-2017
6	Prof. N. B. Dev Choudhury	One week GIAN course on "Methodological Approach for circuit analysis of Modern Power System" sponsored by MHRD	IIT Kharagpur and MHRD	08-01-2018 to 13-08-2018
7	Prof. B. K. Roy, Dr. P. Roy	Edumeet on Factory Autmation and Reform of Academia,	TEQIP-III and Mitsubishi Electric India Ltd.	23 rd March, 2018

b) **Participated by Faculty Member**

SI. No.	Name of Faculty	Details of the Program	Organizing Institute
1.	Prof. Binoy Krishna Roy	National Workshop on Massive Open Online Courses (MOOCs),from 26.08.17 to 27.08.17	NIT Silchar &Thapar University
2	Dr. Jyoti Prakash Mishra	Two-week ISTE STTP on "Electric Power System" under the National Mission on Education through ICT (MHRD) from 10 th to 15 th July, 2017	IIT Kharagpur
3	Dr. Prashant Kumar Tiwari	3rd Educational meet on Factory Automation, "Bridging the Gap between Industry and Academia", on 23 rd March-2018	Jointly organized by NIT Silchar and Mitsubishi Electric India.Ltd.
4	Dr. Prashant Kumar Tiwari	National workshop on "Train the Trainer" on Massive Open Online Courses (MOOCs), 26- 27 August 2017	Organized by TEQIP-III, N.I.T. Silchar in collaboration with Royal Academy of Engineering (UK) and Thapar University (Patiala).
5	Prof. N. B. Dev Choudhury	National workshop on "Train the Trainer" on Massive Open Online Courses (MOOCs), 26- 27 August 2017	Organized by TEQIP-III, N.I.T. Silchar in collaboration with Royal Academy of Engineering (UK) and Thapar University (Patiala).
6	Prof. N. B. Dev Choudhury	Edumeet on Factory Autmation and Reform of Academia, 23 rd March, 2018	Organized by EE Dept of NIT Silchar and sponsored by TEQIP-III and Mitsubishi Electric India Ltd.
7	Dr. L. C. Saikia	National workshop on "Train the Trainer" on Massive Open Online Courses (MOOCs), 26- 27 August 2017	Organized by TEQIP-III, N.I.T. Silchar in collaboration with Royal Academy of Engineering (UK) and Thapar University (Patiala).
8	Dr. L. C. Saikia	Edumeet on Factory Autmation and Reform of Academia, 23 rd March, 2018	Organized by EE Dept of NIT Silchar and sponsored by TEQIP-III and Mitsubishi Electric India Ltd.
9	Dr. D. C. Das	Two-week ISTE STTP on "Electric Power System" under the National Mission on Education through ICT (MHRD) from 10 th to 15 th July, 2017	IIT Kharagpur

1.4 Research Development

a) Ph.D. Programme (Specializations):

Prof. Nidul Sinha: Power System

Prof. Binoy Krishna Roy: Control System

Prof. Saurabh Chaudhury: VLSI Design, Tunnel FETs, FinFET Devices, Nanomaterials, Image

Processing and Applications.

Prof. N. B. Dev Choudhury: Deregulated Power system, Reliability, Energy.

Dr. A. K. Goswami: Power system

Dr. Jyoti Prakash Mishra: Power and Energy System Dr. Lalit Chandra Saikia: Power systems, Energy Dr. Tanmoy Malakar: Electrical Power Systems Dr. D. C. Das: Power and Energy Systems

Dr. Chayan Bhattacharjee: Power System and Control

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Dr. P. K. Tiwari: Power System

Dr. N. Soren: Energy and Power system

Dr. R. Dey: Control Systems

Dr. Raj Kumar Biswas: Control systems

Dr. P. Roy: Control Systems

b) Ph.D. Produced/Ongoing (in number):

Completed	Submitted	Ongoing
18	7	44

c) Research Lab/ Workshop:

SI. No.	Faculty Name	Name of Lab/Workshop	Purpose/Linkage to an existing/new programme
1	Prof. Saurabh Chaudhury	Virtual Nanolab (ATK 2018)	Research on Nanomaterials
2	Prof. Saurabh Chaudhury	Synopsys CAD Tool	For M.Tech and Ph.D research works
3	Dr. Lalit Chandra Saikia	Power system lab	For research scholar, PG student lab class, UG Lab class
4	Dr. Lalit Chandra Saikia	Electrical machine lab	For UG 5 th and 6 th semester Lab classes
5	Dr. Prasanta Roy	EDUMEET 2018 (with Mitsubishi Electric India)	To bridge the gap between the Industry and the Academia
6	Dr. D. C. Das	Non-conventional Energy lab	PG student lab class, PG/PhD research lab

d) Ongoing/Completed Sponsored Research Project:

SI. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1	Design & Implementation of pure sine wave inverter for residential solar power system in India	Dr. Arup K Gosweami	All India Council for Technical Education (AICTE), Research Promotion Scheme, India	15 Lakhs	December 2012 to January 2016
2	Power Quality Assessment and Improvement in Barak Valley	Dr. Arup K Gosweami	Department of Science and Technology, Science and Engineering Research Board, India	9.87 Lakhs	December 2012 to January 2016
3	Development of Battery Super-capacitor Hybrid Energy Storage System for Stand-alone Solar Photovoltaic Power System	PI: Dr. Munmun Khanra (E&I Dept., NIT Silchar) Co-PI: Dr. J.P. Mishra, EE Dept., NIT Silchar	DST, SEED Division	22.21816	03 Years

Research Paper Reviewed e)

SI. No.	Faculty Name	Journal Name	No. of Paper	Year
1	Prof. Binoy Krishna Roy	IEEE-TCAS-II,TCAS-I, IEEE Acess Elsevier-CSF, Springer-NODY AIP-Chaos, Wiley-Asian Journal of Control, Control theory application , T&F-JSS, IJC, IOP Science: CPB, etc.	30+	Apr. 2017 To March 2018
2	Dr, J.P. Mishra	IET Renewable Power Generation	02	2017
3	L. C. Saikia	IET generation, transmission & Distribution IET Renewable power generation ISA transaction ITEES, Willy International Journal of Renewable power generation International journal of Electrical power and Energy IEEE transactions on power and Energy	3 4 2 5 4 2	2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 2017-18
4	Dr. T. Malakar	IEEE Trans on Industrial Informatics IEEE System Journal IET Gen, Transm & Distrib IET Renewable Power Generation Applied Soft Computing, Elsevier Int. J. of Electrical Power & Energy Systems, Elsevier Electric Power Components and Systems, T & F Swarm & Evolutionary Computation, Elsevier	01 01 04 01 02 02 02 03 02	2017-18
5	Dr. Chayan Bhattacharjee	Energy Conversion and Management, Elsevier IEEE transactions on power systems	2 1	2017
6	Dr. Raj Kumar Biswas	Journal of the Franklin Institute Asian Journal of Control Transactions of the Institute of Measurement and Control IMA Journal of Mathematical Control and Information	04 01 01	2017-18
7	Dr Prashant Kumar Tiwari	IEEE Transactions on Power Systems IET Generation, Transmission & Distribution Int. J. of Computers & Electrical Engineering (Elsevier) Renewable Energy Focus (Elsevier) Ain Shams Engineering Journal (Elsevier)	02 05 01 02 01	2017-18
8	Dr. Rajeeb Dey	ISA Transaction, JFI, Asian Journal of control, IEEE ACCESS	15	2017-18
9	Dr. Prasanta Roy	ISA Transaction	4	2017-18
10	Prof. N. B. Dev Choudhury	IET Science, Measurement and Technology International Transactions on Electrical Energy Systems IET Generation, Transmission & Distribution	12	2017-18

11	Dr. D. C. Das	IEEE System Journal	5	April 17 to
		IET Renewable Power Generation		March 18
		Energy Conversion and Management.		
		International Journal of System Assurance		
		Engineering and Management		

f) Chairing of Technical Section

SI. No.	Faculty Name	Details	
1	Dr. Saurabh Chaudhury	Research Conclave 2017, NIT Silchar ICNSNT 2017, SriLanka	
2	Dr. T. Malakar	Inter. Conf. on Innovations in Infrastructure, Springer. Organized by Institute of Infrastructure Technology Research and Management, Ahmedabad. Gujarat. During 18-19 May 2018	
3	Rajeeb Dey	In IEEE EPSCICON at Thrissur, Kerala. Technical Session on Control Theory and Applications, January 2018.	

1.5 PUBLICATION

a) International Journal(s):

- K. Lochan, B. K. Roy, B. Subudhi, November 2017, Robust tip trajectory synchronisation between assumed modes modelled two-link flexible manipulators using second-order PID terminal SMC, Robotics and Autonomous Systems, Vol.97, Pp 108-124. (http://www.sciencedirect.com/science/article/pii/S0921889017300611)
- J. P. Singh, K. Lochan, N. V. Kuznetsov, B. K. Roy, Coexistence of single- and multi-scroll chaotic orbits in a single-link flexible joint robot manipulator with stable spiral and index-4 spiral repellor types of equilibria, Volume 90, Issue 2, pp 1277–1299. (https://link.springer.com/article/10.1007/s11071-017-3726-4)
- JP Singh, B. K. Roy, September 2017, Coexistence of Asymmetric Hidden Chaotic Attractors in a New Simple 4-D Chaotic System with Curve of Equilibria, Optik - International Journal for Light and Electron Optics, Volume no.145, Pages 209-217, (http://www.sciencedirect.com/science/article/pii/S0030402617308598)
- P. P. Singh, JP Singh, BK Roy,2017,NAC-based Synchronisation and Anti-synchronisation Between Hyperchaotic and Chaotic Systems, Its Analogue Circuit Design and Application,IETE Journal of Research, Volume 63,Issue 6,Pages 853-869. (http://www.tandfonline.com/doi/full/10.1080/03772063.2017.1331758)
- M. Borah, P. Roy, BK Roy, Enhanced Performance in Trajectory Tracking of a Ball and Plate System using Fractional Order Controller,IETE Journal of Research,DOI: 10.1080/03772063.2017.1343157, (http://www.tandfonline.com/doi/full/10.1080/03772063.2017.1343157)

- 6. JP Singh, BK Roy, Multistability and hidden chaotic attractors in a new simple 4-D chaotic system with chaotic 2-torus behaviour, International Journal of Dynamics and Control, DOI: 10.1007/s40435-017-0332-8, (https://link.springer.com/article/10.1007/s40435-017-0332-8)
- 7. JP Singh and BK Roy, The simplest 4-D chaotic system with line of equilibria, chaotic 2-torus and 3-torus behaviour, Nonlinear Dynamics, Volume 89, Issue 3, 1845-1862, pp (https://link.springer.com/article/10.1007/s11071-017-3556-4)
- 8. M. Borah, BK Roy, An enhanced multi-wing fractional-order chaotic system attractors and switching hybrid synchronisation with its non autonomous counterpart with coexisting, Chaos Solitons & Fractals, Volume 102, September 2017, Pages 372-386, (http://www.sciencedirect.com/science/article/ pii/S0960077917301169)
- 9. P. Roy, B. Kar, BK Roy, 2017, Fractional Order PI-PD Control of Liquid Level in Coupled Two Tank System and its Experimental Validation: Cascaded FOPI-FOPD Control, Asian Journal of Control, Volume 19, Issue 5, Pages 1699–1709, (http://onlinelibrary.wiley.com/doi/10.1002/asjc.1487/abstract)
- 10. M. Borah and BK Roy,2017, Can fractional-order coexisting attractors undergo a rotational phenomenon, ISA Transactions, DOI: 10.1016/j.isatra.2017.02.007,(https://www.ncbi.nlm.nih.gov/pubmed/28213982)
- C. Bhattacharjee, B. K. Roy, 2018, A Novel Fuzzy-Supervisory Control of a Hybrid System to Improve 11. Contractual Grid Support with Fuzzy Proportional-Derivative and Integral (FPD+I) Control for IET Generation Transmission & Distribution, Vol 12.lss. 7 pp. 1455-1465, (http://digitallibrary.theiet.org/content/journals/10.1049/iet-gtd.2017.0708)
- J. P Singh, B. K. Roy, S. Jafari, 2017, New family of 4-D hyperchaotic and chaotic systems with quadric 12. surfaces of equilibria, Chaos Solitons & Fractals, Vol. 106, pp. 243-257, (https://www.sciencedirect.com/ science/article/pii/S0960077917304939)
- J. P Singh and B. K. Roy, 2018, Hidden attractors in a new complex generalised Lorenz hyper-chaotic 13. system, its synchronisation using adaptive contraction theory, circuit validation and application, Nonlinear Dynamics, Vol. 92(2), 373-394, (https://link.springer.com/article/10.1007%2Fs11071-018-4062-z)
- S. Samanta, J. P.Mishra and B. K. Roy,2017, Hierarchical Virtual Inertia Control of a Grid Connected 14. Inverter Interfaced DC Micro Grid to Regulate the DC Bus Voltage, Journal of Advanced Research in Dynamical and Control Systems,10(03-Special Issue):pp.186-195, (http://www.jardcs.org/abstract.php? archiveid=3043)
- 15. J. P Singh, B. K. Roy and Zhouchao Wei, A new four-dimensional chaotic system with first Lyapunov exponent =22, hyperbolic curve and circular paraboloid types of equilibria and its switching synchronization by an adaptive global integral sliding mode control, Chinese Physics B, Vol. 27(4), 040500-040514, (https://www.sciencedirect.com/science/article/pii/S0960077917304939)
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- 17. Debashish Dash, Chandan K. Pandey, Saurabh Chaudhury, and Susanta K. Tripathy,2018,Structural, Electronic and Mechanical Properties of Cubic TiO2: A First-Principle Study, Vol. 27, No. 1, 171530, DOI: 10.1088/1674-1056/27/1/017102
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- 12. Rajeeb Dey, Goshaidas Ray, & Valentina .E. Balas. Stability and Stabilization of Linear and Fuzzy Time-Delay Systems: A Linear Matrix Inequality Approach. Springer International Publishing. AG 2018, ISSN 1868-4394 in the book series Intelligent Systems Reference Library, Springer.

- Anirudh Nath, R. Dey, Valentina E Balas. Closed Loop Blood Glucose Regulation of Type 1 Diabetic 13. Patient Using Takagi-Sugeno Fuzzy Logic Control. Springer International Publishing AG, Gewerbestrasse 11, 6330 Cham, Switzerland. ISSN 2194-5357, ISBN 978-3-319-62523-2, book series Advanced Intelligent Systems.
- Hemjyoti Das, Aniket Samrat Mazumdar, Rajeeb Dey, & Lintu Roy. Experimental Implementation of 14. Fuzzy Vision-Based Tracking Control of Quad-Rotor. Springer International Publishing AG, Gewerbestrasse 11, 6330 Cham, Switzerland. ISSN 2194-5357, ISBN 978-3-319-62523-2, book series Advanced Intelligent Systems.
- Jay P. Singh, Rajeeb Dey, Binoy Krishna Roy. An LMI Based Integral SMC for Tracking Control of a 15. New 4-D Conservative Chaotic System. Springer International Publishing AG, Gewerbestrasse 11, 6330 Cham, Switzerland. ISSN 2194-5357, ISBN 978-3-319-62523-2, book series Advanced Intelligent Systems.
- 16. Kshetrimayum Lochan, Rajeeb Dey, Binoy Krishna Roy, Bidyadhar Subudhi. Tracking Control with Vibration Suppression of a Two-link Flexible Manipulator using Singular Perturbation with Composite Control Design. Springer International Pulishing AG, Gewerbestrasse 11, 6330 Cham, Switzerland. ISSN 2194-5357, ISBN 978-3-319-62523-2, book series Advanced Intelligent Systems.
- Debasis Tripathy, Amar Kumar Barik, N. B. Dev Choudhury, B. K. Sahu. Perforance Comparison of 17. SMO-based Fuzzy PID Controller for Load Frequency Control. Soft Computing for Problem Solving, ISBN 978-981-13-1591-6, Book series Advances in Intelligent Systems Computing.https://www.springer.com/gp/book/9789811315916

1.6 CONSULTANCY SERVICES: NIL

1.7 MAJOR EQUIPMENT ACQUIRED

1. Serial 2DOF two-link flexible manipulator

1.8 PATENT

SI. No.	Details	Year
1	D. Deb, R. Dey, S. Chakraborty, S. M. Rajkumar, Wireless Network Based EmbeddedControl Design Method for Actuators with Uncertain Delays", No. 201721043325 A.	
2	H. Gandhi, H. Karangia, D. Goyal, D. Deb, M. Sharma, R. Dey, Fabrication of an Automated Assembly of Jig and Fixture or Knee Replacement Surgery, No. 201721039540A.	

1.9 VISITS TO ABROAD

SI.No.	Name of the Faculty	Name of the Conference/ Programme	Place	Date
	Dr. Saurabh Chaudhury	ICNSNT 2017	Colombo, SriLanka	14-15 Dec. 2017
2	Nirmala Soren	2017 IEEE Region 10 Conference (TENCON)	Penag, Malaysia	November 5-8, 2017

1.10 M.Tech. / M.Sc. (Thesis/Project)

SI. No.	Name of the Scholar Name of the Supervisor		Title of the Thesis/Project
1	BhawaniSankarDey	Prof. Binoy Krishna Roy Dr. Manas Kumar Bera	Control of Cancerous Tumour Growth by Chemotherapy
2	Pakaj Prakash	Prof. Binoy Krishna Roy	Fractional-order and Integer-order Chaotic and Hyperchaotic Systems, Control, Synchronisation, and Their Circuit Simulation
3	Sibir Ahmad	Prof. Binoy Krishna Roy	Tip Position and Tip Deflection Control of a Two- Link Flexible Manipulator
4	UtsabRakshit	Prof. Binoy Krishna Roy	Selection and Placement of Automatic Couplers in a Long Freight Train to Reduce the Coupler Forces and Wheel Slide Protection System
5	Anindya Biswas	Dr. Saurabh Chaudhury	Intelligent Traffic Control
6	Mr. Pratik Harsh	Dr. A K Goswami	Charging Coordination of Plug-in Electric Vehicle for Congestion Management in Distribution System.
7	MsMamataDebbarma	Dr. A K Goswami Optimal placement and sizing of Generation for voltage sag mitigating Industrial distribution system	
8	Jajna Prasad Sahoo	Dr. A K Goswami	Charging Coordination of Plug in Electric Vehicle to Mitigate Congestion in Distribution System Integrated with Renewable Energy Sources
9	Gyanendra Prakash	Dr. Jyoti Prakash Mishra	Study of Control Strategies to improve Micro-grid performance during Islanding mode.
10	Prantik Majumder	Dr. Jyoti Prakash Mishra and Dr. Rajeeb Dey	An Improved Control Scheme for Shunt Active Filter under Distorted and Unbalanced Conditions
11	Naladi Rambabu	Dr. L.C.Saikia	Demand Side Management using Smart AC qndMicro DC Grid with BSS and Wind Energy
12	Survra Vijay	Dr. L.C.Saikia	Scheduling of Residential Appliances for Demand Side Management with Energy Storage in Smart Grid Environment
13	Sanjeeb Bhagat	Dr. L.C.Saikia	Automatic Generation Control of Multi-area System Under Deregulated Environment
14	Shaik Mahmmadsufiun	Dr. T. Malakar	Some Studies In The Application Of Competitive Swarm Optimizer To Maximize The Generator Reactive Power Reserve In Power System Operation
15	Abhimanyu	Dr. T. Malakar	Solution Of Optimal Active Power Dispatch Problem Using Hybrid Artificial Bee Colony Algorithm

16	Mr. Ankit Sahi	Dr. Chayan Bhattachattacharjee	Fuzzy Logic Based Maximum Power Extraction of WECS and Its Comparative Analysis
17	Mr. Ankit Pal	Dr. Chayan Bhattachattacharjee	A Comparative Analysis of Different Control Schemes for PV Systems
18	Arup Pramanik	Dr. D. C. Das	Frequency control of plug in hybrid vehicle wind turbine diesel battery based autonomous hybrid power system
19	Soumyashree Behera	Dr. D. C. Das	Active Power Control of Parabolic-Trough Solar Thermal-Wind-Diesel Generator-Battery Based Isolated Hybrid Power System
20	Chudamani Sethi	Raj Kr Biswas	A formulation and solution scheme for optimal control problem of a fractional order singular system
21	Pintu Kumar	Raj Kr Biswas, Manas Bera	Control of HIV/AIDS dynamics
22	Raj Debnath	Nirmala Soren	Techno-economic feasibility analysis of an off-grid hybrid Energy system
23	Arun Dev Pandey	Nirmala Soren	An improved grey wolf optimization based MPPT teehnique for pv systems under partially shading conditions
24	Mr. Ankit Kumar Singh	Dr. Prashant Kumar Tiwari	An Optimal Bidding Strategy for Micro-grid in Day Ahead Deregulated Power Markets with Intermittent Renewables
25	Mr. G. Sriniwasulu	Dr. Prashant Kumar Tiwari	Feasibility Assessment of Bilateral & Multilateral Transactions with Optimal Location of Solar Power Plant in Competitive Power Market
26	Ms. Ampolu Maneesha	Dr. Prashant Kumar Tiwari	Optimal Bidding Strategy While Providing Ancillary Services with Wind-PSP Hybrid Generation System in Competitive Power Markets
27	Mr. Adarsh Nagariya	Dr. Prashant Kumar Tiwari	A Strategic Bidding Model for Power Market Considering Economic & Physical Congestions
28	Prantik Majumder	Dr. Rajeeb Dey	An improved control scheme for shunt active filter under distorted and unbalanced conditions.
29	Mr. Anindya Basu	Dr. P. Roy	Different Zone Temperature Control of Reheating Furnace and Plate Thickness Gap Control of Hot Rolling Mill of a Steel plant
30	Mr. Soumitra Barman	Dr. P. Roy	Design of an IDA-PBC Technique for Energy Management and Damping Improvement of a Renewable Based DC Hybrid Power System
31	Mr. Sadasiva Behera	Prof. N. B. Dev Choudhury	Maximum Power Point Tracking of Grid Connected PV System Employing Model Predictive Control Technique
32	M. Mohan	Prof. N. Sinha	Designing of Wind Turbine Emulator and its Integration with The Compressed Air Energy Storage and Grid
33	Neetu Singh	Prof. N. Sinha	Emotion Recognition from EEG signals

1.11 Ph.D. Theses

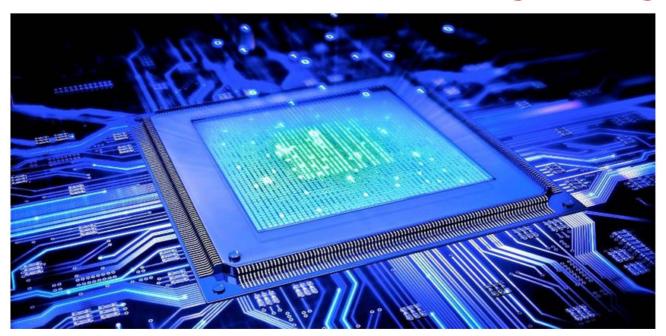
SI. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis	
1	Mr. Abahan Sarkar	Prof. Binoy Krishna Roy	Automation of some real issues in ITC plant	
2	Mr. BidharMalakar	Prof. Binoy Krishna Roy	A Study on Certain Aspects of Comfort and Safety Issues in Indian Railways Using VI-Rail	
3	Mr. Kshetrimayum Lochan	Prof. Binoy Krishna Roy	Design, Simulation and Experimental Validation of Robust Control Algorithm for Tip Trajectory Tracking Control of TLFM	
4	Mr. Prashant Roy (Part time)	Prof. Binoy Krishna Roy	Design and Application of Fractional Order Controllers and a Comparative Study with their Integer Order Counterparts	
5	Mr. LaluSaben (Part time)	Prof. Binoy Krishna Roy	Applications of Orthonormal Basis Function Models in Some Aspects of Plantwide Process Control	
6	Mr. Jay Prakash Singh	Prof. Binoy Krishna Roy	Development, analyses and applications of various type of new chaotic and hyperchaotic systems	
7	Mr. ManashitaBohra	Prof. Binoy Krishna Roy	Design, Control, Synchronisation and Applications of Fractional-order Chaotic Systems	
8	Mr. Rohit Lorenzo	Dr. Saurabh Chaudhury Design and Simulation of Some Leakage Minimizati Schemes for CMOS VLSI Circuits and Systems		
9	Mr. Joyesh D. Ruikar	Dr. Saurabh Chaudhury & Prof. (late) A. K. Sinha		
10	Mr. Subhojit Dawn	Dr. P K Tiwari Dr. A K Goswami Study and Analysis the Impacts Renewable Power Penetration in Comp Market.		
11	Mr. SadhanGope	Dr. A K Goswami Dr. P K Tiwari	Transmission Congestion Management Considering Wind Farm and Energy Storage System in Competitive Electricity Market.	
12	Mr. Hema Kumar Reddy	Dr. A K Goswami Dr. N B Dev Choudhury	Comprehensive approach for reliability assessment and improvement of electrical distribution systems.	
13	Mr. Suman Sutradhar	Prof. N. B. Dev Choudhury Prof. N. Sinha	Some Studies on Intelligent Algorithms for Optimal Operation of Power System under Conventional and Deregulated Environment	
14	Mr. Subir Datta	Dr. Jyoti Prakash Mishra and Dr. A.K. Roy (Retd. Prof)	Simulation of Grid Connected Speed Sensor-les DFIG-based Wind Energy Conversion System with it Power Quality Improvement	
15	Mr. Abhishek Rajan	Dr. T. Malakar	Solution of Active and Reactive Power Dispatch Using a Meta-Heuristic Exchange Market Algorithm	
16	Mr. Israfil Hussain	Prof. N. Sinha Dr. D. C. Das	Performance Analysis of Automatic Generation Control of Integrated Hybrid Power System based on Renewable Energy Sources/Energy Storage System	
17	Mr. Subhojit Dawn	Dr. Prashant Kumar Tiwari (Supervisor), Dr. Arup Kumar Goswami (Cosupervisor)	Study and Analysis the Impacts of Uncertain Renewable Power Penetration in Competitive Power Market	

1	18	Mr. Sadhan Gope	Dr. Arup Kumar Goswami (Supervisor), Dr. Prashant Kumar Tiwari (Cosupervisor)	Transmission Congestion Management Considering Wind Farm and Energy Storage System in Competitive Electricity Market
1	19	Mr. Chayan Bhattacharjee (Part time)	Prof. Binoy Krishna Roy	Dynamic Power Management and Power Quality Improvement of a Grid Tied Hybrid Distribution System

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1. Name of the Department:-

Electronics & Communication Engineering



1.1 ACADEMIC STAFF

HEAD: Dr. K.L.Baishnab

Name of Faculty members:

Professor	Associate Professor	Assistant Professor
Prof. F. A. Talukdar	Dr. P. K. Paul	Dr. W. Arif
Prof. S. Baishya	Dr. M. Choudhury	Dr. K. Guha
	Mrs. M. Paul	Dr.T. R. Lenka
		Dr. A. Hossain
		Dr. R. K. Karsh
		Mr. G. Prasad
		Dr. T. Khan
		Dr. B. Basu
		Dr. S. K. Tripathi
		Dr. A. Nandi
		Dr. U. Chakraborty
		Dr. K. L. Baishnab
		Dr. R. H. Laskar
		Dr. B. Bhowmick

Visiting Professor (If any): NIL

1.2 DISTINCTION ACHIEVED

a) By Student:

S. R. Routray, PhD Scholar: DST-SERB International Travel Support (ITS) to visit Singapore for 1) attending IEEE NMDC 2017 during 2-4Oct 2017.

b) By Faculty Member:

- 1) Dr. B. Bhowmick won Sir Visvesvaraya Young Faculty Research Fellowship.
- Dr. K. Guha awarded 2nd Prize in Best paper presentation awarded in International conference MICRO 2) 2017 held at Darjeeling, West Bengal, India during 3-4th June 2017.
- Dr. K. Guha delivered as Keynote Speaker in International conference on Signal Processing and 3) Communication Engineering Systems (SPACES - 2018)" in 4th and 5th January, 2018.
- 4) Dr. K. Guha feels proud achievement as member of VLSI team of Electronics and Communication Engineering Department of NIT Silchar for its 1st VLSI chip tape out of "Neural front End Amplifier for Brain Machine Interface" made by indigenous using the SCL Mohali foundry, 180 nm Technology node (January 2018).
- 5) Dr. K. Guha awarded as External Reviewer to assist with the evaluation of proposals for its Competitive Internal Research Award (CIRA) program in Khalifa University of Science & Technology (Abu Dhabi, UAE) in 4th November 2017.
- 6) Dr. K. Guha acted as Co-Convener of CCSN 2017 Conference, 30-31 Dec. 2017.
- Dr. T. R. Lenka has received Sir Visvesvaraya Young Faculty Research Fellowship Award by Ministry of 7) Electronics and Information Technology (MeitY), Govt. of India, 2018 with a funding of 37 Lakhs.
- 8) Dr. T. R. Lenka has received Funding of 2300 USD to conduct IEEE EDS Mini-Colloquium at NIT Silchar.
- 9) Dr. T. R. Lenka has IEEE-EDS Fellowship of 760 USD to attend IEEE-EDS Region-10 Mid-Year Governance Meeting Series at Kochi, India, 20-21May 2017.
- 10) Dr. A. Hossain has elevated to the grade of IEEE Senior Member in June 2017.
- Dr. B. Basu has elevated to the grade of IEEE Senior Member. 11)
- Dr. B. Basu has opened "IEEE Antennas and Propagation Society Student Branch Chapter" in NIT Silchar. Chapter Advisor: Dr. Banani Basu.
- Dr. B. Basu has opened "IEEE Women in Engineering (WIE) Student Branch Affinity Group" in NIT 13) Silchar. Group Advisor: Dr. Banani Basu.
- Dr. S K Tripathy has received INSA Visiting Scientist Fellowship.

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) **Conducted by Faculty Member**

SI. No.	Name(s) of the Coordinator of Faculty	Title	Funding Agency	Duration
1	Dr. K. L. Baishnab	5 Days workshop VLSI Design using Cadence in Nov, 2017	Self- Financed	5 days
2	Dr. T. R. Lenka	IEEE-EDS Distinguished Lecture on "Compact Modeling of GaN HEMTs for High Frequency and High Power Application" on 08 Nov 2017 by Prof. Y. S Chauhan, IIT Kanpur	IEEE -EDS	1 Day

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3	Dr. T. R. Lenka	IEEE-EDS	Distinguished	Lecture	on	"Research	IEEE -EDS	1 Day	
		Methodology	in Nanoscience	e" on 20 D	ec 20	17 by Prof.			
		Vijay K. Arora	a, USA.						ĺ

b) Participated by Faculty Member

SI.	Name of	Details of the Program	Organizing Institute
No.	Faculty		
1	Prof. S.	Communication Backbone Architecture (DiCoBA) with	IIT Kharagpur
	Baishya	Prototype Development, in collaboration with IIT Kharagpur, DeitY	
2	Dr. K. L. Baishnab	3rd ZoPP Workshop under SMDP-C2SD, Oct-2017	IIT Guwahati
3	Dr. K. Guha	National PARAM Shavak User Summit at GOA during 15-16 Feb 2018.	C-DAC, Pune
4	Dr. K. Guha	Prof. Lotfi A. Zadeh memorial 6th international conference on 'Computing, Communication and Sensor Network", CCSN-2017, in Kolkata, India (30-31 Dec 2017).	International Association of Science, Technology and Management
5	Dr. K. Guha Micro 2017 : 4th International Conference on Microelectric Circuits and Systems, Micro2017, during 3rd and 4th 2017 at Darjeeling City, West Bengal, India.		International Association of Science, Technology and Management
6	Dr. K. Guha	12th IEEE Nanotechnology Materials and Devices Conference Singapore, 2nd-4th October 2017.	IEEE Nano Technology Council
7	Dr S. K.	3rd International Conference on Photonics Solutions (ICPS	Electrical Engineering
	Tripathy	2017), Thailand	Academic Association
			(Thailand) (EEAAT)

1.4 RESEARCH DEVELOPMENT

a) Ph.D Programme (Specializations):

SI. No.	Faculty Name	Specializations		
1	Prof. S. Baishya	Solid State Device Modeling and Simulation, Electronic Circuits, VLSI, and MEMS		
2	Dr. M. Choudhury	Machine Learning, Nanotechnology		
3.	Dr. R. H. Laskar	Image processing, Speech Processing, Signal processing		
4.	Dr. B. Basu	Design of Antenna and Metamaterials Structure Soft Computing Techniques in Antenna Array Optimization		
5.	Dr. A. Nandi	Wireless Sensor Networks, 4G and 5GCommunication, Design of Antenna and Metamaterials Structure		

b) Ph.D Produced/Ongoing (in number):

Completed	eted Submitted	
10	03	47

c) Research Lab/Workshop:

SI. No.	Name of Lab/Workshop	Purpose/Linkage to an existing/new programme	
1	TCAD Lab	To perform simulation of device/circuits.	
2	Computer Vision Lab (Room no EC 17)	To accommodate increased number of research scholars in the relevant area and for running the BRNS, BARC sponsore project titled "Development of Prototype Video Surveillance System Using Face Invariant Face Recognition System"	
3	Image Processing Lab	Research	
5	Solar cell fabrication Laboratory	To fabricate new solar devices	
6	Advanced RF Systems Laboratory	SERB project "Design of Reconfigurable Defected Ground Structure Resonator for Wireless Application"	

Ongoing/Completed Sponsored Research Project: d)

SI. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1	Hetero-Junction Tunnel FETs: Characterization, Modeling, and Simulation of Electrical Parameters	Prof. S. Baishya	NCERT	8.83	2 years
2	Development of National Disaster Spectrum (NDS) and Disaster Communication Backbone Architecture (DiCoBA) with Prototype Development, in collaboration with IIT Kharagpur, DeitY	Prof. S. Baishya	DeitY	110	3 years
3	Special Manpower Development Program for Chips to System Design(SMDP-C2SD)	Dr. K.L. Baishnab	MeitY	0.961	5 years
4	Visvesvaraya PhD Scheme	Dr. K. L. Baishnab	MeitY	3.10	5 years
5	Development of Speech based Multi- Level Person Authentication System (Consortium Project along with IIT Guwahati and NEHU, Shillong)	PI: Dr. R. H. Laskar, Co-PI: Mrs. U. Baruah	DeitY, Govt. of India	57.3	4 Years (2012 – 2016)
6	Development of Prototype Video Surveillance System Using Face Invariant Face Recognition System	PI: Prof. F. A. Talukdar, Co-PI: Dr. R. H. Laskar	BRNS, BARC	24.9	3 years (2015- 2018)
7	Development of EBG –structures printed antenna for ultra wideband communication and futuristic modelling for prediction of performance parameter using computational intelligence technique.	PI: Dr. T. Khan, Co-PI: Dr. R. H. Laskar	DST-SERB	15	3 years (2016 - 2019)
8	Hetero-Junction Tunnel FETs: Characterization, Modelling and Simulation of Electrical parameters	PI: Prof. S. Baishya Co-I : Dr. B.	CSIR, Extramural Research	11.54Lakhs	2 years

		Bhowmick	Division.		
9	IEDC 2017 Project:Heart Attack Detection and Response system	Dr. B. Bhowmick	DST	1 lakh	1Year
10	Chips to System Design- Special Manpower Development Project (C2SD-SMDP) in IIT Madras cluster	Dr. K. L. Baishnab Dr. K. Guha	MeitY, Govt. of India	160 approx.	5 Years (2015 – 2020)
11	Development of EBG-Structured Printed Antennas for Ultrawideband Communication and Futuristic Modeling for Prediction of Performance Parameters using Computational Intelligence Techniques	Dr. T. Khan (Principal Investigator)	SERB, DST, Govt. of India	16, 27, 560	2017-2020
12	Development of a Prototype of Disabled- Friendly Automatic Virtual Text-Entry Keyboard Interface System under Practical Environmental Conditions", under IMPRINT-2 scheme of SERB, DST, Govt of India (2018-2021)	Dr. T. Khan (Co-Principal Investigator)	IMPRINT II, SERB, DST, Govt of India	116,60,527	2018-2021
13	Effect of metal doped TiO ₂ on photoanode and lead free organic-inorganic metal halide perovskite on photovoltaic performance of perovskite solar cell: experimental and theoretical approach	Dr. S. K. Tripathy	SERB	42.38	2017-2020
14	Design of Reconfigurable Defected Ground Structure Resonator for Wireless Application	Dr. A. Nandi	SERB, Gol	23.4	3 Years

e) Research Paper Reviewed

SI.	Faculty Name	Journal Name	No. of	Year
No.			Papers	
1	Prof. S. Baishya	Int. Journal of Electronics	4	2018
2	Dr. K. L. Baishnab	Journal Of Information Science And	2	2018
		Engineering		
		Microsystem TechnologiesMicro- and	8	2018
		Nanosystems Information Storage and		
		Processing Systems		
		Journal of Information and Optimization	4	2017
		Sciences, JIOS, Taylor and Francis		
		Journal of Low Power Electronics	1	2017
		Journal of Current Trends in Science and	1	2017
		Technology		
		International Journal of Computer Science and	1	2017
		Information Security		
		Journal of Information Science and engineering	2	2018
3	Dr. R. H. Laskar	IET Signal Processing	2	2017
		IEEE Access	1	2018
4	Dr. B.Bhowmick	IET Circuits, Devices and Systems	1	2018
		Applied Physics D	1	2018
		Journal of Nano Opto Electronics	2	2017, 2018
		IET Micro nano letters	2	2018
		International Journal of Electroincs	1	2018
5	Dr. Koushik Guha	Microsystem Technologies, Springer	08	April 2017 –
				March 2018
		International Journal of Modelling and	02	April 2017 –
		Simulation		March 2018

		Journal of Nanoelectronics and	02	April 2017 –
		Optoelectronics		March 2018
6	Dr. T. R. Lenka	AEU-International Journal of Electronics and Communications (Elsevier)	02	2017-2018
		International Journal of Numerical Modelling: Electronic Networks, Devices and Fields (Wiley)	02	2017-2018
		Solid State Electronics (Elsevier)	01	2017-2018
		Superlattices and Microstructures (Elsevier)	02	2017-2018
		Semiconductor Science Technology (IOP Science)	01	2017-2018
		IEEE Transactions on Industrial Electronics	01	2018
7	Dr. A. Hossain	IEEE Sensors Journal	2	2017-18
		IEEE Communications Letters	1	2017-18
		IEEE Transactions on Vehicular Technology	1	2017-18
		Microsystem Technologies, Springer	1	2017-18
8	Dr. R. K. Karsh	Journal of Electronic Imaging	2	2018
		Journal of Applied Remote Sensing	1	2018
		Journal of Supercomputing	1	2018
		Journal of ICT Research and Applications	1	2018
		IEEE Access	1	2018
9	Dr S. K. Tripathy	International Journal of Modern Physics	01	2018

f) **Chairing of Technical Section**

SI. No.	Faculty Name	Details	
1	Dr. K. Guha	Session chair in Micro-2017, 4th International Conference on	
		Microelectronics, Circuits & Systems, June, 3rd - 4th, 2017,	
		Darjeeling, West Bengal, India	
2	Dr. K. Guha	Session chair in International conference on Signal Processing and	
		Communication Engineering Systems (SPACES - 2018)" in 4 th and	
		5 th January, 2018 at KL University Hyderabad.	

1.5 PUBLICATION

a) International Journal(s):

- R. Das and S. Baishya, "Controlling fixed trap charge effect in FinFET using heterodielectric BOX," in 1. Electronics Letters, vol. 54, no. 4, pp. 239-241, 22 2 2018.
- Rajesh Saha, Brinda Bhowmick, and S. Baishya, "Quantum Analytical Modeling of Inversion Charge 2. and Threshold Voltage in Modified Bi-Level FinFET (BL-FinFET)," ECS Journal of Solid State Science and Technology, vol. 7, no. 2, pp. Q8-Q15, 2018.
- Rajesh Saha, Brinda Bhowmick, and S. Baishya, "A 3D Statistical Simulation Study of Titanium Metal 3. Gate WFV on Electrical Parameters in n-channel Ge step-FinFET," Applied Physics A - Materials Science & Processing, vol. 124, 96(1-11), 2018.
- 4. N. P. Maity, Reshmi Maity, and S. Baishya, "A Tunneling Current Model with Realistic Barrier for Ultra Thin High-k Dielectric ZrO2 Material Based MOS Devices," Silicon, vol. 10, no. 4, pp. 1645-1652, December 2017.
- S. Baishya, Debarun Borthakur, Richik Kashyap, and Amitabh Chatterjee, "A High Precision Lumped 5. Parameter Model for Piezoelectric Energy Harvesters," IEEE Sensors Journal, vol. 17, no. 24, pp. 8350-8355, December 2017.

- 6. Achinta Baidya, S. Baishya, and T. R. Lenka, "Impact of Thin High-K Dielectrics and Gate Metals on RF Characteristics of 3D Double Gate Junctionless Transistor," Materials Science in Semiconductor Processing, vol. 71, pp. 413-420, Nov. 2017.
- 7. Reshmi Maity, N. P. Maity, and S. Baishya, "Silicon Nitride Based Electro-Mechanical Model of Capacitive Micromachined Ultrasonic Transducers," Far East Journal of Electronics and Communications, vol. 17, no. 4, pp. 749-760, 2017.
- 8. N. P. Maity, Reshmi Maity, and S. Baishya, "Voltage and Oxide Thickness Dependent Tunneling Current Density and Tunnel Resistivity Model: Application to High-k Material HfO2 Based MOS Devices," Superlattices and Microstructures, vol. 111, pp. 628-641, 2017.
- 9. Rajesh Saha, Brinda Bhowmick, and S. Baishya, "Si and Ge step-FinFETs: Work function variability, optimization and electrical parameters," Superlattices and Microstructures, vol. 107, pp. 5-16, 2017.
- 10. Saurav Roy, Amitabh Chatterjee, Dheeraj Kumar Sinha, Rimma Pirogova, and S. Baishya, "Two Dimensional Analytical Modelling of Surface Potential and Threshold Voltage for Vertical Super-Thin Body Field Effect Transistor," IEEE Transactions on Electron Devices, vol. 84, no. 5, pp. 2106-2112, May 2017.
- 11. N. P. Maity, Reshmi Maity, and S. Baishya, "Ultra Thin Body Partial Silicon-on-Insulator MOSFET with Suppressed Floating Body Effect: A Simulation Study," Journal of Nanoelectronics and Optoelectronics, vol. 12, no. 5, pp. 472-479, May 2017.
- 12. Reshmi Maity, N. P. Maity, R. K. Thapa, and S. Baishya, "An Improved Analytical and Finite Element Method Model of Nanoelectromechanical System Based Micromachined Ultrasonic Transducers," Microsystem Technologies, vol. 23, pp. 2163-2173, June 2017.
- 13. Reshmi Maity, N. P. Maity, and S. Baishya, "Circular Membrane Approximation Model with the Effect of the Finiteness of the Electrode's Diameter of MEMS Capacitive Micromachined Ultrasonic Transducers," Microsystem Technologies, vol. 23, no. 8, pp. 3513–3524, Aug. 2017.
- N. P. Maity, Reshmi Maity, R. K. Thapa, and S. Baishya, "Modeling and Simulation of Tunneling Current Density for Ultra Thin MOS Devices," Applied Mechanics and Materials, vol. 860, pp. 30-34, 2017
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- Ashim Kumar Biswas, Sourav Roy. U. Chakraborty: 'Wide Band Microstrip Antenna integrated with 91. Complementary Split Ring Resonator (CSRR) for WLAN and C Band Applications', IEEE International Conference on Computational Intelligence and Computing Research (ICCIC), 14-16, DEC. 2017. Coimbatore, India.
- Ashim Kumar Biswas, AparnaKundu. U. Chakraborty: 'A Simple Wide Band Microstrip Loop Antenna 92. with Modified Ground Plane for Mobile Applications', IEEE International Conference on Computational Intelligence and Computing Research (ICCIC), 14-16, DEC. 2017, Coimbatore, India.
- 93. U. Chakraborty, Ashim Kumar Biswas, AparnaKundu, Suman Kumar Ram: 'A Wide Band Microstrip Antenna for WLAN, C Band uplink and Wimax Applications', IEEE International Conference on Computational Intelligence and Computing Research (ICCIC), 14-16, DEC. 2017, Coimbatore, India.
- 94. Suman Kumar Ram, Sourav Roy, U. Chakraborty: 'A ladder loop microstrip antenna integrated with rectangular DRA for lower X band Application', International Conference AEMC 2017 MIT(T), Aurangabad and the Kolkata Chapter of IEEE AP/MTT, India.
- Sourav Roy, U. Chakraborty: 'Dual Wide band Microstrip Antenna for WLAN, C uplink, ITU and X Band 95. Applications', International Conference AEMC 2017 MIT(T), Aurangabad and the Kolkata Chapter of IEEE AP/MTT, India.

d) National Conference(s): NIL

Book/Chapter: e)

- 1. Madhuchhanda Choudhury, Synthesis of quantum dots and their Applications As Nano Gas Sensors, Lambert Academic Publisher, ISBN;978-620-2-07028-7.
- 2. B.Bhowmick, R.Goswami, "Band gap mdulated Tunnel FET", as book chapter in "Field Effect Transistors - Materials, Fabrication and Application" Publisher: InTech - open science | open minds (DOI: 10.5772/intechopen.76098)
- R.Goswami, B.Bhowmick, "DIELECTRIC MODULATED TFETs AS LABEL-FREE BIOSENSORS" as 3. book chapter in "Field Effect Transistors - Materials, Fabrication and Application" Publisher: InTech open science | open minds (doi.org/10.5772/intechopen.76000).
- 4. Koushik Guha, Ananta Borah, Naushad Manzoor Laskar, "Noise in RF MEMS Switch - Modelling & Analysis" LAP Lambert Academic Publishing, Germany, 2017, pages: 116.

1.6 **CONSULTANCY SERVICES: NIL**

1.7 **MAJOR EQUIPMENT ACQUIRED**

- 1. Electrospinning machine
- 2. Ultrasonic spray pyrolysis
- 3. Cyclic voltmetery

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- 4. Glove box
- 5. Vector Network Analyzer (5 kHz to 15 GHz)

1.8 PATENT

Details	Year
Indian Patent filed and Published :No.201731000942	Published: 31/08/2018

1.9 VISITS TO ABROAD

SI. No.	Name of the Faculty	Name of the Conference/Programme	Place	Date
1	Dr. R. H. Laskar	2017 IEEE TENCON – IEEE Region Ten Conference	Malaysia	5-8 Nov 2017
2	Dr. K. Guha	12th IEEE Nanotechnology Materials and Devices Conference Singapore, 2nd- 4th October 2017	Singapore	2-4 October 2017
3	Dr. T. R. Lenka	5thJoint International EUROSOI Workshop and International Conference on Ultimate Integration on Silicon (EUROSOI-ULIS) 2018	Granada, Spain	19-21 Mar 2018
4	Dr. T. R. Lenka	12th IEEE Nanotechnology Materials and Devices Conference (NMDC 2017)	Singapore	2-4 Oct 2017
5	Dr. R. K. Karsh	TENCON 2017 IEEE	Penang (Malaysia)	5-8 Nov. 2017
6	Mr. G. Prasad	International Conference on Personal, Indoor, and Mobile Radio Communications (PIMRC), IEEE	Montreal, QC, Canada	8-13 Oct. 2017
7	Dr. B. Basu	IEEE Asia Pacific Microwave Conference (APMC 2017)	Kuala Lumpur, Malasyia	13th – 16th Nov, 2017
8	Dr S. K. Tripathy	3rd International Conference on Photonics Solutions (ICPS 2017), Thailand	Pattaya	8-10 Nov 2017
9	Dr. A. Nandi	IEEE Asia Pacific Microwave Conference (APMC 2017)	Kuala Lumpur, Malasyia	13th – 16th Nov, 2017

1.10 M.Tech. / M.Sc. (Theses/Project)

SI. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project	
1	D. Borthakur	Prof. S. Baishya	 High Precision Lumped Parameter Model for Piezoelectric Energy Harvesters 	
2	K. Vanialawmpuia	Dr. M. Choudhury	Optimization of Electrical Parameters in single Gate and double SiGe channel nMOSFETs and their application in digital inverter.	
3	D. Boruah	Dr. K. L. Baishnab		
4	S. K. Sahu	Prof. F. A. Talukar & Dr. R. H. Laskar	Design and analysis of two port MIMO Antennas with Wideband Isolation	

5	W. V. Devi	Dr. B. Bhowmick	A Novel Dual Metal Gate N+ Pocket Doped VTFET and JL-TFET	
6	U. Pandey	Dr. K. Guha and Dr. K. L. Baishnab	Ferroelectric FET as Low Power Device	
7	R. Paswan	Dr. T. R. Lenka	Design and Simulation of AlGaAs/GaAs-HEMT as a Biosensor	
8	S. Kumar	Dr. T. Khan	Design and Development of Triple Band EBG- Loaded UWB Antennas	
9	S. Kumari	Dr. T. Khan	Wideband Slotted Antenna using Graphene Technology for Terahertz Communication	
10	C. Roy	Dr. T. Khan	SVM Modeling for Computing Performance Parameters of Microstrip Antennas	
11	Ms. P. Saikia	Dr. B. Basu	Design of Frequency and Polarization Reconfigurable Antenna With and without Artificial Magnetic Conductor	
12	Mr. K. Lama	Dr S. K. Tripathy	Investigation of Structural & Optical Properties of TiO2 Nanowire for Photodetector Application	
13	Mr. R. K. Gupta	Dr. A. Nandi	Lifetime Enhancement of Load Balancing of Heterogeneous WSNs Using Optimization Techniques	
14	Mr. S. K. Ram	Dr. U. Chakraborty	Design and analysis on Printed and Dielectric ResonatorAntennas for C and X band RADAR Applications	

1.11 Ph.D. Theses

SI.	Name of the	Name of the	Title of the Thesis
No.	Scholar	Supervisor	
1	R. Saha	Prof. S. Baishya	Modeling and Simulation of Electrical Parameters in FinFET Structures and the Effects of Statistical Variability of Metal Gate Workfunction
2	A. Roy	Dr. R. H. Laskar	Design and Implementation of Various Filtering Techniques for Removal of Impulse Noise from Color Images
3	S. Shuleenda Devi	Dr. R. H. Laskar	Computer Assisted Malaria Infected Erythrocyte Classification and Life-Cycle Stages Analysis using Microscopic Images of Thin Blood Smears
4	R. K. Karsh	Dr. R. H. Laskar	Robust and Secure Image Hashing Techniques for Content Authentication
5	R. Goswami	Dr. B. Bhowmick	Gate Engineered and Bandgap Engineered TFETs: simulation, modeling and application
6	R. Saha	Prof S. Baishya (Main Guide) Dr. B. Bhowmick (Co Guide)	Modeling and Simulation of Electrical Parameters in FINFET Structures and the Effects of Statistical Variability of Metal Gate Workfunction
7	B. P. Kumar	Dr. B. Bhowmick	Modeling, Simulation and Optimization of Hetero Junction Schottky Barrier FET and RF/linearity Performances for Low Power applications
8	B. Shougaijam,	Dr. T. R. Lenka	Growth and Characterization of TiO2 Nanowires and Metal Nanoparticle Assisted TiO2 Nanowires for Opto- Nanoelectronic Applications
9	A. Baidya	Dr. T. R. Lenka	Circuit Performance Analysis of Double Gate Junctionless Transistor with High-k Dielectrics and Metal Gates
10	S. Peddakrishna	Dr. T. Khan	Design and Development of Compact EBG and FSS Structures for Printed Antenna Applications

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11	S. K. K. Dash	Dr. T. Khan	Design and Development of Dielectric Resonator Antennas with Improved Performances for Wireless Communication
12	Mr. J. Kumar	Dr. B. Basu and Prof. F. A. Talukdar	Frequency Reconfigurable Antennas Printed on Different Substrates Using Copper and Graphene-based Materials
13	Ms. Ruchi (Awarded degree from Thapar University, Patiala, Punjab)	Dr. B. Basu	Synthesis and Optimization of Time Modulated Linear Array
14	D. Dash	Dr S. K. Tripathy (Co-Supervisor)	Some Studies of Anatase and Cubic Titanium Dioxide using DFT Approach

1. Name of the Department:-

Computer Science & Engineering



1.1 Academic Staff

HEAD: Dr. Arup Bhattacharjee

Professor	Associate Professor	Assistant Professor
Prof. Sivaji Bandyopadhyay, Director	Dr. Biswajit Purkayastha	Dr. Arup Bhattacharjee
		Mrs. Ujawala Barua
		Dr. Pinki Roy
		Mr. Prabhakar Sharma Neog
		Dr. Samir Kumar Borgohain
		Mr. Biswanath Dey
		Mr. Pantha Kanti Nath
		Dr. Saroj Kumar Biswas
		Dr. Dalton Thounaojam
		Dr. Badal Soni
		Mr. Ripon Patgiri
		Mr. Umakantha Majhi
		Dr. Shyamoshree Pal
		Dr. Shyamapada Murkherjee

Visiting Professor (If any):

- 1.2 Distinction Achieved
- By Student: a)

b) By Faculty Member:

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) Conducted by Faculty Member:

SI. No.	Name(s) of Coordinator	Title	Funding Agency	Duration
1	Shyamapada Mukherjee	Seminar on Data Science	TEQIP III NIT Silchar	25 th January, 2018

b) Participated by Faculty Member

SI. No.	Name of Faculty	Details of the Program	Organizing Institute
1	Shyamapada Mukherjee	ICoIAS'2018 28 th Feb-2March 2018	NTU Singapore
2	Shyamapada Mukherjee	ICECA 2018 28 th -31 st March 2018	RVS Technical Campus, Coimbatore, India

1.4 Research Development

a) Ph.D. Programme (Specializations): All areas of Computer Science and Engg.

b) Ph.D. Produced/Ongoing (in number): Ongoing-23

SI. No	Name of the Supervisor	Specializations	Completed	Submitted	Ongoing
1	Dr. A. Bhattacharjee	Computer Networks	-	-	3
2	Dr. Biswajit Purkayastha	Soft Computing	-	-	2
3	Dr. Pinki Roy	Speech Processing	-	-	3
4	Dr. Samir Kumar Borgohain	Natural Language Processing	-	-	3
5	Dr. Saroj Kumar Biswas	Soft Computing, Machine Learning	-	-	3
6	Dr. Dalton Thounaojam	Soft Computing, Machine Learning	-	-	3
7	Dr. Shyamoshree Pal	Computational Geometry	-	-	3

8	Dr. Shyamapada Murkherjee	VLSI	-	-	3	
						i

c) Research Lab/ Workshop: NIL

d) **Ongoing/Completed Sponsored Research Project:**

SI. No.	Project Title Principal Investigator		Funding Agency	Cost in lakhs	Duration
1	NLP	Mr. Samir Kr. Borgohain	IBM Shared University	10000USD	2 years
2	Analysis of Brain Waves and development of intelligent model for Silent Speech Recognition	Dr. Saroj Biswas	DietY	25 lakhs	2 years
3	Implementation of a Rainfall forecasting model for Silchar weather Station	Dr. Saroj Biswas	NIT Silchar (Under STIS Scheme)	4 lakhs	2 years
4	Development of Speech based Multi- level Authentication System	Mrs. U. Baruah with IIT Guwahati(Co-PI)	DietY	57.93 lakhs	3years
5	Development of android child e- health care system for N-E Region using fuzzy logic	Dr. Saroj Biswas(Co- PI)	NIT Silchar (Under STIS Scheme)	4 lakhs	2years

e) **Research Paper Reviewed**

SI. No.	Faculty Name	Journal Name	No. of Paper	Year
1	Dr.Saroj Kr. Biswas	International Journal on Semantic Web and Information Systems	1	2017
2	Dr.Saroj Kr. Biswas	IEEE Transaction on Systems, Man and Cybernetics: Systems	1	2007
3	Dr.Saroj Kr. Biswas	Applied computing and informatics	1	2018
4	Dr.Saroj Kr. Biswas	Neuro Computing	1	2018
5	Ripon Patgiri	IET Software	1	2018
6	Ripon Patgiri	KSII Transactions on Internet and Information Systems	1	2018
7	Ripon Patgiri	EAI Endorsed Transactions on Energy Web and Information Technologies	2	2018
8	Ripon Patgiri	Electronics Letters	1	2018
9	Ripon Patgiri	EAI Endorsed Transactions on Scalable Information Systems	1	2018

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10	Ripon Patgiri	EAI Endorsed Transactions on Creative Technologies	1	2018
11	Ripon Patgiri	EAI Endorsed Transactions on Security and Safety	1	2018
12	Shyamapada Mukherjee	IEEE TCAD	1	2018
13	Dr. Badal Soni	International Journal of Computer vision and Image Processing	1	2018
14	Dr. Badal Soni	International Journal of Image and Graphics	1	2018

f) Chairing of Technical Section

SI. No.	Faculty Name	Details
1	Dr S K Biswas	Session Chair 20^{th} and 21^{st} December, 2017 International Conference on Cognitive Informatics & Soft Computing (CISC-2017), Hyderabad, Advances in Intelligent Systems and Computing, AISC Series Springer
2	Ripon Patgiri	6th International Conference on Advanced Computing, Networking, and Informatics, 04-06 June 2017, NIT Silchar.
3	Dr. Pinki Roy	Session Chair on 6th International Conference on Advanced Computing, Networking, and Informatics (ICACNI 2018)

1.5 PUBLICATION

a. International Journal(s):

- 1) Manomita Chakraborty, Saroj Kr. Biswas, Biswajit Purkayastha, February 2018, Recursive Rule Extraction from Neural Network using Reverse Engineering Technique, New Generation Computing, DOI: 10.1007/s00354-018-0031-9, Springer,
- 2) Saroj Kr. Biswas, Monali Bordoloi, Shreya Jecob, December 2017, A Graph Based Keyword Extraction Model using Collective Node Weight, Expert Systems with Applications, Vol. 97, pp. 51-59, Elsevier.
- 3) Saroj Kr. Biswas, Manomita Chakraborty, Biswajit Purakayastha, 2017, Rule Extraction from Neural Network using Classified and Misclassified Data: International Journal on Artificial Intelligence Tools, Vol. 26, No. 3, World Scientific
- 4) Saroj Kr. Biswas, Manomita Chakraborty, Biswajit Purakayastha, February 2018 A Rule generation Algorithm from Neural Network using Classified and Misclassified Data: International Journal of Bio-Inspired Computation, Vol. 11 No.1, Inderscience.
- 5) Debashree Devi, Saroj Kr. Biswas, Biswajit Purakayastha, 2017, Redundancy-Driven Modified Tomek Link Based Undersampling: A Solution To Class Imbalance, Pattern Recognition Letters, Vol. 93, Elsevier
- 6) Heisnam Rohen Singh, Saroj Kr. Biswas, Biswajit Purakayastha, 2017 A Neuro-fuzzy Classification Technique using Dynamic Clustering and GSS Rule Generation, Journal of Computational and Applied Mathematics, vol. 309, Elsevier.

- Saroj Kr. Biswas, Manomita Chakraborty, Heisnam Rohen Singh, Debashree Devi, Biswajit 7) Purkayastha, Akhil Kr. Das, 2017, Hybrid Case Based Reasoning System by Cost Sensitive Neural Network for Classification, Soft computing, vol. 21, Issue 24, Springer.
- Ripon Patoiri, Sabuzima Navak, and Samir Kumar Borgohain, "Preventing DDoS using Bloom Filter: A 8) Survey". EAI Endorsed Transaction on Scalable Information Systems. DOI: 10.4108/eai.19-6-2018.155865.
- Badal Soni, Pradip K. Das, Dalton Meitei Thounaojam, "Keypoints based enhanced multiple copymove 9) forgeries detection system using density-based spatial clustering of application with noise clustering algorithm", Published in IET Journal of Image Processing, 2018, DOI: 10.1049/iet-ipr.2018.5576, Print ISSN 1751-9659, Online ISSN 1751-9667.
- Badal Soni, Pradip K. Das, Dalton Meitei Thounaojam, "CMFD: A detailed review of block based and 10) key feature based techniques in image copy-move forgery detection," IET Journal of Image Processing, vol. 12, issue 2, February 2018, pp. 167-178 DOI: 10.1049/iet-ipr.2017.0441. (SCI)
- 11) Badal Soni, Pradip K. Das, and Dalton Meitei Thounaojam, "Dual System for Copy-move Forgery Detection using Block-based LBP-HF and FWHT Features," Engineering Letters, vol. 26, no.1, pp. 171-180, February 2018.
- Saroj Kumar Biswas, Manomita Chakraborty, Biswajit Purkayastha, Pinki Roy and Dalton Meitei 12) Thounaojamv, 2017, "Rule Extraction from training data using Neural Network," International Journal on Artificial Intelligence Tools, vol. 26, no. 3, (SCIE)
- Dalton Meitei Thounaojam, Vivek Singh Bhadouria, Sudipta Roy and Kh. Manglem Singh, 2017, "Shot 13) boundary detection using perceptual and semantic information," International Journal of Multimedia Information Retrieval, vol. 6, no. 2, pp. 167-174. (Scopus)
- Chitralekha C., MJ Sanada Kh., Y Jina Chanu, Neelima Arambam, Dalton Meitei, P Roji Chanu, Kh 14) Manglem Singh, February 2018 "A Copyright Protection Scheme for Videos Based on the SIFT," Iranian Journal of Science and Technology, Transactions of Electrical Engineering, Vol.42, No.1, pp. 107-121. (SCIE)
- 15) S.Namasudra and P. Roy, 2017 "Time saving protocol for data accessing in cloud computing," IET Communications, Volume: 11, Issue: 10, IEEE Xplore DOI: 10.1049/iet-com.2016.0777 (SCI Indexed).
- S.Namasudra and P. Roy, 2017 "A new table based protocol for data accessing in cloud computing," 16) Journal of Information Science and Engineering, vol. 33, no. 3, pp. 585-609, 2017. DOI: 10.6688/JISE.2017.33.3.1 (SCIE Indexed).
- Saswati Debnath and Pinki Roy, 2017, "Study of Speech Enabled Healthcare Technology", 17) International Journal of Medical Engineering and Informatics (IJMEI), Inderscience, (Scopus indexed) (In press).

National Journal(s): NIL b.

International Conference(s): C.

- Monali Bordoloi, Dr. S. K. Biswas, E- Commerce Sentiment Analysis using Graph Based Approach, 1) International Conference on Inventive Computing and Informatics (ICICI 2017), Coimbatore.
- Monali Bordoloi, Dr. S. K. Biswas, Graph Based Sentiment Analysis Model for E- Commerce websites' 2) data, International Conference on Cognitive Informatics & Soft Computing (CISC-2017), Hyderabad.
- Akanksha Goel, Manomita Chakraborty, Saroj Kr. Biswas, The role of social media in Crisis situation 3) management: A survey, International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC 2017), Priyadarshini Engineering College, Vellore

- 4) Heisnam Rohen Singh, Dr. Saroj Kr Biswas, Dr. Biswajit Purkayastha, A Neuro-fuzzy Classification system using Dynamic Clustering, MISP-2017 International Conference On Machine Intelligence And Signal Processing IIT Indore,
- 5) Saroj Kr. Biswas, Keyword Extraction from Tweets using Weighted Graph, International Conference on Cognitive Informatics & Soft Computing (CISC-2017), Hyderabad.
- 6) Saroj Biswas, Subhasish Chowdhury, Manomita Chakraborty and Biswajit Purkayastha Biswajit Purkayastha: A Medical Expert System to Identify Major Factor of Diseases using P-Rules" submitted to ICoIAS'2018, NTU Singapore.
- 7) Akanksha Goel, Manomita Chakraborty, Saroj Kr. Biswas, A Survey on Crisis Management using Social Media, IEMIS2018, Kolkata.
- 8) Ripon Patgiri, Sabuzima Nayak, Dipayan Dev, and Samir Kumar Borgohain, "Dr. Hadoop Cures Inmemory Data Replication System", 6th International Conference of Advanced Computing, Networking and Informatics, to be held on 4-6th June 2018, Assam, India (Accepted).
- 9) Ripon Patgiri, Samir Kumar Borgohain, and Arup Bhattacharjee, "rFilter: A Scalable and Space-efficient Membership Filter", Fifth International Conference on Signal Processing & Integrated Networks (SPIN), 22-25 February, 2018, Noida, UP, India, DOI: 10.1109/SPIN.2018.8474044.
- 10) Ripon Patgiri, Sajid Hussain, and Aditya Nongmeikapam, "Airline Delay Analysis and Prediction", 5th EAI International Conference on Big data and Cloud Computing Challenges, March 8–9, 2018, VIT, Chennai (In press).
- 11) Ripon Patgiri, and Rajdeep Das, "rTuner: A Performance Enhancement of MapReduce Job", The 10th International Conference on Computer Modeling and Simulation (ICCMS), Pages 176-183, Jan. 08-10, 2017, Sydney, Australia, ACM, doi: 10.1145/3177457.3191710.
- 12) Ripon Patgiri, Samir Kumar Borgohan, and Shyamosree Pal, "Elastica: A Large Scale Elastic Array Data Structure", 8th edition, 2018 International Conference on Computer Communication and Informatics (ICCCI -2018), Jan. 04 06, 2018, Coimbatore, India, IEEE, DOI: 10.1109/ICCCI.2018.8441469.
- 13) Ripon Patgiri, Sabuzima Nayak, and Samir Kumar Borgohain, "Big Biomedical Data Engineering", 9th International Conference on Advanced Computing, Chennai, India, IEEE (In-press).
- 14) S. Purkayastha and S. Mukherjee, "Lookahead legalization based global placement for heterogeneous FPGAs," 2017 7th International Symposium on Embedded Computing and System Design (ISED), Durgapur, India, 2017, pp. 1-5.
- 15) S. Kundu, S. Roy and S. Mukherjee, "K-nearest neighbour (KNN) approach using SAT based technique for rectilinear steiner tree construction," 2017 7th International Symposium on Embedded Computing and System Design (ISED), Durgapur, India, 2017, pp. 1-5.
- Prasun Datta and Shyamapada Mukherjee, Global Placement for Large-scale Mixed-size Design VLSI Circuits using Plant Model.2nd International conference on Electronics, Communication and Aerospace Technology (ICECA 2018), IEEE, 29th-31th March 2018, Coimbatore, Page s: 1577 1581.
- 17) Prasun Datta and Shyamapada Mukherjee, GPSAT: A SAT based Global Placement for Large Scale Mixed-size Designs. International Conference on Intelligent Autonomus Systems (ICIAS 2018), IEEE, SCOPUS, 1st-3rd March, Singapore, 2018, pp. 77-81.
- 18) Badal Soni, Pradip K. Das, Dalton Meitei Thounaojam, "Copy-Move Tampering Detection based on Local Binary Pattern Histogram Fourier Feature," International Conference on Computer and Communication Technology, (7th ICCCT-2017), MNNIT Allahabad, India. Published in ACM Digital Library, (ISBN: 978-1-4503-5324-3), DOI: 10.1145/3154979.3155001.
- 19) Badal Soni, Pradip K. Das, Dalton Meitei Thounaojam, "Blur Invariant Block based Copy-Move Forgery Detection Technique using FWHT Features," International Conference on Watermarking and Image Processing (ICWIP-2017), 6-8 Sept 2017, Paris, France, Published in ACM Digital Library, DOI: 10.1145/3150978.3150987.

- 20) Badal Soni, Pradip K. Das, Dalton Meitei Thounaojam, "Improved Block-based Technique using SURF and FAST Keypoints Matching for Copy-Move Attack Detection," IEEE 5th International Conference on Signal Processing and Integrated Networks, (SPIN -2018), February 2018, New Delhi, India.
- Badal Soni, Pradip K. Das. Dalton Meitei Thounaoiam, "multiCMFD: fast and efficient system for 21) multiple copy-move forgeries detection in image." International Conference on Image and Graphics Processing (ICIGP 2018), February 24-26, Hong Kong, Published in ACM digital library. (Accepted)
- Kiran Sonavane, Badal Soni, "Optimization of multiple sequence alignment (MSA) using invariant code 22) extraction and static thread scheduling", Published in IEEE International Conference for Convergence in Technology (I2CT), 2017, DOI: 10.1109/I2CT.2017.8226313, Mumbai, India.
- 23) Badal Soni, Debalina Biswas, "Image Forensic using Block-based Copy-move Forgery Detection", Published in IEEE, Fifth International Conference on Signal Processing & Integrated Networks, SPIN 2018, Delhi, India
- 24) Nilima Ahmed, Pinki Roy, "A Review Study of Digit Recognition System", IEEE International Conference on NextGen Electronic Technologies: Silicon to Software. March 23rd to 25th 2017. VIT university vellore, Chennai.
- 25) Pinki Roy, Nilima Ahmed, Saswati Debnath "Facial feature based authentication system from video stream" 58th International Conference on Best Researches, International Organization of Scientific Research and Development (IOSRD) 2017 (In press)
- S.Namasudra, P. Roy, B. Balamurugan and P. Vijavakumar, "Data accessing based on the popularity 26) value for cloud computing," Proc. of the International Conference on Innovations in Information, Embedded and Communications Systems (ICIIECS), IEEE, Coimbatore, India, Vol. V, pp. 109-104,
- S.Namasudra, P. Roy and B. Balamurugan, "Cloud computing: fundamentals and research issues", 27) Proc. of the 2nd International Conference on Recent Trends and Challenges in Computational Models. IEEE. Trivandivanam. India. 2017.
- Saswati Debnath, and Pinki Roy, "Speaker Independent Isolated Word Recognition based on ANOVA 28) and IFS", 10th International Conference on Computer Modeling and Simulation (ICCMS-2018), 8-10 January, 2018 Sydney, Australia.

National Conference(s): NIL d.

Book/Chapter:

- Heisnam Rohen Singh, Dr. Saroj Kr. Biswas, Recent Neuro-fuzzy Approaches for Feature Selection 1) and Classification, Exploring Critical Approaches of Evolutionary Computation, IGI Global (Accepted)
- Badal Soni, Pradip K. Das, Dalton Meitei Thounaojam (2018), "An Efficient Block Phase Correlation 2) Approach for CMFD System." In: Pattnaik P., Rautaray S., Das H., Navak J. (eds) Progress in Computing, Analytics and Networking, Advances in Intelligent Systems and Computing, vol 710. Springer, Singapore,
- Saswati Debnath, and Pinki Roy, "Isolated Word Recognition based on Difference Statistical and 3) Feature Selection Technique", Advances in Intelligent Systems and Computing (AISC Series Springer), International Conference on Cognitive Informatics & Soft Computing (CISC-2017), 20-21 December 2017, Hyderabad, India.
- Himanish Shekhar Das, Pinki Roy, "A Deep Dive into Deep Learning Techniques for solving Spoken Language Identification Problems", in the book titled "Intelligent Techniques in Speech Signal 4) Processing" Elsevier press (Accepted)

1.6 CONSULTANCY SERVICES: NIL

1.7 MAJOR EQUIPMENT ACQUIRED: NIL

1.8 PATENT: NIL

1.9 VISITS TO ABROAD

SI.No.	Name of the Faculty	Name of the Conference/Programme	Place	Date
1	Dr. Shyamapada Mukherjee	ICoIAS'2018	NTU, Singapore	1-3 March, 2018
2	Dr. Badal Soni	International Conference on Image and Graphics Processing (ICIGP 2018),	Hong Kong	February 24- 26
3	Dr.Pinki Roy	10th International Conference on Computer Modeling and Simulation (ICCMS-2018)	Sydney, Australia.	8-10 January, 2018

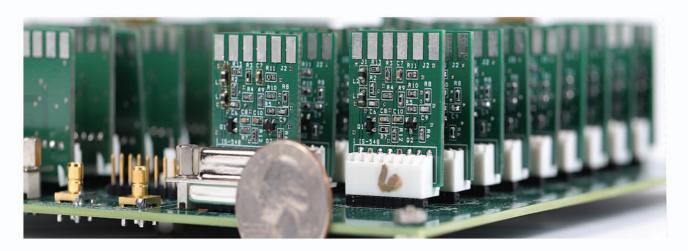
1.10 M.Tech. / M.Sc. (Thesis/Project)

SI. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project
1	Jacob Shreya	Dr. Saroj Kr. Biswas	Keyword Extraction from Twitter Data using Graph Based Model
2	Sabuzima Nayak	Ripon Patgiri	Metadata Server
3	Asish Singh	Dr. Shyamapada Mukherjee	Placement Solution for Homogeneous FPGA using Tree-based Algorithm
4	Vishwajeet Singh	Dr. Badal Soni	Emotion Recognition from EEG signals
5	Sujit Kumar	Biswajit Purkayastha	TLRUSBoost : A Hybrid Approach to Overcome Class Imbalance Problem
6	Nilesh Dilipkumar Ghadre	Dr. Dalton Meitei Thounaojam	Robust Perceptual Image Hashing using Fuzzy Color Histogram
7	Nilima Ahmed	Dr. Pinki Roy	Speech and Facial Feature Based Authentication System

1.11 Ph.D. Theses: NIL

1. Name of the Department:-

Electronics and Instrumentation Engineering



1.1 Academic Staff:

HEAD: Dr. Rajdeep Dasgupta Name of Faculty members:

Professor	Associate Professor	Assistant Professor
NIL	Dr. Shahedul Haque Laskar	Dr. Rajdeep Dasgupta
		Dr. Munmun Khanra
		Dr. Arun Kumar Sunaniya
		Dr. Manas Kumar Bera
		Dr. Ranjay Hazra
		Mrs. Jupitara Hazarika
		Dr. Lalu Seban
		Mr. Sudarsan Sahoo
		Dr. Shivendra Kumar Pandey
		Dr. Koena Mukherjee

Visiting Professor (If any): NIL

1.2 Distinction Achieved

a) By Student: NIL

By Faculty Member: NIL b)

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) **Conducted by Faculty Member**

SI. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	Dr. Manas Kumar Bera	Robustness, Fragility, Optimality and Modern PID Control	GIAN project awarded by MHRD	10 Days
2	Dr. Ranjay Hazra, Dr. Arun Kumar Sunaniya and Mr. Sudarsan Sahoo	A short term course on "Recent Trends in Communication, Signal Processing and Solid State Devices."	TEQIP-III	5 days
3	Dr. Ranjay Hazra, Dr. Arun Kumar Sunaniya	GIAN course on "Innovation and Technology Enterprise: Idea to Entrepreneurship."	MHRD	12 days
4	Mr. Sudarsan Sahoo, Dr. Ranjay Hazra and Dr. Arun Sunaniya.	Recent Trends in Communication, Signal Processing and Solid State Devices	TEQIP-III	1 week
5	Mr. Sudarsan Sahoo and Dr. S.H. Laskar	Data Acquisition and LabVIEW Applications	TEQIP-III	01 week

Participated by Faculty Member b)

SI. No.	Name of Faculty	Details of the Program	Organizing Institute
2.	Dr. Munmun Khanra	QIP Short Term Course "Applied optimal control and estimation" from 09-19 May 2017	IISC Bangalore
2	Dr. Arun K Sunaniya	3-Day Short-Term Course on "Theory & Technology of Silicon Solar Cell"September 18- 20, 2017.	IIT Bombay
3	Dr. Ranjay Hazra	EDUMEET on "Fatory Automation and Reform of Academia" on 23/03/18	NIT Silchar
4	Dr. Ranjay Hazra	Two days "Train the Trainer" National Workshop on Massive Open Online Courses (MOOCS) on 26/08/17 and 27/08/17	NIT Silchar
5	Dr. Rajdeep Dasgupta	10 Days GIAN Course on "Systems Design for Remote Healthcare", at IIT Kharagpur from Dec. 18 to Dec. 29, 2017	IIT Kharagpur

1.4 Research Development

Ph.D. Programme (Specializations): a)

- Biometric Authentication
- Biomedical Signal Processing
- **Biomedical Instrumentation**
- **Brain Computer Interface**
- Biosensors
- Transdermal drug delivery
- Sensors design & Application
- VLSI design (Analog & Digital)
- Thin Film solar cells
- Signal, Speech & Image Processing
- Image Segmentation
- Measurement and Monitoring of Industrial Parameters
- Modelling, Estimation, Control and Optimization of Energy Systems (PG, Batteries, Supercapacitors in Electrified Vehicles, Wireless Sensor Nodes, Consumer Electronics)
- Industrial Instrumentation
- Linear and Non-linear Control
- Sliding Mode Control
- Control of Biological systems
- Study of dielectric material used for insulator, Communication circuit, nano-film, defense, pharmaceutical, polymer, food and agricultural industry
- Communication System: Performance Analysis, Energy Efficiency and Power Allocation
- Wireless Communication: D2D, Cognitive Radio, 5G, UWB
- Wireless Networks: VANET, Cross Layer Optimization
- Control Theory and its applications
- Bio-medical Application of Control

b) Ph.D. Produced/Ongoing (in number):

Completed	Submitted	Ongoing
0	1	30

c) Research Lab/ Workshop:

SI. No.	Name of Lab/Workshop	Purpose/Linkage to an existing/new programme
1	Energy and	New research
	transportation Lab	To support existing Power Electronics Lab

d) **Ongoing/Completed Sponsored Research Project:**

SI. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1	Development of battery	Dr. Munmun	Department of		3yrs
	supercapacitor hybrid energy	Khanra	Science &	22.21816	
	storage for standalone solar		Technology, Govt. of		

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		photovoltaic power systems		India.		
		j , , ,				
	2	Development of Piezoelectric	Dr. Sudarsan	IEDC, NIT Silchar	1	1 vear
	_	•		ILDO, IVIT Official		i yeai
		Energy Harvesting Mat & Date: 1	Sahoo			
		Supercapcitor Based Storage				
		Device for E-Rickshaw				

e) Research Paper Reviewed

SI. No.	Faculty Name Journal Name		No. of Paper	Year
1	Dr. Ranjay Hazra	IET Communication	1	2018
2	Dr. Ranjay Hazra	International Journal of Communication Systems, WILEY	1	2018
3	Dr. Ranjay Hazra	IET Communication	1	2017
4	Dr. Munmun Khanra	ISA Transactions	3	2017
5	Dr. Munmun Khanra	IEEE Trans on Industrial Informatics	2	2017
6	Dr. Munmun Khanra	IEEE Trans on Materials Reliability	1	2017
7	Dr. Munmun Khanra	IEEE Access	1	2018
8	Dr. Munmun Khanra	Asian Journal of Control	1	2018
9	Dr. Manas Kumar Bera	ISA Transactions	2	2017, 2018
10	Dr. Manas Kumar Bera	Part I; Journal of Systems and Control Engineering	1	2018

f) Chairing of Technical Section: NIL

1.5 PUBLICATION

a) International Journal(s):

1. Namita Boruah, Lalu Seban, B. K. Roy, 2018, "Nonlinear Model Predictive Control in Quadruple Tank System: An Event Triggered Approach", Journal of Advanced Research in Dynamical & Control Systems, Vol. 10, Issue: 03, pp.179-185, Institute of Advanced Scientific Research

b) National Journal(s):

- 1. Subhra Sankha Sarma, Piyush Kant and Raj Kumar, 2018, "Multi-functional system for persons with disabilities using EEG signals of eye blink," Current Science, Vol 114, No 1, pp. 193-195, Current Science Association along with the Indian Academy of Sciences, DOI: 10.18520/cs/v114/i01/193-195
- 2. B. Mali, S. H. Laskar, 2018, "Soft Sensor for Estimation and Identification of Reduced Dimensional Quality Control Inputs", Journal of Instrumentation Technology and Innovations, Vol. 7, No.3, pp. 24-29, STM Journals

c) International Conference(s):

1. J. Hazarika, P. Kant and R. Dasgupta, "Functional neural connectivity in healthy subjects while playing an action video game", The International Conference on Science and Technology 2017, Rajamangala University of Technology Thanyaburi, Pathum-thani, Thailand, December 7-8, 2017.

- 2. Pankaj Saha, Satadru Dey, and Munmun Khanra. "Modelling of charge and self-discharge responses of supercpacitors" Circuits and Systems (MWSCAS), 2017 IEEE 60th International Midwest Symposium on. IEEE, August 6-9, 2017.
- P Khuntia, R Hazra."Resource sharing for Device-to-Device communication underlaying cellular network", IEEE International conference on Recent Advances in information Technology, IIT Dhanbad, March 15-17, 2018
- P Khuntia, R Hazra." Device-to-Device Communication Aided by Two-Way Relay Underlaying Cellular Network", IEEE International conference on Wireless Communications, Signal Processing and Networking (Wispnet), , SSN college, Chennai, March 22-24, 2018
- Soumya Sundar Pattanayak, Tushar Bachar, and Swagatadeb Sahoo, "Dielectric Relaxation Phenomenana of N. N-Dimethylformamide in Different Solvents from Conductivity Measurement under 9.90 GHz Electric Field". International Conference on Electrical. Electronics. Computers. Communication. Mechanical and Computing (EECCMC), IEEE Proceedings, Priyadarshini Engineering College, Chettiyappanur, Vaniyambadi - 635751, Vellore District, Tamil Nadu, India, January 28-29, 2018.
- MA Siddiqui, MN Anwar, S H Laskar, "PID Controller Tuning of Cascade Control Systems Using Frequency Response Matching and Dominant Pole Placement Method ", International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC), IEEE Proceedings, Priyadarshini Engineering College, Chettiyappanur, Vaniyambadi - 635751, Vellore District, Tamil Nadu, India, January 28-29, 2018.
- Manas Kr. Bera, Modeling & Simulation of Hybrid Model for the Short-Circuit Mode of Transfer in GMAW Systems, 2018 International Conference on Intelligent Autonomous Systems (ICoIAs'2018), Singapore, March 1-3, 2018.
- Bhabani Shankar Dey, Manas Kumar Bera and Binoy Krishna Roy, Nonlinear Active Control of a Cancerous Tumour, Control Instrumentation System Conference, CISCON 2017, MIT, Manipal, November 3-4, 2017.

d) National Conference(s):

B. Mali, and S. H. Laskar, "Soft Sensor for Estimation and Identification of Reduced Dimensional Quality Control Inputs", XIV Control Instrumentation System Conference (CISCON-2017), Manipal Institute of Technology, Manipal University, Nov 3-4, 2017

e) Book/Chapter: NIL

1.6 CONSULTANCY SERVICES: NIL

1.7 MAJOR EQUIPMENT ACQUIRED

- 2 USRP DSR KITS purchased by Department of E&I worth Rs 11 lakhs
- Bitrode life cycle tester (FTV-2), 2017

1.8 PATENT: NIL

1.9 VISITS TO ABROAD

SI.No.		Name of the Conference/ Programme	Place	Date
	Faculty			
1	Dr. Munmun	IEEE International Midwest Symposium	Tufts University, Boston, USA	• 06-09
	Khanra	on Circuits and Systems, MWSCAS-2017	bosion, osa	August, 2017
2	Dr. Munmun	Visit to Laboratory of Prof. Jae-Do Park,	University of	July 31 - August
	Khanra	Associate Prof., Electrical Engineering	Colorado, Denver,	04, 2017
		Department, CU Denver	USA	
3			Singapore	March 1-3, 2018
	Kumar Bera	Autonomous Systems (ICoIAs'2018)		

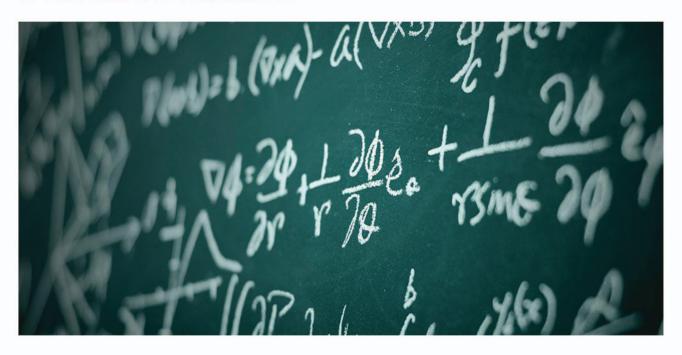
1.10 M.Tech. / M.Sc. (Thesis/Project)

SI. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project	
1	Naveen Yadav	Dr. Ranjay Hazra	Resource Allocation in Device to Device Communication	
2	Sarful Alam	Dr. Arun Kumar Sunaniya and Dr. Ranjay Hazra	Design & performance analysis of Gallium Arsenide (GaAs) Hetro-junction Bipolar Transistor solar cell	
3	Prabhat Ranjan	Dr. Munmun Khanra	Current-sensorless maximum power point tracking of photovoltaic systems	
4	Abdus Samad	Mr. Sudarsan Sahoo	Development of a Micro-Controller Based Robotic Arm Control System for Educational Purpose.	
5	Nayan Jyoti Boro	Mr. Sudarsan Sahoo, and Dr. Arun Kumar Sunaniya	Efficiency Enhancement And Reflectance Reduction Of Single Junction Compound Semiconductor Solar Cell	
6	Seema	Dr, Lalu Seban, Dr. Manas Kumar Bera	Control of Rotary Inverted Pendulum	
7	Suman Kumar	Dr, Lalu Seban, Dr. Swagatadeb Sahoo	Blood Pressure Measurement using Portable Sensor	
8	Jusmita Das	Dr. R. Dasgupta, Mrs. Jupitara Hazarika	Development of modified graphite pencil electrode for sweat based glucose sensor.	
9	Bhabani Shankar Dey	Dr. Manas Kumar Bera	Control of Cancerous Tumor Cell Growth By Chemotherapy	
10	Pintu Kumar	Dr. Manas Kumar Bera	Control of HIV/AIDS Dynamics	

1.11 Ph.D. Theses: NIL

1. Name of the Department:-

Mathematics



1.1 Academic Staff:

HEAD: Dr. Santanu Roy, Assistant Professor

Name of Faculty members:

Professor	Associate Professor	Assistant Professor
NIL	Sri Bijan Nath	Dr. Santanu Roy
	Dr. Pijus Kanti De	Dr. (Mrs.) Mausumi Sen
		Dr. Ganti Ramesh
		Dr. Kedar Nath Das
		Dr. Praveen Kumar Gupta
		Dr. Md Maqbul
		Dr. Pankaj Biswas
		Dr. (Mrs.) Juthika Mahanta
		Dr. Subrata Bera
		Dr. Balla Hema Sundar Raju

Visiting Professor (If any): NIL

1.2 Distinction Achieved

a) By Student: NIL

b) By Faculty Member:

- Dr. Subrata Bera has received a travel grant from DST-SERB, Govt. of India under International Travel Scheme for attending ASME 2017, Fluid Engineering Division Summer Meetingheld at Hilton Waikoloa, Hawaii, USAduring July 30-August 03, 2017.
- 2. Dr. Praveen Kumar Gupta has received a best paper award in *3rd International Conference on Advances in Mechanical and Production Engineering 2018* held at Bangkok, Thailand during March 19-20, 2018.

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) Conducted by Faculty Member: NIL

b) Participated by Faculty Member

SI. No.	Name of Faculty	Details of the Program	Organizing Institute
1.	Dr. Subrata Bera	ASME 2017, Fluid Engineering Division Summer Meeting held on Hilton Waikoloa, Hawaii, USA during July 30-August 03, 2017.	The American Society for Mechanical Engineering.
2.	Dr. Praveen Kumar Gupta	International Conference on Mathematics and Computing 2018 held on IIT (BHU) Varanasi, India during January 9-11, 2018.	IIT BHU, Varanasi, India
3.	Dr. Subrata Bera	International Conference on Mathematics and Computing 2018 held on IIT (BHU) Varanasi, India during January 9-11, 2018.	IIT BHU, Varanasi, India
4.	Dr. Md Maqbul	International Conference on Mathematical Sciences and Statistics held on University Putra Malaysia during February 6-8, 2018.	University Putra Malaysia, Malaysia
5.	Dr. Pankaj Biswas	International Conference on Mathematical Sciences and Statistics held on University Putra Malaysia during February 6-8, 2018.	University Putra Malaysia, Malaysia
6.	Dr. Praveen Kumar Gupta	International Conference on Mathematical Sciences and Statistics held on University Putra Malaysia during February 6-8, 2018.	University Putra Malaysia, Malaysia
7.	Dr. Praveen Kumar Gupta	3rd International Conference on Advances in Mechanical and Production Engineering (ICAMPE 2018) held on Bangkok, Thailand during March 19- 20, 2018.	World Academy of Research in Science and Engineering

1.4 Research Development

a) Ph.D. Programme (Specializations):

- Fuzzy Set Theory and Fuzzy real-valued multiple sequence spaces.
- Evolutionary Optimization, Networking optimization.
- Mathematical Modelling of Biological Problems, Fractional Calculus, Numerical Methods for ODE and PDEs.
- Higher Order Compact Schemes, Multigrid methods, Application to incompressible flows, Heat transfer.
- Computational Fluid dynamics in Micro and Nano fluidics.
- Spectral Element Methods in Parallel Computers, Applications to Coanda effect in cardiology.
- Inverse Eigenvalue problem
- Fractional integral equation
- Fuzzy optimization.
- Operations Research, Mathematical Modeling, Elastodynamics, PDE in Wave Propagation Problems, Fuzzy Reliability Modelling, Fuzzy Statistics.

b) Ph.D. Produced/Ongoing (in number):

Completed	Submitted	Ongoing
02	0	14

c) Research Lab/ Workshop:

SI. No.	Name of Lab/Workshop	Purpose/Linkage to an existing/new programme
1.	Research Scholar Computer Laboratory	Computer Laboratory for Ph.D. students
2.	M.Sc. Computer Laboratory	Computer Laboratory for M.Sc. students
3.	Computational Laboratory for Micro and Nano Fluidics	Computational Laboratory for Micro and Nano fluidics Research
4.	Numerical Computational Laboratory	For High Performance Parallel Computations

d) **Ongoing/Completed Sponsored Research Project:**

SI. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1.	Spectral element methods for elliptic and parabolic interface problems in R^2 on parallel computers	(BITS Pilani, Hyderabad)	National Board of Higher Mathematics, Mumbai-400 001, Maharashtra INDIA	Rs. 13,59,100/	03 Years
2.	Numerical Study on Electrokinetic Flow through		Science and Engineering Research Board	Rs. 25,00,000/-	03 Years

	Polyelectrolyte coated Nanopore		(SERB), DST, Govt. of India, New Delhi-110070		
3.	A study on measure theoretical approach to convergence of sequences in probabilistic normed spaces.	PI: Dr. M. Sen	SERB(DST)	Rs.15,35,520/-	03 Years

e) Research Paper Reviewed

SI. No.	Faculty Name	Journal Name	No. of Paper	Year
1	Dr. P.K. Gupta	Waves in Random and Complex Media (Taylor & Francis)	01	February, 2018
2	Dr. P.K. Gupta	Journal of King Saud University – Science (Elsevier)	01	December, 2017
3	Dr. P.K. Gupta	Nonlinear Engineering – Modeling and Application (de Gruyter)	01	August, 2017
4	Dr. P.K. Gupta	Mathematical Biosciences (Elsevier)	01	June, 2017

f) Chairing of Technical Section

SI. No.	Faculty Name	Details
1	Dr. K. N. Das	International Conference in "Soft Computing for Problem Solving (SocProS 2017)", 23-24 Dec. 2017, IIT Bhubaneswar, Odisha.

1.5 PUBLICATION

a) International Journal(s):

- SubrataBera and S. Bhattacharyya (2018). Effects of geometric modulation and surface potential heterogeneity on electrokinetic flow and solute transport in a microchannel, Theoretical and Computational Fluid Dynamics, Vol. 32, Issue2, pp. 201–214, Springer Berlin Heidelberg, https://doi.org/10.1007/s00162-017-0448-7.
- SangitaSaha and Santanu Roy (2017). Some I-Convergent Triple Sequence Spaces of Fuzzy Numbers defined by OrliczFunction, International Journal of Control Theory and Applications, Vol. 10, Issue 19, (Scopus) ISSN: 0974:5572,
- 3. SangitaSaha and Santanu Roy (2017). Some new classes of Zweierl-Convergent Triple Sequence Spaces of Fuzzy Numbers defined by an Orlicz Function, Advances in Fuzzy Sets and Systems; ISSN: 0973:421X, 22(1), pp.53-70.
- PrabhujitMahapatra, KedarNath Das, Santanu Roy (2017). A modified competitive swarm optimizer for large scale optimization problems, Applied Soft Computing, ELSEVIER (SCIE/Scopus), Vol. 59, pp. 340-362.
- 5. S. Saha and S. Roy (2018). New ClassesofStatistically Pre- Cauchy Triple Sequences of Fuzzy Numbers defined by Orlicz Function, Indian Mathematical Society, Vol. 85, Issue (3-4), pp. 1-11.

- 6. M. Sen, B.C. Tripathy and S. Nath (2017). Best approximation in quotient probabilistic normed space, Journal of Applied Analysis, 23(1), pp. 53-57.
- 7. D. Sarma, M. Sen(2017), Inverse Eigenvalue Problems with Partial Eigen Data for Acyclic Matrices whose Graph is a Broom, Kyungpook Math. J., 57, 211-222
- LN Mishra, M. Sen, R N Mohapatra(2017), On Existence Theorems for Some Generalized Nonlinear 8. Functional-Integral Equations with Applications, Filomat, 31(7), 2081–2091.
- 9. M. Sen, D. Dutta, A. Deshpande (2017), Type-2 fuzzy G-tolerance relation and its properties. International Journal of Analysis and Applications, 15 (2), 172-178.
- b) National Journal(s): NIL
- International Conference(s): c)
- 1. D. B. Mishra, R. Mishra, K. N. Das, A. A. Acharya (2017). Solving Sudoku Puzzles Using Evolutionary Techniques—A Systematic Survey, Conference Proceeding of SocTA, Soft Computing: Theories and Applications, Vol. 583, pp. 791-802, Springer, Nov. 2017.
- 2. Pankaj Biswas, N. Kishore Kumar and Anil Kumar Kar (2018). Performance of space-time coupled least-squares, International Conference on Mathematical Sciences & Statistics (ICMSS 2018), University of Putra Malaysia, Kualalumpur, Malaysia, February 06-08, 2018.
- 3. Praveen Kumar Gupta (2018). Numerical Solution with analysis of HIV/AIDS dynamics model with effect of fusion and cure rate, International Conference on Mathematical Sciences & Statistics (ICMSS 2018), University of Putra Malaysia, Kualalumpur, Malaysia, February 06-08, 2018.
- 4. Praveen Kumar Gupta and Biplab Dhar (2018). Dynamical behaviour of fractional order tumor-immune model with targeted chemotherapy treatment, 3rd International Conference on Advances in Mechanical and Production Engineering (ICAMPE 2018), Bangkok, Thailand, March 19-20, 2018.
- 5. S. Saha and S. Roy, New classes of Statistically Spaces of Fuzzy Real Numbers Convergent Difference Triple Sequence, Second International Conference on Modern Technologies in engineering and science, ICMTES 2017 organised by Knewton Institute of Research in Engineering and Technology, Andra Pradesh, India during 18-19 August 2017.
- 6. Subrata Bera and S. Bhattacharyya, Effect of charge density on electrokinetic ions and fluid flow through polyelectrolyte coated nanopore, ASME 2017 Fluids Engineering Division Summer Meeting, Waikoloa, Hawaii, USA, July 30-August 3, 2017.
- 7. D. Dutta, M. Sen. Multi-item solid fixed charged transportation problem with type-2 fuzzy variables. International Conference on Quality, Productivity, Reliability, Optimization, and Modeling, 258-265, IEEE Xplore, 2017.
- D. Dutta, M. Sen. Multi-item fixed charged solid shipment problem with type-2 fuzzy variables. Soft 8. Computing: Theories and Applications, Advances in Intelligent Systems and Computing, 689-702, Springer, 2018. (SCOPUS indexed)
- 9. P.K.De, A.C.Paul and Mitali Debnath, "Mathematical Modeling of Economic Order Quantity in a Fuzzy Inventory Problem Under Shortages", NGCT 2017, Dehradun, October 30-31, 2017.
- 10. P.K.De and Joyshree Das, "Mathematical Modelling and Analysis of Channel Wave Propagation in an Initially Stressed Medium", ICOVP-2017, IIT Guwahati, 29 Nov- 02 Dec, 2017 [in Press]

d) National Conference(s):NIL

e) Book/Chapter:

1. D. Dutta, M. Sen. Fixed Charged Solid Transportation Problem with Budget Constraints in Type-2 Fuzzy Variables: Multi-Objective Solid Transportation Problem. Soft Computing Techniques and Applications in Mechanical Engineering, Advances in Mechanical Engineering (AMME), Book Series, 35-71, IGI Global Publisher, 2018.

1.6 CONSULTANCY SERVICES: NIL

1.7 MAJOR EQUIPMENT ACQUIRED

Name: IBM Power System S822LC (Sponsored by SERB, DST Project)

1.8 PATENT: NIL

1.9 VISITS TO ABROAD

SI.No.	Name of the Faculty	Name of the Conference/ Programme	Place	Date
1.	Dr. Subrata Bera	ASME 2017, Fluid Engineering Division Summer Meeting	Hilton Waikoloa, Hawaii, USA.	July 28 – August 06, 2017.
2.	Dr. Md Maqbul	International Conference on Mathematical Sciences and Statistics	UPM, Kualalumpur, Malaysia	February 6-8, 2018
3.	Dr. Pankaj Biswas	International Conference on Mathematical Sciences and Statistics	UPM, Kualalumpur, Malaysia	February 6-8, 2018
4.	Dr. P.K. Gupta	International Conference on Mathematical Sciences and Statistics	UPM, Kualalumpur, Malaysia	February 6-8, 2018
5.	Dr. P.K. Gupta	3rd International Conference on Advances in Mechanical and Production Engineering	Bangkok, Thailand	March 19-20, 2018.

1.10 M.Sc. (Project)

SI. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project
1.	Ms. Disha Saikia (16-47-101)	Dr. P.K. Gupta	A study on Hepatitis B virus model with fusion effect
2.	Ms. Rubi Das (16-47-102)	Dr. Kedar Nath Das	Networking Optimization

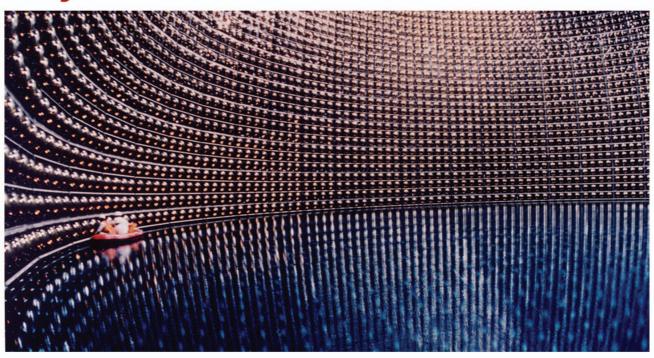
3.	Mr. Vivek Kumar (16-47-103)	Dr. Md Maqbul	A Study On Parabolic Partial Integro- Differential Equations
4.	Mr. Dipankar Subba (16-47-104)	Dr. Kedar Nath Das	Solving Rubic Cube by using Evolutionary Optimization Algorithms
5.	Mr Nirmal Kumar Singha (16-47-105)	Dr. Mausumi Sen	Numerical Solution of Fredholm Integral Equation of Second kind with Toeplitz Plus Hankel Kernel using Weighted Mean Value Theorem for Integrals
6.	Mr. Shivam Batra (16-47-106)	Dr. Pijus Kanti De	A Study on Fault Tree Analysis Under Intuitionistic Fuzzy Setting
7.	Mr. Pankaj (16-47-107)	Dr. Pijus Kanti De	A Study On Propagation of Love Waves in an anisotropic initially stressed porous layer medium and a non-homogeneous elastic half space.
8.	Mr. M. Sri Srinivasa Raju (16-47-108)	Dr. B.H.S. Raju	Forced convection past a sphere for liquid metals
9.	Ms. Anjali Patel (16-47-109)	Dr. Pankaj Biswas	A nonstandard Finite difference scheme for convection diffusion equation
10.	Ms. Sulagna Sarkar	Dr. Subrata Bera	Distribution of External Electric Field in the Heterogeneous Surface

1.11 Ph.D. Theses

SI. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis
1	Ms. Munmun Nath	Dr. S. Roy	A study on multiple sequence spaces of fuzzy real numbers
2	Mr. Biplab Chaudhuri	Dr. K.N. Das	Troop Search Optimization: Strategies and Applications

1. Name of the Department:-

Physics



1.1 Academic Staff:

Head: Dr. Rupak Dutta

Name of Faculty members:

Professor	Associate Professor	Assistant Professor
NIL	Dr. Asim Roy	Dr. S. K. Barik
		Dr. A. Chowdhury
		Dr. R. Dutta
		Dr. S. R. Mohapatra
		Dr. R. G. Nair
		Dr. S. Panda

1.2 Distinction Achieved

a) By Student: NIL

b) By Faculty Member: NIL

SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS 1.3

a) **Conducted by Faculty Member**

SI. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	Dr. A. Chowdhury	Artificial Limb camp	Gyansagar, NIT Silchar in association with Bharat Vikas Parishad Silchar Branch	Dec. 17, 2017

Participated by Faculty Member b)

SI. No.	Name of Faculty	Details of the Program	Organizing Institute
1	Dr. Avijit Chowdhury	International School on Fundamental Crystallography and Workshop on Structural Phase Transitions: A Satellite School of 24 th IUCr Congress, 2017	30 th August to 4 th September 2017 by Department of Physics and Astronomy, National Institute of Technology Rourkela, Odisha-769008, INDIA
2	Dr. S. R. Mohapatra	International School on Fundamental Crystallography and Workshop on Structural Phase Transitions: A Satellite School of 24 th IUCr Congress, 2017	30 th August to 4 th September 2017 by Department of Physics and Astronomy, National Institute of Technology Rourkela, Sundargarh, Odisha-769008, INDIA
3	Dr. Ranjith G. Nair	International Conference on Functional Materials and Metallurgy (ICFMM 2017, November 28-30, 2017	University of Malaya

c) Participated by Research Students: NIL

1.4 Research Development

a) Ph.D. Programme (Specializations):

- B- Physics, Neutrino Physics, CP Violation,
- DFT study of Perovskite Solar Cell
- Solar energy materials, Solar Photocatalysis, Solar Photovoltaics, Semiconductor Heterojunction
- Resistive memory devices, Semiconductor nanostructure, high-k dielectrics
- Multiferroics
- Nanomaterials
- Energy storage materials
- Nano ionic resistive switching devices

b) Ph.D. Produced/Ongoing (in number):

Completed	Submitted	Ongoing
02	NIL	6

c) Research Lab/Workshop: NIL

d) Ongoing/Completed Sponsored Research Project:

SI. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1	Energetic Ion beam assisted synthesis of Ag/Au ion implanted Titania/ZnO thin filmand investigation of their utility as Photoanode for Dye Sensitized Solar Cell		IUAC- UGC	6.03	2016- 2019
2.	Fabrication and Testing of Tandem LayeredQuantum Dot Sensitized Solar Cell withElevated Absorption	Dr. Ranjith G. Nair	DST- SERB	25.13	2017- 2020

e) Research Paper Reviewed

SI. No.	Faculty Name	Journal Name	No. of Paper	Year
1	Prof. Asim Roy	Journal of Materials Science: Materials in Electronics	1	2017
2	Dr. S. R. Mohapatra	Journal of Physics D: Applied Physics	2	2017-2018
3.	Dr. Ranjith G. Nair	Journal of Alloys and Compounds	2	2017-2018

1.5 PUBLICATION

a) International Journal(s):

- 1. S. Bhattacharjee, P. K. Sarkar, M. Prajapat, A. Roy, 2017, Electrical reliability, multilevel data storage and mechanical stability of MoS₂-PMMA nanocomposite-based non-volatile memory device, Journal of Phys. D: Applied Physics, Vol. 50. No. 26
- 2. S. R.Mohapatra, M. G.Nair, A. K.Thakur, 2018, Synergistic effect of nano-ceria dispersionon improvement of Li + ion conductivity in polymer nanocomposite electrolytes, Materials Letters, 221, 232-235
- 3. Rupak Dutta and Anupama Bhol, 2017, b→(c,u)τvleptonic and semileptonic decays within an effective field theory approach, Physical Review D, Vol 96, American physical society
- 4. Rupak Dutta and AnupamaBhol, 2017, Bc→(J/Ψ,ηc)τvsemileptonic decays within Standard model and beyond, Physical Review D, Vol 96, American physical society

b) National Journal (s): NIL

c) International Conference(s):

- Abinash Das, MoumitaPatra, RiuRiu Wary, Pradip Gupta, Ranjith G. Nair, 2018 Photocatalytic performance analysis of Degussa P25 under various laboratory conditions, IOP Conference Series: Material Science and Engineering, 377, 012101.
- Ranjith G. Nair, Mathan Kumar P, Samdarshi S. K., January 2018, Performance engineering of Dye 2. Sensitized Solar Cells (DSSC) using Ag modified Titania as Photoanode, IOP Conference Series: Materials Science and Engineering, 303, 012001.

d) National Conference(s): NIL

e) Book/Chapter: NIL

1.6 CONSULTANCY SERVICES:NIL

1.7 **MAJOR EQUIPMENT ACQUIRED**

- 1. Dual channel source meter
- 2. Hot Air Oven
- 3. UV-Visible Spectrometer

1.8 PATENT: NIL

1.9 VISITS TO ABROAD

SI.No	Name of the Faculty	Name of the Conference/ Programme	Place	Date
1	Dr. Ranjith G. Nair	International Conference on Functional Materials and Metallurgy (ICFMM 2017	Kuala Lumpur, Malaysia	November 28- 30, 2017

1.10 M.Sc. (Thesis/Project)

SI. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project
1.	Prajna Chakraborty	Dr. S. R. Mohapatra	Preparation of MoS₂nano-sheets using Liquid Phase Exfoliation Method.
2	Anindita Deb	Dr. A. Chowdhury	Synthesis and characterization of high quality and exfoliated graphene oxide
3	PrantikSarmah	Dr. Subhasis Panda	Self-Organized Criticality and The Abelian Sandpile Model
4	Sumitra Dutta	Dr. Asim Roy	Fabrication and characterization of ZnO/MoS ₂ / heterostructure
5	Rima Das	Dr. Asim Roy	Computation of and their analysis on Physics Experiment.
6	Subrata Debnath	Dr. Asim Roy	Photosensitivity and Capacitance characteristics of Graphene Molybdenum Disulphide Hybrid Structure
7	Kunjan Kashyap Sharma	Dr. Rupak Dutta	CKM matrix: A review

8	Panchali Malakar	Dr. R. G Nair	Performance Engineering of ZnOPhotocatalyst using Microwave assisted Technique for solar energy applications
9	Kumarendra Baishya	Dr. Rupak Dutta	Neutrino oscillation: A review
10	Alokesh Baishya	Dr. Avijit Chowdhury	Theoretical study of structural and electronic properties of Indium Phosphide
11	Suma Das	Dr. Avijit Chowdhury	Fabrication of low cost dye sensitized solar cell using natural plant pigment as sensitizers and Graphene oxide/ITO as counter electrode
12	Pradip Kr. Gupta	Dr. R. G Nair	Design, fabrication and testing of a prototype indigenous photocatalytic reactor along with using reusability analysis of some photocatalysis
13	Trinayana Deka	Dr. S. R. Mohapatra	Preparation and characterization of PVdF-HEP based proton exchange membrane by phase inversion technique
14	Dilip Kumar Roy	Dr. Subhasis. Panda	Studies on PT-symmetric hamiltonians

1.11 Ph.D. Theses

SI. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis
1.	Susmita Nath	Dr. S.K. Barik	Studies on structural, electrical and multiferroic properties of co-doped rare earth orthoferrites
2.	Snigdha Bhattacharjee	Dr. Asim Roy	Resistive Switching and Memory Performances of Semiconductor nanoparticles Embedded Polymer Films

1. Name of the Department:-

Chemistry



1.1 Academic Staff:

HEAD: Dr. Baban H. Shambharkar

Name of Faculty members:

Professor	Associate Professor	Assistant Professor
NIL	NIL	Dr. Ruma Rano
		Dr. Baban H. Shambharkar
		Dr. L. Rokhum
		Dr. N. Shaemningwar Moyon
		Dr. S. S. Dhar
		Dr. M. A. Zaman
		Dr. P. Barman

Visiting Professor (If any): NIL

1.2 Distinction Achieved

a) By Student: Six (6) number of students qualified GATE Exam

b) By Faculty Member: NIL

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) Conducted by Faculty Member

SI. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	Pranjit Barman	A One-Week Workshop/ Teacher Training On'STRATEGIC PLANNING, TECHNIQUES AND METHODS (SPTM)'	PMMM NMTT, DHE, GOI	21-25 th August 2017 (One week)

b) Participated by Faculty Member: NIL

1.4 Research Development

a) Ph.D. Programme (Specializations):

Environmental Waste Management, Characterisation and Utilisation of Coal Combustion Residues, Synthesis and Characterization of Fly Ash as catalyst/ Photocatalyst

Synthesis of Bivalent Organo-sulfur compounds and their applications. Synthesis of Metal-complexes and their applications.

Synthesis of nanostructured catalysts and their application in organic transformations.

Synthesis of nanocomposites for environmental remediation

Energy and Environment

b) Ph.D. Produced/Ongoing (in number):

Completed	Submitted	Ongoing
6	01	22

c) Research Lab/ Workshop: NIL

d) Ongoing/Completed Sponsored Research Project:

SI. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1	Synthesis of Indenoisoquinolinedione	L. Rokhum	SERB	16.5	2014-17
2	Towards the synthesis of bio- active molecules using solid phase organic synthesis (SPOS) pathways	L. Rokhum	SERB	32.16	2014-18

3	Nanostructured Metal Oxides Immobilized Ionic Liquids as Green Catalysts for Selective Organic Transformations	Dr S S Dhar	DST- SERB	28.64	March 2018- March 2021
4	Spectrofluorimetric studies of nitrogen-heterocyclic drugs and its interaction with DNA-nucleotides	Dr. N. S. Moyon	DST- SERB	33.09	2017-2020
5	Metal complexes of new chiral Schiff bases: Design, structure, elucidation, reactivity and synthetic applications.	Pranjit Barman	DST- SERB	35	3-years

e)Research Paper Reviewed

SI. No.	Faculty Name	Journal Name	No. of Paper	Year
1	L Rokhum	Green Chemistry	1	2017-2018
2	L Rokhum	Organic Letters	1	2017-2018
3	L Rokhum	Royal Society Open Science	1	2017-2018
4	L Rokhum	Journal of Nanostructure in chemistry	1	2017-2018
5	L Rokhum	Catalysis letters	1	2017-2018
6	L Rokhum	BioNanoScience	1	2017-2018
7	Dr S S Dhar	Materials Chemistry and Physics	01	2018
8	Dr S S Dhar	Journal of Chemical Technology and Biotechnology	01	2017
9	Dr S S Dhar	Research on Chemical Intermediates	01	2017
10	Dr S S Dhar	Inorganic and Nano-metal Chemistry	01	2017
11	Dr S S Dhar	Applied Catalysis A	01	2017
12	Dr. Pranjit Barman	Applied Organometallic Chemistry(Elsiver)	01	2017-2018
13	Pranjit Barman	Journal of Organic Chemistry(ACS).	01	2017-2018
14	Pranjit Barman	Asian Journal of Organic Chemistry	01	2017-2018

f) **Chairing of Technical Section: NIL**

1.5 PUBLICATION

International Journal(s): a)

1. Kalyani Rajkumari, Juri Kalita, Diparjun Das, Lalthazuala Rokhum. Magnetic Fe3O4@silica sulfuric acid nanoparticles promoted regioselective protection/deprotection of alcohols with dihydropyran under solvent-free conditions. *RSC Adv.*,**2017**, 7, 56559 (Highlighted in SYNFACTS).

- 2. Sushovan Chatterjee, Dhanurdhar, Lalthazuala Rokhum. Extraction of a cardanol based liquid bio-fuel from waste natural resource and decarboxylation using a silver-based catalyst. Renew. Sustainable Energy Rev.2017, 72, 560-564. (Elsevier, Impact factor 9.135).
- 3. Diparjun Das, Gunindra Pathak, Jasha M. H. Anal and Lalthazuala Rokhum. Polymer Supported Triphenylphosphine-Methylacrylate Complex: An Efficient Catalyst for the Selective lodination of Alcohols. Curr. Appl. Polym. Sci.2017, 2017, 1, 63-71.
- 4. Arpita Paul Chowdhury, Baban H. Shambharkar BiOBr-Ag₈SnS₆ heterostructured nanocomposite photocatalysts: Synthesis, characterization, and photocatalytic application Asia-Pac J Chem Eng. 2018 doi.org/10.1002/apj.2182 Wiley
- 5. Bishal Bhuyan, Arijita Paul, Meghali Devi, Siddhartha Sankar Dhar Silver NPs dispersed water extract of fly ash as green and efficient medium for oxi-dant-free dehydrogenation of benzyl alcohols, , RSC Advances, Jan 2018, 8, 1313-1319.
- 6. Bishal Bhuyan, Bappi Paul, Arijita Paul, Siddhartha Sankar Dhar Paederia foetida Linn. promoted synthesis of CoFe₂O₄ and NiFe₂O₄ nanostructures and their photocatalytic efficiency, , IET Nanobiotechnology, **2017**, 12, 253-240.
- Bishal Bhuyan, Arijita Paul, Bappi Paul, Siddhartha Sankar Dhar and Pranab Dutta Paederia 7. foetida Linn. promoted biogenic gold and silver nanoparticles: synthesis, characterization. photocatalytic and in vitro efficacy against clinically isolated patho-gens, J. Photochemistry and Photobiology B: Biology, 2017, 173, 210-215.
- 8. Firoza Sultana and Ruma Rano, "Comparative study of coal combustion residues from pulp and paper mills of Assam." Energy sources Part A, Vol. 39 (16) 1799-1806, 2017 (Taylor & Francis)
- 9. N.A. Mazumder, R. Rano, "Synthesis and characterization of fly ash modified copper oxide (FA/CuO) for photocatalytic degradation of methyl orange dye." Materials Today: Proceedings: 5, 2281-2286, Feb 2018 (Elsevier)
- Devi, N.; Sarma, K.; Rahaman, R.; Barman, P. Synthesis of a new series of Ni(II), Cu(II), Co(II) and Pd(II) complexes with an ONS donor Schiff base: crystal structure, DFT study and catalytic investigation of palladium and nickel complexes towards deacylativesulfenylation of active methylenes and regioselective 3-sulfenylation of indoles via thiouronium salt formation. Dalton Trans. March 2018, 47, 4583-4595. DOI. 10.1039/C7DT04635A
- Rahaman, R.; Barman, P.Iodine-Catalyzed Mono-and Disulfenylation of Indoles in PEG400 through a Facile Microwave-Assisted Process. Eur. J. Org. Chem. 2017, 6327-6334. DOI. 10.1002/ejoc.201701293.
- Devi, N.; Rahaman, R.; Sarma, K.; Khan, T.; Barman, P. Towards the lodine-Catalyzed 12. Regioselective Sulfenylation of Unsymmetrical Ketones. Eur. J. Org. Chem. 2017, 1520-1525. **DOI**. 10.1002/ejoc.201601562.
- Shamima Begum, Md. Ahmaruzzaman, Biogenic synthesis of SnO₂/activated carbon nanocomposite and its application as photocatalyst in the degradation of naproxen, Applied Surface Science, Volume 449, Pages 780-789.
- Archita Bhattacharjee, M. Ahmaruzzaman, α-Amino acid assisted facile synthesis of twodimensional ZnO nanotriangles for removal of noxious pollutants from water phase, Journal of Environmental Chemical Engineering, Volume 6, Issue 4, August 2018, Pages 4970-4979.
- 15. Shamima Begum, Md. Ahmaruzzaman, CTAB and SDS assisted facile fabrication of SnO2 nanoparticles for effective degradation of carbamazepine from aqueous phase: A systematic and comparative study of their degradation performance, Water Research, Volume 129, 1 February 2018, Pages 470-485.
- DipyamanMohantaMd.Ahmaruzzaman, Bio-inspired adsorption of arsenite and fluoride from aqueous solutions using activated carbon@SnO₂ nanocomposites: Isotherms, kinetics, thermodynamics, cost estimation and regeneration studies Journal of Environmental Chemical Engineering, Volume 6, Issue 1, February 2018, Pages 356-366.

- 17. Archita Bhattachariee, M. Ahmaruzzaman, Microwave assisted facile and green route for synthesis of CuO nanoleaves and their efficacy as a catalyst for reduction and degradation of hazardous organic compounds, Journal of Photochemistry and Photobiology A: Chemistry, Volume 353, 15 February 2018, Pages 215-228.
- Dipyaman Mohanta, Koushik Barman, Sk. Jasimuddin Md. Ahmaruzzaman, MnO doped SnO₂ nanocatalysts: Activation of wide band gap semiconducting nanomaterials towards visible light induced photoelectrocatalytic water oxidation, Journal of Colloid and Interface Science, Volume 505, 1 November 2017, Pages 756-762.

b) National Journal(s):NIL

c) International Conference(s):

- 1. Kalyani Rajkumari, Aayushi Biswas and Lalthazuala Rokhum. Magnetic Fe₃O₄@SiO₂-NH₂ nanoparticle catalyzed green synthesis of nitroalcohols via Henry reaction. Proceedings of Int. Conf. on Systems and Processes in Physics, Chemistry and Biology, Feb 2018, 80-83.
- 2. Aayushi Biswas and Lalthazuala Rokhum. Bio derived synthesis of silver nanoparticles from Tecoma stans leaf extract and its photocatalytic and antimicrobial activity. Proceedings of Int. Conf. on Systems and Processes in Physics, Chemistry and Biology. Feb 2018, 76-79.
- 3. R. Rano, N. A. Mazumder, F. Sultana, Synthesis and Characterization of Fly Ash-Ag₂O Nanoaggregates Photocatalyst for Degradation of Malachite Green Dye, 4th International Conference on Nanoscience and Nanotechnology (ICNSNT), 14-15th Dec'2017, Colombo, Sri
- N.A. Mazumder, R. Rano, Importance of FE-SEM, FT-IR, XRD and BET surface area analysis 4. to characterize various heterogeneous catalysts derived from coal fly ash, International Conference on Sophisticated Instruments in Modern Research (ICSIMR 2017), June 30 - July 1' 2017 at IIT .Guwahati
- 5. Firoza Sultana, Ruma Rano ,Water Holding Capacities of High carbon ash from Paper Mills, International Conference on Waste Management, 22-24 Feb'18 Recycle-2018, IIT Guwahati.

d) National Conference(s): NIL

e) Book/Chapter:

SI. No.	Title of the Book	Name of the Publisher	Publication details	Name of Co-Authors
1	INTRODUCTION TO FLY ASH AND ITS PERSPECTIVE UTILISATION Dr. Ruma Rano	Scholars' Press, Germany	ISBN 978- 620-2-30438-	NIL

1.6 CONSULTANCY SERVICES: NIL

1.7 MAJOR EQUIPMENT ACQUIRED

1. Fluorescence spectrometer

1.8 **PATENT: NIL**

1.9 VISITS TO ABROAD

SI.No.	Name of the Faculty	Name of the Conference/ Programme	Place	Date
1	Dr. Ruma Rano	"4 th International Conference on Nanoscience and Nanotechnology (ICNSNT) "	Colombo, Sri Lanka.	14-15 th Dec'2017

1.10 M.Tech. / M.Sc. (Thesis/Project)

SI. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project
1	Dibya Jyoti Koiry 15-48-106	Dr S S Dhar	Synthesis of novel MnFe2O4/g-C3N4 and it application as catalyst in cross aldol condensation
2	Alimpia Borah 15-48-110	Dr S S Dhar	Synthesis of a novel ZnO/NiMoO4 nanocomposite and its applications as photocatalyst and antibacterial agent
3	Debashree Bora 15-48-116	Dr S S Dhar	Facile synthesis of nanostructured α -Fe ₂ O ₃ and Cu/ α -Fe ₂ O ₃ and application of Cu/ α -Fe ₂ O ₃ nanoparticles as catalysts
4	Subhakankhi Thakur (15-48-111)	Dr. B. H. Shambharkar	Synthesis and Characterization of BiOCI-Cu ₂ ZnSnS ₄ nanocomposites and investigation of their photocatalytic activity
5	Ringham Khempri (15-48-112)	Dr. B. H. Shambharkar	Synthesis and characterization of BiOCI-Ag ₈ SnS ₆ nanocomposites and investigation of their photocatalytic activity
6	Juri Kalita (15-48-113)	L. Rokhum	Nano-Fe3O4@silica sulfuric acid: A magnetically retrievable heterogeneous catalyst for protection and deprotection of alcohols under solvent-free conditions
7	Bhaskar Mahanta (15-48-101)	L. Rokhum	Bio-inspired synthesis of silver nanoparticles and studies of their photocatalytic activities.
8	Hemonta Borthakur (15-48-103)	Dr Ruma Rano	HCI modified Flyash(HFA):A Highly efficient heterogeneous solid catalyst for esterification reaction.
9	Gyandeep Pathok (15-48-118)	Dr Ruma Rano	Ethoxy functionalized Flyash(EFA): A highly efficient heterogeneous solid base catalyst for Alod Condensation reaction.
10	Rakhi Bormon (15-48-109)	Pranjit Barman	Electrophilic Sulfenylation of Amino acids and Active Methylene Compounds through N-S and C-S Coupling
11	Diganta Kalita (15-48-114)	Pranjit Barman	Studies on the Synthesis, Characterization of ONS Donor Schiff Base Complexes and Application of Schiff Base Complex of Nickel
12	Shivashis Das	Pranjit Barman	An Efficient Iodine-Catalyzed Regioselective 3-Sulfenylation

	(15-48-107)		of Indoles and Imidazo[1,2-a]pyridines with Thiols in PEG ₄₀₀
13	Dipankar Phukon (15-48-105)	Dr .N. S. Moyon	Fluorescence study of 2, 4-(1H, 3H)-Quinazolinedione in miceller media.
14	Reema Pegu (15-48-104)	Dr .N. S. Moyon	Spectrofluorimetric studies on the interaction of 4-hydroxyquinazoline with serum albumin.
15	Priyanka Dey (15-48-117)	Dr. M. A. Zaman	Synthesis of silver nanoparticles and silver loaded activated carbon nanocomposites in waste water treatment and its antimicrobial assay.
16	Minakshi Dutta (15-48-115)	Dr. M. A. Zaman	Synthesis and characterization of SnO ₂ loaded activated carbon nanocomposites and its applications towords removal of iron (III), arsenic (III) and Fluoride from aqueous phase

1.11 Ph.D Theses

SI. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis	
1	Bappi Paul (13-3-23-101)	Dr S. S. Dhar	Novel approaches for synthesis of catalysts and reagents and their application for selective organic reactions	
2	Diparjun Das (14-2-23-104)	L. Rokhum	Application of easy recoverable polymeric reagents in solod phase organic synthesis (SPOS)- A green Approach.	
3	Kuladip Sarma (12-3-8-110)	Pranjit Barman	Thioether containing Schiff base ligands and their metal complexes: Experimental, Theoretical and Catalytical activity studies.	

1. Name of the Department:-

Humanities & Social Sciences



1.1 Academic Staff:

HEAD: Dr. N. B. Singh
Name of Faculty members:

Professor	Associate Professor	Assistant Professor
Prof. Gurudas Das		Dr. N.B. Singh
		Dr. Reena Sanasam
		Dr. Avishek Ray

Visiting Professor (If any): NIL

1.2 Distinction Achieved

a) By Student: NIL

b) By Faculty Member:

1. Avishek Ray has been awarded the Purdue University Library Research Grant (USA) and the CICOPS Fellowship, University of Pavia (Italy). He has delivered invited lectures at: (1) Institute of Development Studies Kolkata (IDSK), Kolkata; (2) Centre for Advanced Theory (CAT), University of Liberal Arts (ULAB), Dhaka, Bangladesh; (3)

- Ambedkar University, New Delhi; (4) Research Institute of Cultures & Languages of Asia, Mahidol University, Thailand | 19 Jun 2017; and (5) Centre for Policy Research, New Delhi
- 2. Gurudas Das has delivered a valedictory address in the national seminar on "Challenges of Development, Governance and Democracy in South and South East Asia", held during January 4-5, 2018, organized by the Department of Economics, Calcutta University.

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) **Conducted by Faculty Member**

SI. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	Dr. Avishek Ray	GIAN Course on 'Images as Modes of Knowledge, Social Practice and Affect'	MHRD	2 weeks
2	Dr. Avishek Ray	GIAN Course on 'Religion, Ideologies & nationalism in South Asia'	MHRD	1 week
3	Prof. Gurudas Das	National Seminar on "ASEAN Calling: Development of India's North East through Sub-regional Cooperation	,	2 Days

Participated by Faculty Member b)

SI. No.	Name of Faculty	Details of the Program	Organizing Institute
1.	Dr. Avishek Ray	International Symposium on Digital Politics in Millennial India, 15-17 Mar 2018	Indraprastha Institute of Information Technology, New Delhi (IIIT-Delhi)
2	Dr. Avishek Ray	Goethe Society of India International Conference on Cosmopolitanism, Globalisation and Literary Space: Perspectives and Narrations of a (new) World Citizenship, 21-23 Feb 2018	University of Delhi, India,
3	Dr. Avishek Ray	International Conference on Contemporary Communication Cultures, Controls and Becomings, 16-17 Feb 2018	University of Madras, India,
4	Dr. Avishek Ray	International Seminar on Reinventing Nationalism: Seculairsm & Plurality: Media discourses & Deconstruction, 11-12 Nov 2017	Gauhati University, India
5	Dr. Avishek Ray	National Seminar on Indian Music and Dance: The Absence of Critical Attention and Analysis, 4-6 September 2017	Indian Institute of Advanced Study (IIAS), Shimla
6	Dr. Avishek Ray	International Conference on Mahabharata & Inter- Asian Cultures, 6-8 April 2017	Delhi University
7	Prof. Gurudas	National Seminar on "ASEAN Calling:	Department of HSS,

	Das	Development of India's North East through Sub- regional Cooperation, April 18-19, 2017	NIT Silchar
8	Prof. Gurudas Das	International Conference on "India - Myanmar – Thailand Trilateral Relations: Way towards a Stronger ASEAN – India Partnership", September 6-7, 2017	(AIC), Research and
			in collaboration with Maulana Abul Kalam Azad Institute of Asian Studies (MAKAIAS), Kolkata Centre for Studies in
			International Relations and Development (CSIRD), Kolkata
9	Prof. Gurudas Das	National Seminar on "Changing Contexts of India- China Relations: Insights and Lessons from Crisis Pathways and Imperatives in Stability and Convergence", September 11, 2017	ICSSR-NERC, Shillong
10	Prof. Gurudas Das	Regional consultations on "Development of North East India and India's Act East Policy: A Quest for Synergy", 24 and 25 October 2017	FIDC and RIS, New Delhi
11	Prof. Gurudas Das	Workshop on "Research Methodology in Social Sciences", December 4-13, 2017	ICSSR-NERC, Shillong
12	Prof. Gurudas Das	National seminar on "Challenges of Development, Governance and Democracy in South and South East Asia", January 4-5, 2018	Department of Economics Calcutta University
13	Prof. Gurudas Das National Workshop on "Logistics, Global Governance and India's Look East Policy", March 20, 2018		Calcutta Research Group-Rosa Luxemburg Stiftung programme, In collaboration with Deptt of Political Science, Vidyasagar University, Midnapore, West Bengal

1.4 Research Development

Ph.D. Programme (Specializations): NIL a)

- Ph.D. Produced/Ongoing (in number): NIL b)
- Research Lab/Workshop: NIL c)
- d) Ongoing/Completed Sponsored Research Project:
- e) Research Paper Reviewed: NIL
- f) Chairing of Technical Section: NIL

1.5 PUBLICATION

International Journal(s): a)

- Avishek Ray, S. Bhattacharyya, 2017, 'On Knowledge Ecology: A Dissenter's Tryst with 1. Scientificity', in Localities, Vol. 7, pp. 223-30
- Avishek Ray, 2017, 'A Survey on the Semantic Field of 'Vagabond', in Anglica: An International 2. Journal of English Studies [published by the University of Warsaw], Vol. 26: 2, pp. 51-60
- Gurudas Das, Ujiwal Kanti Paul, Avishek Ray, Tanuj Mathur, 2017, "Is the Organic System Economically Viable? The Case of Pineapple in India's Northeast", International Journal of Fruit Science, n1 (20170125): 1-11
- Gurudas Das [Ujjwal Kanti Paul, Avijit Debnath Tanuj Mathur], "Market Integration and Price Leadership in India's Onion Market", Review of Market Integration 8(1&2) 49–64, 2017
- Gurudas Das [with Subodh Chandra Das] '"Public Resource Allocation through Grassroots 5. Democratic Institutions: Evidence from Assam, India", International Journal of Public Administration, 2017
- Gurudas Das [with Tanuj Mathur and Hemendra Gupta] "Examining the influence of health insurance literacy and perception on the people preference to purchase private voluntary health insurance", Health Services Management Research, (Online Version) 1–14, 2018
- b) National Journal(s): NIL

e) Book/Chapter:

Gurudas Das, Ujjwal Paul and Tanuj Mathur, 2017, "Making 'Act East Policy' work for the Development of North Eastern Region of India", in Pankaj Jha and Rahul Mishra (eds), Integrating North East in India's Act East Policy, Indian Council of World Affairs, Sapru House, New Delhi.

Gurudas Das, Ujiwal Kanti Paul, 2017, "Reaping Dividend from India's Act East Policy: What North East can offer?", in Joshua Thomas and K Sarda (eds), Act East and India's North East, Pentagon Press, New Delhi

Gurudas Das, Malabika Das, 2017, "India-Myanmar-Thailand (IMT) Trilateral Highway and its likely impact on the Economic Integration between NER and ASEAN", in Ujjwal Kanti Paul, Gurudas Das and C Joshua Thomas (eds), ASEAN Calling: Development of India's North East through Subregional Cooperation, Pentagon Press, New Delhi

1.6 CONSULTANCY SERVICES: NIL

1.7 MAJOR EQUIPMENT ACQUIRED: NIL

1.8 PATENT: NIL

1.9 VISITS TO ABROAD

SI.No.	Name of the Faculty	Name of the Conference/ Programme	Place	Date
1	•	Purdue University Library Research Grant	USA	June 2017
2	Dr. Avishek Ray	CICOPS Fellowship, University of Pavia	Italy	Apr-May 2017

1.10 M.Tech. / M.Sc. (Thesis/Project): NIL

1.11 Ph.D. Theses: NIL

1. Name of the Department:-

Management Studies



1.1 Academic Staff: 02 (Regular Faculty), 06 (Temporary Faculty), 01 (Visiting Faculty)

HEAD: Dr. Ashim Kumar Das Name of Faculty members:

Professor	Associate Professor	Assistant Professor
NIL	NIL	Dr. Ashim Kumar Das
		Dr. Soma Panja
		Dr. Subroto Chowdhury
		Mr. Subhadeep Mukherjee
		Mr. Saroj Kumar Koiri
		Mr. Sourav Dey
		Mr L. A Meetei
		Mrs. Sona Srivastava
		Dr Mansi Rastogi (Visiting Faculty)

Visiting Professor (If any):

- 1. Dr. Rajat Bashya, Retired Professor, IIT Delhi
- 2. Dr. Madhusudan Karmakar, Professor, IIM Lucknow
- 3. Dr. Saptarshi Purkayastha, Assistant Professor, IIM Calcutta
- 4. Dr. Thandava Murthy, Principal, S. D. C, Mysore, Karnataka.
- 5. Mr Anish Sengupta- Executive VP, Valforma Technology Services Pvt. Ltd.
- **6.** Dr. Subhadeep Paul, Assistant Professor, Bankura University.

7. Dr. Nikhil Bhushan Dey – Professor (Emeritus Fellow) Deptt of Commerce, Assam University.

1.2 Distinction Achieved

a) By Student: NIL

b) By Faculty Member: NIL

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) Conducted by Faculty Member

SI. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	Dr Soma Panja	Research Methodology and Data Analytics	Self- Finance	5 Days

b) Participated by Faculty Member: NIL

1.4 Research Development

- a) Ph.D. Programme (Specializations): HR / Marketing / Finance
- b) Ph.D. Produced/Ongoing (in number):

Completed	Submitted	Ongoing
00	00	05

c) Research Lab/ Workshop: NIL

d) Ongoing/Completed Sponsored Research Project:

SI. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1	Innovation & Entrepreneurship Development	Dr. Ashim Kr Das	DST, Govt. of India	50,00,000/-	5 Years
	Centre (IEDC)				

e) Research Paper Reviewed: NIL

f) Chairing of Technical Section: NIL

1.5 PUBLICATION:

International Journal(s): a)

- Mansi Rastogi, (2018), 'Job Crafting And Work Family Enrichment: The Role Of Positive Intrinsic Work Engagement', Journal of Personnel Review (Emerald), 47 (3), 654-674. (Scopus, ABDC-A Category, SCI)
- Mansi Rastogi, (2017), 'Work-Family Enrichment in India: Validation of Work-Family Enrichment Scale, Global Business Review, 18 (6), 1568-1579, (Scopus, ABDC-C Category,

b) National Journal(s):

Subhadeep Mukherjee, (2017), 'Employees Perception of Spirituality in the Workplace – A Case Study of IT Industry' Adhyatma: A Journal of Management, Spirituality, and Human Values., 1 (1), 1-7. (Peer- Reviewed)

c) International Conference(s):

- Dr Soma Panja, 'Decision in Management Science as Applied to Heuristically Designed Portfolio Optimisation Model '- International Conference on Interdisciplinarity: Contemporary Research in Humanities, Social Sciences and Management Studies, (COIN - 2017),Department of Humanities and Social Sciences, National Institute of Technology Meghalaya, 21-22 July, 2017.
- Subhadeep Mukherjee & Saroj Kumar Koiri attended 5th PAN IIM World Management Conference at IIM Lucknow, December 14-16, 2017.
- Subhadeep Mukherjee, Business Tattva Transformation of Intra Business Framework with Indian Spiritual Ethos, presented at International Conference on Science, Spirituality, & Civilization at Deptt of Applied Science & Engineering, IIT Roorkee, March 17-18, 2018.
- Subhadeep Mukherjee, Relationship between spiritual leadership and job satisfaction among the faculty members with reference to NIT Silchar in International Conference on "Alchemy of Leadership for Innovation and Sustainability" at SMS Varanasi, 17th and 18th February 2018.
- Mr. Subhadeep Mukherjee and Dr. Ashim Kr Das presented paper entitled "Spiritual Tourism at Banaras'- The Heart of Spiritual India" at International Conference on Sustainable Tourism and Hospitality Marketing: Setting Agenda for Future Research", Department of Tourism and Hotel Management, NEHU Shillong, March 15th – 17th, 2018.

7. d) National Conference(s):

- Dr Soma Panja, presented paper titled 'Initiatives of the State Governments in shaping Border Trade in North East India: Policies, Practices and a Proposed Framework', ASEAN Calling Development of India's North-East through Sub-regional Cooperation, April 18-19, 2017, Department of HSS, NIT Silchar.
- Saroj Kumar Koiri, Namo the Brand: A Remarking India Today, National Seminar on 'Management Strategies in New India with special reference to North East India" Gauhati Commerce College, Centre of Management Studies (GCMS), November 17, 2017.
- Subhadeep Mukherjee & Ashim Kumar Das, presented paper titled 'Karma Yoga (Path of Action): A Paradigm Vision from Indian Wisdom on Today's Business Problem of Job Attitudes' National Conference, FMS New Delhi, February 2018.

e) Book/Chapter:

Subhadeep Mukherjee, Ashim Kumar Das, Prabhu Dutta Mohanty, (2018), 'Karma Yoga (Path of Action): A Paradigm Vision from Indian Wisdom on Today's Business Problem of Job Attitudes' Transforming Management Education, New Delhi Publisher (1st Edition), ISSN: 978-93-86453-36-5., 135-143.

1.6 CONSULTANCY SERVICES: NIL

1.7 MAJOR EQUIPMENT ACQUIRED: NIL

1.8 PATENT: NIL

1.9 VISITS TO ABROAD: NIL

1.10 MBA (Theses/Project)

SI. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project	
1	Nabanita Sharma	Dr. Soma Panja	Investors' Emotion Associated in Portfolio Optimisation	
2	Vijaylakshmi Nath	Dr. Soma Panja	A study on the performance of the portfolio of SRI with ESG stocks in relation to the portfolio of Non-SRI stocks in the Indian stock market	
3	Farheen Akhtar Barbhuiya	Dr. Soma Panja	Impact of Demonetisation on the Indian Stock Market: An Event Study	
4	Abhishek Dubey	Dr. Soma Panja	Optimizing Portfolio with Sharpe Single Index Model Heuristically: An Empirical Analysis	
5	Geetanjali Sinha	Dr. Soma Panja	Role of Private Equity and Venture Capital in Development of Emerging Entrepreneurial Activity in India	
6	Anupal Sarmah	Dr. Soma Panja	An Analysis of Investor Behaviour on Various Investment Avenues with Reference to Jorhat Town	
7	Arkasree Bhattacharjee	Dr. Soma Panja	A study of new explanation of sticky dividend: An empirical Research on Indian stock market	
8	Nilanjana Roy	Dr. Soma Panja	Study on the Implication of CAPM Model in Indian Stock Market	
9	Samip Das	Dr. Soma Panja	A Study on Financial Distress of Major Pharmaceutical Companies in India using Altman Z Score	
10	Debasree Das	Dr. Subroto Chowdhury	Evaluating the Financial performance of banks in India.	
11	Subrata Mandal	Dr. Subroto Chowdhury	An empirical study of the valuation process for Start-U companies; Developing a viable valuation model	
12	Himanshoo Dabar	Dr. Subroto Chowdhury	Credit culture of banks operating in Northeastern region of India	
13	Anu Kumari	Dr. Subroto	Analysis of Risk-Return Relationship In Indian Stock	

		Chowdhury	Market
14	Jyoti Shah	Dr. Subroto Chowdhury	A Study on the Arbitrage Opportunity in Stock Futures with reference to NSE
15	Nilakshi Saikia	Dr. Subroto Chowdhury	A study on various investment options influencing investment decisions of salaried class individuals (with respect to Nagaon town)
16	Madhusmita Mazumdar	Dr. Subroto Chowdhury	Factors influencing choice of investment by people on LICI products
17	Chaitali Das	Dr. Subroto Chowdhury	A study of comparison between the performance of public & private sector banks using CAMELS Rating Approach
18	Debasree Das	Dr. Subroto Chowdhury	Evaluating the Financial performance of banks in India.
19	Sumit Chakraborty	Sona Srivastava	Customer Service Quality and Customer Delightness of organised Apparel retail: A case of Pantaloon, Kolkata.
20	Tuhina Das Choudhury	Sona Srivastava	Comparative Analysis of Patient satisfaction in Public and private Healthcare: A case of Cachar district.
21	Ramu Pokhrel	Sona Srivastava	Analysing and Assessing the Service Quality factors of online Apparel shopping towards customer satisfaction.
22	Ankur Hazarika	Sona Srivastava	Customer Perception on Online Banking Service Quality and its relationship with customer satisfaction.
23	Rashmi Sinha	Sona Srivastava	Critical Determinants Influencing the choice of Tourism Destination.
24	Nasreen Sultana Ahmed	Dr Mansi Rastogi	The impact of organizational resources on service quality: A case of hospitality sector
25	Ashim Saikia	Dr Mansi Rastogi	Determinants of work engagement among nurses: A study from Assam
26	Mercilis Kamei	Dr Mansi Rastogi	What causes turnover among nurses in India?.
27	Sagnik Choudhury	L. Athouba Meitei	A study on counteroffer: a boon or evil for the employees with respect to information technology companies
28	Grahadish Sarma	L. Athouba Meitei	Leadership traits of the founder; a mandate to Start-ups' growth in India
29	Tridib Sarma	L. Athouba Meitei	A study on factors influencing attrition of Ph.D. Scholars in north-eastern public universities
30	Deponkar Das	Subhadeep Mukherjee	Influence of FMCG Product's Packaging on Consumer Buying Behaviour with special reference to villages of Silchar Circle.

31	Rajanish Koiri	Subhadeep Mukherjee	An analytical study of personal selling and sales promotion to the medical practitioners in pharmaceutical industry at Silchar.
32	Arindam Gupta	Subhadeep Mukherjee	The impact of social media marketing on Brand Loyalty : Case Study of Reliance Jio Infocomm Limited
33	Subrajit Nath	Subhadeep Mukherjee	A study on employees 'job satisfaction and its relationship with employees' performance with reference to Oil India Limited.
34	Partha Pratim Das	Subhadeep Mukherjee	A study on employee's perception of spirituality at workplace and its impact on job performance with reference to Oil India Limited.
35	Sidhant Majumder	Subhadeep Mukherjee	A Study on Labour Welfare Measures in Industrial Organization with reference to Indian Oil Corporation Limited
36	Abul Salam Azad Barbhuiya	Saurav Dey	Satisfaction level of customers regarding the logistics services provided by e-retailers -A study in Silchar
37	Randeep Kumar Chakravarty	Saurav Dey	Ascertainment of the opportunities of the product (Tea) of Bochapathar Tea Estate Pvt Ltd in Dibrugarh
38	Arun Jyoti Bora	Saurav Dey	Consumer perception towards green Cars-A study in Guwahati
39	Writu Patgiri	Saurav Dey	Perceptions of existing owners of Commercial four wheeler passenger cars towards the same during their next purchase- A study in Guwahati & Bongaigaon
40	Roshan Dhakal	Saurav Dey	Impact of Big retail players on Indian Rural Market- A study in Silchar
41	Daisy Laskar	Saroj Kumar Koiri	A Comparative study on loyalty programs and its impact on consumer buying behaviour with reference to big bazaar and reliance mart
42	Swagata Dey	Saroj Kumar Koiri	Influence of promotion mix on buyingbehaviour of consumers: Study of Cosmetic Industry in Guwahati City
43	Plabon Saikia	Saroj Kumar Koiri	A study on factors influencing the purchase behaviour of male apparel consumers: A case study
44	Anamitra Khataniar	Saroj Kumar Koiri	A study on effectiveness of distribution channel of star cement in Guwahati
45	Mithisar Basumatary	Saroj Kumar Koiri	A study on factors affecting supply chain management of FMCG industries in lower Assam.

1.11 Ph.D. Theses: NIL

Academic Centres & Cells

Central Computer Centre

Head: Dr. Arup Bhattacherjee, Asstt. Prof. & HOD, CSE Dept.

Staff:

0	fficer	Technical Staff	Attendant
(i)	Mr. Kumar Mithilesh,	(i) Abhishek Palit (contractual),	(i) Ms. Champabati Balmiki.
	Sr. Tech. Officer.	(ii) Rupak Ranjan Deb (contractual),	
		(iii) Nazmul Haque Laskar (contractual),	
		(iv) Abinash Bhar (contractual).	

1. A brief Introduction and Activities of CCC:

The Institute computing facility is maintained by the Central Computer Centre (CCC) which includes high-end servers and Intel Core-i5 & i7 based Personal Computers. The CCC is having three computer labs equipped with around 330 computers.

The State-of-Art IT Infrastructure has been deployed in the year 2013 and the whole Institute including the various Departments, Students' Hostels, Administrative Building, Guest House, Library, Residential Quarters, Health Centre, Estate Engg. Branch, SAC Building, NITS Café, is connected by a campus-wide LAN & Wi-Fi facility using high speed Fibre Optic cables (1 Gbps). The LAN & Wi-Fi are managed by High Level Switches and a host of Servers. The Switches are connected by Fibre Optic Cables to Switches located in different academic departments, students' hostels of the Institute.

- The Institute has a dedicated 1 Gbps leased line under National Mission on Education through Information & Communication Technology (NME-ICT) / National Knowledge Network (NKN), which provides 24x7 Internet Connectivity to serve the Institute Internet needs.
- The institute also has a 16 Mbps leased line from Bharat Sanchar Nigam Ltd. (BSNL), dedicated to DNS service and for Backup purpose.

Currently, Wi-Fi connectivity is available at Guest House, Administrative Building, Lecture Hall Complex, Residential Quarters, Health Centre, Estate Engg. Branch, SAC Building, NITS Café, Sports Complex as well as the departments. Network expansion still continues and work is going on for making the campus Wi-Fi by deploying more number of Access Points. CCC takes all possible steps in its capacity to make the network accessible round-the-clock. Efforts are being made to improve the reliability to meet the expectations of the user-base.

2. Facilities provided by Central Computer Centre:

Campus wide Internet connectivity: Providing / Maintaining internet facility around campus through LAN and Wi-Fi on required basis.

- Institution mail service: Creating and looking after personal Institute mail of all employees and students. Institute e-mail ids are being served to all, under nits.ac.in domain.
- ➤ Hardware maintenance/ support: On required basis, rectifying computer hardware issues over academic areas.
- > UPS maintenance/ support: On required basis, providing UPS backup to active network components.
- Institution web portal: Day-to-day activities/updates of NIT Silchar, exploring to rest of the world through institute website.
- ➤ Video conferencing: CCC has been supporting video conferences with MHRD, Rastrapati Bhawan and live lecture series with other institutions, virtual sessions.
- Virtual classroom: Through this virtual classroom it has been possible to interchange technical sessions/ discussions with other institutions. Few workshops and conferences have also been conducted in our virtual classroom.
- ➤ Computer lab facility: Three labs are running under the center for conducting UG/PG classes, Training and Placement (T&P) Cell's activities and for common online examinations.
- > Supporting surveillance camera: Providing passive communication support for IP Camera around the campus.

CENTRAL LIBRAY

1. INTRODUCTION:

The Central Library is integral part of academic and research activities of NIT Silchar. It was set up in the year 1977 and it is one of the best technical libraries in North East India. It has been growing and expanding in the aspect of collection both in print form and digital form since its inception and provide services to the academic fraternity of NIT Silchar to meet their teaching, research, and consulting, training and learning requirements. The range of services offered by the library is comparable to the best libraries in the eastern zone of India. During the last year, the library initiated a number of important activities & services which are presented here briefly.

The key officers of the Central Library are:

Chairman Prof. S. Baishya, M. Tech, PhD

Librarian Dr. Kishor Chandra Satpathy, M.A (Edu), MLISc, PGDLAN, PhD

Astt. Librarian Ms. Krishnamati Singha, BSc, MLISc, MBA (HRM)

2. COLLECTION DEVELOPMENT:

Collection building is one of the important functions of the library, which supports academic and research activities of the students, faculty, staff and other users. Library collections of central library consist of books, CDs, journals, e-resources, theses, reports, standards, and other reading materials covering the areas of science, engineering, technology, humanities, social sciences and management. The following table presents the collections of the library for the year 2017-18.

The total collection of library as on 31st March 2018 stands as follows:

SI. No.	Name of Resources	As on 31 st March 2015	As on 31 st March 2016	As on 31 st March 2017	As on 31st March 2018
1.	Books	92588	94319	96683	98959
2.	Print Journals	116	99	114	105
3.	Bound Volumes	5417	5468	5468	5468
4.	CD-ROMs	4013	4274	4297	4393
5.	Databases	21	17	14	21
6.	Videos	909	909	909	909
7.	ISI Code (Printed)	8627	8627	8627	8627

SI. No.	Name of Resources	As on 31 st March 2015	As on 31 st March 2016	As on 31 st March 2017	As on 31st March 2018
8.	Book Bank (General)	9235	9235	9235	9235
9.	Book Bank (SC/ST)	8154	8180	8180	8336
10.	IRC Codes	152	152	152	152
11.	Thesis	54	70	92	123
12.	Project & Dissertation	246	365	425	474
13.	Reports/Annual Reports	353	399	423	449

A need-based collection of knowledge resources is being developed in lines with the objectives and activities of the Institute in mind. Resources include e-books & e-journals, online databases/ e-journals.

Printed Journals / Magazines

During the year Library reviewed the printed and stopped subscribing 9printedjournals that were not utilized by the users and are now available on open access. Library added 7 new printed journals; all total 105 printed journals were subscribed during the year.

Digital Resources: E-resource/database and e-book

Apart from the 13 databases provided by E-ShodhShindhu, NIT Silchar has renewed 7 databases like Elsevier Science Direct (7 subjects collection), Springer, Taylor & Francis, Royal Society of Chemistry, Indiastat.com, LNCS and Proquest Dissertation and Thesis Database and also subscribed 14 new e-resource/ database/ e-journals like ASTM, ACI, BIS Standard, Case Studies-IIM, Ahmedabad, Capitaline, IEEE—IEL, EBSCO-Business Source Elite, Emerald, Wiley, WSP, WDA (Archive 1817-2009), SIAM-17 e-journals and Sage-EMS etc.

Further, NIT Silchar also procured the Research tools like Scopus also purchased similarity check software like Turn-it-in. Library also get access to the e-books from the major publishers like Elsevier, Springer, Pearson, and Cambridge, Proquest e-brary purchased by NIT Silchar, World eBook library provided by NDL and South Asia Archive provided by e-ShodhSindhu. In 2017-18, Library has purchased e-books from renowned publishers like Springer-Nature, Tata McGraw- Hill, Oxford University Press and Taylor & Francis.

Usage Statistics of Electronic Resources

Major electronic resources have shown a significant increase in use pattern. The most popular full-text databases are ACM, ASCE, ASME, Elsevier' Science Direct, IEL, Springer Link, ACS. Comparative data of last four calendar years is given below:

Uses Statistics from 2014 to 2017

SI.	Source	Year wise download statistics				
No.		2014	2015	2016	2017	
1.	ACM	1225	1689	2090	18,141	
2.	ASCE	4155	6523	5902	8,894	
3.	ASME	1997	1433	2762	2,104	
4.	Elsevier Science Direct	103,067	127,004	1,43,521	1,79,704	
5.	IEEE- IEL level 2	73476	74420	40,314	49,969	
6.	Springer Link (1400+ Jnls)	12315	16370	17,477	22,142	
7.	AMS	358	3218	2230	2,838	
8.	Taylor & Francis	4959	5781	5714	7,634	
9.	Emerald	105	526	2960	3888	
10.	Proquest Dissertation and Theses		1337	1391	1877	

3. BUDGETARY DETAILS:

Central Library received a projected allocation of 350 Lakh under Plan-Head during the financial year 2017-18. Out of the allocation of Plan funds Rs. 25,74,764.00has been utilized for purchase of books and Rs. 4,33,65,076.52 has been utilized for renewal as well as new subscription of e-resources. The comparative statement of detailed

expenditure incurred on books, journals, newspaper, binding etc. for the year 2014-15 to 2017-18 is given below:

Details expenditure:

Year	Books	e-Books and archive of e- Journals	Printed Journals/ Magazine	Online Database/e- Journals	Contingency/ DOC	News paper & Magazines
2014-15	36,04,675.00	10,50,903.00 (TEQIP – II)	1,51,210.00	1,97,50,106.00	3,51,562.00	17,562.00
2015-16	20,63,132.00		1,94,533.00	2,49,63,597.00	1,33,980.00	20,072.00
2016-17	17,05,851.00	70,558.00			32,295.00 & Rs. 3,51,475.00 for AMC of equipment	
2017-18	25,74,764.00	1,03,55,883.00 (TEQIP III) 87,72,895.00 (Institute Fund)	2,80,098.00	4,33,65,076.52	1,51,343.00	

4. MEMBERSHIP:

All the Faculties, staff and students have got the Library membership. The following table reflects the growth of library users:

S. N.	Members	2014-15	2015-16	2016-17	2017-18
01.	BTech	2226	2340	2458	2460
02.	MTech	372	394	423	430
03.	MBA	71	101	97	83
04.	MSc	47	42	35	39
05.	PhD	170	263	284	516
06.	Academic Staff (Teaching)	199 (including Contractual)	165 (including Contractual)	166 (including Contractual)	181
07.	Non-Academic	55	130	108	59
Total		3140	3475	3631	3768

5. LIBRARY SERVICES:

Circulation service

The books circulation service is kept open for 40 hours a week. The Library issued25397numbers ofbooks during the year 2017-18.

Resource Sharing

The library maintains excellent relations with libraries of Assam University, and other local college libraries in Sothern Assam and also with DELNET for exchange of books, journals, photocopies etc. for the mutual benefit of the users. Library provides resource sharing service through inter-library loan and document delivery services. Library has core membership of E-ShodhSindhu, NDL.

Book Bank facilities

The library maintains a book bank facility to help students belonging to Scheduled Castes, Scheduled Tribes, Physically Challenged and economically weaker sections of the society. The book bank mainly consists of the prescribed text books for undergraduate courses and loans up to 5 to 7 books each to these students for full semester and sometimes more depending on availability. During the year, 500 students availed this facility and borrowed 3895 books from this collection.

Lib 2.0 SERVICES

Library users can get the latest updates/happenings in the library through our library blog at http://library-

nitsilchar.blogspot.com/ and get connected through our Facebook group at http://www.facebook.com/groups/369833813038102/. Central Library has created a web portal for e-resource management, which provides web-based access to its electronics journals, e-books and databases. It has set up a digital library & e-learning portal for the NIT, Silchar community. The library is a part of the institute-wide network and has adequate computing infrastructure to cater to the needs of the users.

Web OPAC (Search Library Catalogue): The entire Library collection including books, journals, CDs etc. can be searched through the web enabled Online Public Access Catalogue (OPAC). Users can access the OPAC to find out the real-time availability of library materials from their own computer terminals from library of institute website or the URL is: http://10.30.30.20:8001

6. LIBRARY ORIENTATION & TRAINING

Library Orientation for fresher / user's education

Library has taken key initiatives for 'user's education programme' to inform, educate and train users about various resources and services of the library. In addition to that library organizes orientation programmes for new students. During the year library also organized three library orientation programmes where users were familiarized with various resources and services.

7. MANPOWER DEVELOPMENT

The library has a small team of talented and dedicated staff to perform their duties and responsibilities with dignity and honestly. In addition to their regular jobs, most of them are involved in various academic activities like attending workshop, presenting papers in journals, seminars and conferences, delivering lectures in various training programmes, serving on various expert committees etc.

Dr. Klshor Chandra Satpathy, Librarian

Honours, Awards, Prizes

Received certificate of Appreciation for ILN in recognition for the work as the country Ambassador for India, for the International Librarians Network, Australia in June 2017.

Programme Organised:

"Train The Trainer" National Workshop on Massive Open Online Courses (MOOcs) from 26-27 Aug 2017 sponsored by Thapar University, Patiala & Royal Academy Of Engineering (UK) & TEQIP III (https://moocsworkshop.blogspot.in)

Library Orientation Programme & User Awareness Programme on JGate. (http://library-nitsilchar.blogspot.in/

Edited Publications (Books)

Digital Library & Open Access Initiatives: Responses, Strategies and Emerging Trends published by Shankar's Book Agency Pvt. Ltd, New Delhi, 2017, (ISBN 978-93-81893-13-5)

Emerging Trends and Human Resource Management in Library and Information Centers published by Shankar's Book Agency Pvt. Ltd, New Delhi, 2017, (ISBN 9789381893111)

Publications (Conference Proceedings): National

Singha, Krishnamati & Satpathy, K C; "Change Management in New Age Libraries: A Case study of Central Library, NIT Silchar" in the Proc. "1st International Conference on Transforming Library 2017", ed. Singh, Sanjay Kumar [et.al] (Guwahati: MRB Publishers), 2017: 167-179. (9789383403042)

Worked as a resource person in the following training programmes:

Acted as Panellist in the panel discussion on "Challenges faced by Librarians from resource acquisition to engagement" organised by Wiley India on 20^{th} December 2017 at New Delhi.

Acted as an invited speaker and co-chaired a session in "1st International Conference on Transforming Library 2017" held on 8-10 July 2017 at CIT Kokrajhar.

CDAC

Education: Capacity Building through Internship in the Area of SCADA and Automation, a project conducted in collaboration with NIT, Silchar was concluded successfully with the training of over 30 interns from across the different NE states participating.

- IT training program for Candidates Belonging to the North Eastern States of India.
- Establishing research Laboratories using C-DAC Labkits in North East Region Educational Institutes.
- Delivery of courses through virtual classroom between NIT Silchar and NIT, Manipur.
- Empowering NE manpower with IoT skills to support Digital India and Smart City initiatives.

C-DAC offers several short term courses in Networking, Web Technologies and IoT at its premises. In addition to this, C-DAC has conducted summer training for student of Assam University, NIT Silchar in the area of Advance Java, Python Programming concept.

E-Governance: C-DAC has successfully implemented e-Aushadhi in the states of Manipur and Meghalaya. E-Aushadhi is now being implemented in Sikkim and Arunachal Pradesh.

Emergency Response Support System (ERSS) is the vision of Ministry of Home Affairs (MHA), Govt. of India, to launch a nationwide, unified emergency response system with a single emergency number '112', for all kinds of emergencies and distress calls from across the country. NERS is designed to address distress signals from citizens in the form of voice call, SMS, e-mail, panic SOS request, web request etc. All these distress signals are sent to the common number 112. C-DAC, Silchar is implementing the roll out of this project in the NE states. This project is expected to go-live in all the states before March, 2018. C-DAC also sets up cyber-forensics training and analysis labs for Law enforcement Agencies of NE states.

PMGDISHA: C-DAC is authorize assessment agency for remote proctoring of PMGDISHA(Pradhan Mantri Gramin Digital Shaksharata Abhiyan and is conducting online assessment for certification for candidate across India.

Indian AIRFORCE Recruitment: C-DAC has been awarded responsibility for conducting recruitment examination for Indian Airforce including development of software, conducting online examination india and processing of result. The exam is conducted four time in a year all over india.

Social Empowerment: e-Saadhya, an Adaptable & Accessible e-Learning framework for the children with mild mental retardation and Autism. IT enabled computer aided design for weavers and artisans of Cachar District, Assam.

Out Reach: C-DAC is conducting Training in C-DAC educational technology solutions to schools OLAB (Online Labs) & e-Basta and also conducting ISEA workshops to government officials and people across North East states.

Supercomputing Centre

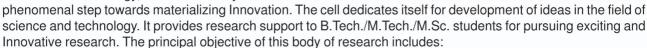
NITS Supercomputing Centre, *TheCentre of Excellence in High Performance Computing (HPC)* was commissioned on 05 April 2014 and it was first of its kind in North East NITs having state-of-the-art Supercomputing Centre built with x86_64-bit latest Intel Ivy Bridge processing and Accelerators (Intel Xeon Phi and NVIDIA Kepler Co-processing) technologies with a compute power of 15 Tera Flops, established in collaboration with C-DAC, Pune. The HPC Centre comprises of one Master node, sixteen compute nodes with NVIDIA GPU, Intel Xeon Phi Accelerators, and 84TB storage capacity connected by Storage node, management node and Infy band of 56Gbps connectivity. It has been used on high priority by the researchers of North East Institutions in computational science and engineering research and also highly acknowledged through research publications. The project proposed by Dr. T. R. Lenka, Coordinator, HPC entitled Capability building through Internship Scheme for UG/PG/PhD Research students of recognized universities/institutes in North Eastern India for strengthening research and development using HPC Technologies was approved by C-DAC North East Steering Committee for 2 Years (2016-2017). It covered internship of 50 students from North East Technical Institutions with stipend of Rs. 5000 per month for two months and Internship held at C-DAC, Pune. The NITS Supercomputing Centre has also shown interest to be a part of the ongoing National Supercomputing Mission (NSM) of Govt. of India

Institute-Industry Partnership Cell (IIPC)

To keep up with the increasing demand of Industry Ready Professionals and establish the Institute as a research oriented centre of excellence, NIT Silchar thrives hard to establish Institute-Industry Collaboration. The Institute-Industry collaborations have been executed in various modes, such as Testing, Consultancy Project, and Joint Research Project etc. Various MoUs are being signed for a fruitful Institue-Industry Collaboration. One audit course titled "Off Highway Vehicle" is developing in collaboration with NASSCOM and TATA Technologies.

Research Promotion Cell (RPC)

The genesis of the Research Promotion Cell by the National Institute of Technology, Silchar in the year 2012 has been a



- · Promotion of professional and academic activities.
- Provide career guidance to students
- To involve young brains in Science, Engg. and Technology development process

FACILITIES:

Research Promotion Cell has a dedicated air conditioned computer Lab with Wi-Fi and dedicated Internet access which remains open for 24 hours and provides a perfect atmosphere for research. Funding is provided for equipment, consumables, travel, staff/ labour charges and contingency. Research Promotion Cell not only provides support to the research oriented students, but also informs all the students of NIT Silchar about various internships opportunities in India and abroad through its facebook page. This has benefitted not only students of NIT Silchar, but also students from other colleges too.

PROJECTS:

Some research projects undertaken by the students include:

- Integrate of MPPT based on solar power generation hybridized with thermocouple principle, based solar generation, enabled with wireless transmission of solar power from ocean buoys
- Self Stabilized Quad- rotor with GSM Navigation
- Solar fountain
- Quadcopter and Image processing
- Ethane-o-creeper
- DC generator by using electromagnet (Solenoid)
- Refrigerated automatic pet feeder
- Solar powered bamboo rickshaw
- Design & Development of efficient tea leaf plucking machine
- Focusing & positioning system using automated robot
- Gesture Recognized Robot
- Study on improvement of bearing capacity of soft clay using geocell reinforcement
- Development of new triaxial cell for determination of shear parameters of soil



Indovation

The Indovation Lab, NIT Silchar came into existence with the vision to sensitize the young minds towards innovation and to foster original and creative thinking in them so that their ideas can be developed, shaped and transformed into products. The name of the center is given as INDOVATION LAB which is incepted and inspired by the concept of INDianInnOVATION. The Indovation Lab is working as a single window for idea generation, Establishment of plan, product prototype and start-up enterprise formation since its inception. It is equipped with 3-D Printing facility, Mechanical Devices, Electronic measuring instruments and gadgets, computer terminals with wi-fi connectivity etc. and has already started with product prototype development and start-up business model. It also offers few Audit and Credit courses on Design and Innovation, in consultation with industry and Academia with the Mission -

- To promote innovation and design in the country
- To promote innovative product development for social needs
- To initiate start-ups and endorse product ideas
- Nurturing creative minds of techies and entrepreneurs
- To be a unique platform where innovation meets design
- Skill development and creation of job through entrepreneurship

Achievements:

The Indovation Lab has made notable achievements in a very short span of time since its inception. Some of the activities and achievements of Indovation Lab are as follows:

PATENTS FILED-

- Development of composite material from oil extracted and alkali treated Cashewnut shells (Anacardium occidentale) [Examination awaited] Patent No- 201731007337
- Development of composite material from biodegradable Cashew nut shell (Anacardium occidentale) [Examination awaited] Patent No- 201731007338
- Easy Biometric Attendance System (eBATS) patent Number: 201731037542 [Examination awaited]

PROJECT PROPOSALS-

- Proposal entitled "Development of portable device to examine Sodium–Potassium content in blood" submitted to "PRATYAKSHAAGROTECH PRIVATE LIMITED" is approved and a grant-in-aid of Rs 500000 is received.
- Proposal entitled "Design and Development of Mobile Intravenous Drip" submitted to Innovation & Entrepreneurship Development Centre (IEDC) NIT Silchar is approved and a grant-in-aid of Rs 60000 is received.
- Proposal entitled "Utilization of fish scale bio waste of Puntius conchonius for development of composite bone scaffold" has been submitted to DST is under review.

PARTICIPATION IN SEMINARS/ WORKSHOPS/ COMPETITIONS OUTSATION-

Students of Team Tejas 3.0, NIT Silchar has developed "HUMAN ENERGIZED VEHICLE" and participated in HPVC, Asia Pacific'18 Competition which held in Delhi Technological University, Delhi from 16th to 18th march, 2018.

PROJECTS:

Baja SAE is an intercollegiate design competition run by the Society of Automotive Engineers (SAE). Teams of students from universities all over the world design and build small off-road vehicles. The goal in Baja SAE racing is to design, build and race off-road vehicles that can withstand the harshest elements of rough terrain.

Project Plan:

 Cost to Performance ratio- Our primary aim is to fabricate a vehicle with good body (roll-cage) strength with reduction of overall weight by optimising its design. Keeping the cost as one of the important priority we are focused to maximize the performance and minimizing the cost under the allotted budget.

- 2) Sponsorship and cost management- Our sole aim is to acquire maximum financial support from external means like Industries and Dealers and service providers. We are trying hard and approaching sponsors to minimize the financial support from the institute.
- Training and Automotive Skills Development-For the benefits of the scholars of our institutes we are planning to conduct theoretical and practical sessions by us and professionals to educate our fellow juniors about the dynamics of vehicle, different stages involved in development of vehicle and various mechanical engineering concepts related to this field. To grow knowledge related to automobiles, motivating and educating them about different competitions to take part in it are the major goals for stabilizing a club in the institute.

Project Grant in Aid: Rs 7,00,000.00



PUBLICATIONS-

- Payel Deb, Ashish B. Deoghare, Animesh Borah, Emon Barua, Sumit Das Lala "Bone Scaffold Development using Biomaterials: A Review", Materials Today: Proceedings 5 (2018) 12909–12919.
- 2. Emon Barua, Ashish B. Deoghare, Payel Deb, Sumit Das Lala "Naturally derived biomaterials for development of composite bone scaffold: A review", IOP Conf. Series: Materials Science and Engineering 377 (2018) 012013 doi:10.1088/1757-899X/377/1/012013.
- Payel Deb, Ashish B. Deoghare, Emon Barua "Poly ethylene glycol/fish scale-derived hydroxyapatite composite 3. porous scaffold for bone tissue engineering", IOP Conf. Series: Materials Science and Engineering 377 (2018) 012009 doi:10.1088/1757-899X/377/1/012009.
- Payel Deb, Ashish B. Deoghare, "Effect of pretreatment processes on physico- chemical properties of hydroxyapatite synthesized from Puntius conchonius fish scales", Bulletin of Materials Science. [SCIE]. (Accepted)
- Sumit Das Lala, Ashish B. Deoghare, Sushovan Chatterjee, "Effect of dual pre-treatment on the mechanical, 5. morphological and thermal properties of biodegradable waste Rubber seed shell reinforced epoxy composites", Arabian journal for science and Engineering. doi- https://doi.org/10.1007/s13369-018-3302-3.
- Sumit Das Lala, Ashish B. Deoghare, Sushovan Chatterjee, "Effect of Reinforcements on Polymer Matrix Bio-composites-An Overview. Science and Engineering of composite materials", doi- https://doi.org/10.1515/ secm-2017-0281.
- 7. S D Lala*, A B Deoghare and S Chatterjee, "Mechanical and Morphological characterization of Walnut Shell reinforced epoxy composite ", IOP Conf. Series: Materials Science and Engineering 377 (2018) 012011 doi:10.1088/1757-899X/377/1/012011



Startup Centre NIT Silchar

Under the joint initiative of Department of Science and Technology (DST) and Ministry of Human Resource Development (MHRD), NIT Silchar has been granted **Start Up Centre** in 2016 under 'Start-Up India' Scheme which was launched by Hon'ble Prime Minister of India from VigyanBhavan. The startup centre is a three project worth of Rs.1.5 cr. jointly funded by MHRD and DST, Gol.Startup Centre (F. No. 5-2/2016-TS-VII dated 17th May, 2016) is equipped with 5000 sq.ft well-furnished area to offer modular office space to entrepreneurs with Conference hall, Internet facility, cafeteria etc. The preliminary exertion for the project Start-up Centre at NIT Silchar has been started as per the guidelines and financial aid received from MHRD and DST, GOI and there were 10 nos. of startups selected for the year 2016-17 out of which four are started by our own students.

Project Coordinator : Dr. Wasim Arif, Assistant Professor, ECE

Joint Co-coordinators : Prof. Ashim Kanti Dey, Professor, CE

Prof. M Ali Ahmed, Professor, CE

Prof. A K Barbhuyia, Professor, CE

Startup Centre of NIT Silchar was inaugurated by Hon'ble Chief Minister of Assam, Shri SarbanandaSonowal on 5thSeptember, 2016. The Start-Up Centre, NIT Silchar aims to inculcate the spirit of innovation & creativity amongst the students and entrepreneurs of North East region by encouraging and supporting innovative ideas to start-up creation throughintermediary stages of innovation, incubation and entrepreneurship.

The complete list of all the Start-ups under Start-up Centre of NIT Silchar are listed below:

- 1. Doorhopper
- 2. Agro Pratakshya
- 3. Art Exlpora
- 4. Educile Tutors
- 5. Edports
- 6. VewMet
- 7. Roghaari
- 8. Rushbud

The Start-up Centre also includes an official entity as E-CELL, NIT SILCHAR which looks after all the activities and events related to business and entrepreneurship in the college.



E-CELL NIT SILCHAR

Entrepreneurship Cell (E-Cell) NIT Silchar is a non-profit organisation whose main aim is to act as a link between the students and their entrepreneurial aspirations. It functions to bridge the gap which comes in the path of success for a budding entrepreneur by equipping him/her with the relevant skill-set required to excel in the market.

E-Cell NIT Silchar has organised numerous events, competitions, real-time pitching simulations, Business-plan models and market-trade analysis scenarios to name a few.

Here is the list of some of the notable events and competitions which E-Cell NIT Silchar organised successfully:-

1. Empresaario|Tecnoesis 2017:

Under the banner of Tecnoesis 2017, E-Cell NITS organised a whole module named "Empresaario" comprising of various events to foster and promote the Entrepreneurship culture in our campus, list of which is as follows:-

a. Pitch Please:

A real-time simulation event for the entrepreneurial minds wherein they were supposed to pitch their mind boggling ideas in front of the judgement panel along with the audience. This event was aimed at targeting and honing the influencing aspect required in any Entrepreneur which is needed in times of presenting their ideas before others.



b. If I Were the CEO:

An online event where the participants were asked to step into the shoes of the CEO of a leading multi-national company in order to provide a real, applicable solution to the specific problem being faced by that company/startup. This event required solving of some of the unique as well as original questions which appears before the CEO.

c. Plantastic:

A two-stage event where part 1 comprised of a quiz consisting of questions from the trending concepts of market, business, economics etc. The participants who cleared part 1 where able to participate in part 2. Here they had to design a fully-functional Business-model about a specific issue but in less than 24 hours.

d. Bech Ke Dikhao:

An event full of fun and frolic where the participants had to sell virtually useless products such as torn clothes, used bottles, broken umbrella etc. It required thinking out of the box approach so as to convince the audience to buy that particular product (virtually). The participation was huge and people were very enthusiastic about the uniqueness and the fun aspect of this event.

2. INTERACTION VIDEO:

An interaction video was shot by the team of E-Cell NITS inside the campus itself. The host asked various simple yet not-much-thought-about questions to the students of various disciplines and programmes of our college. It was really amazing to see the responses of the students and their opinions about the various issues happening around the world of business, trade and startups.

3. ORIENTATION:

E-Cell NITS conducted its orientation programme (2018) for the freshmen of our campus to make them aware of the existence of E-Cell NITS and its achievements in the past. It highlighted the students about the need of building startups, having an entrepreneurial bent of mind, various aspects of taking risks and learning and growing in the process. The session was witnessed by a hugely enthusiastic audience and they also got many of their doubts cleared in the session.

4. ORIENTATION QUIZ:

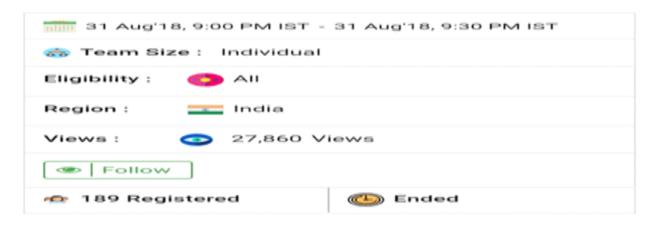
The orientation was followed by a two-round Quiz comprising questions related to various aspects of business, startups, trending terms of the industry market and some general knowledge. It was heartily accepted by the students and they participated wholeheartedly in the Quiz.

5. E-CELL WARFARE

E-Cell NITS in association with "Dare2Comptete" (an online platform of hosting various quizzes, competitions, events etc) conducted 3 online Quizzes as follows:

a. Entrepreneurship Quiz





b. Tech Quiz



Tech Quiz

#E-Cell, National Institute of Technology (NIT), Silchar

1 Sep'18, 3:00 PM IST - 1 Sep'18, 9:35 PM IST
📸 Team Size : Individual
Eligibility: 💮 All
Region : India
Views: 🖎 41,147 Views
Follow
207 Registered Ended

c. General Knowledge Quiz



General Knowledge Quiz

#E-Cell, National Institute of Technology (NIT), Silchar

2 Sep'18, 9:00 PM IST - 2 Sep'18, 9:30 PM IST				
📸 Team Size : Individual				
Eligibility: 💮 All				
Region: India				
Views: 39,583 Views				
Se Follow				
2 384 Registered Ended				

All the three Quizzes had participation from all over the country. The winners of the various quizzes were provided with e-certificates by the E-Cell NIT Silchar. This was the event with the most widely reaching audience.

E-CELL NIT Silchar bagged the 2nd prize all over India among various E-Cells of different colleges in the competition "E-CELL WARFARE" organised by 'Dare2Compete'. This feat is really commendable and appreciable. It has paved a new way for the development of our E-Cell and its promotion around India.



Empresaario 2.0 | Tecnoesis 2018

These events were organized by E-CELL ,NIT SILCHAR during Tecnoesis,2018.

- a. Pitch Please
- b. If I Were the CEO
- c. Ad-ovation
- d. Bech Ke Dikhao
- e. Taglore

We have also organized a Guest Lecture under Conferenza Event in Tecnoesis 2018, in which we invited Mr Abhinav Prateek also known as 'ABBY VIRAL' as the guest speaker, who is an Entrepreneur, YouTuber, Motivational Speaker, and an influencer.

Future event to be organised is as follows:-

1. E-SUMMIT NIT Silchar:

E-Cell NIT Silchar wishes to organise an "E-Summit" for two days in the second week of March 2019. This would be a one of its kind of event in the entire North-East. We wish to have various events, competitions, guest lectures, seminars, workshops etc. in the summit. It would provide the students of NITS and adjoining areas with the insights required to outshine their competitors. What is the need of the hour is to develop and foster the culture of thinking out of the box and working out innovative ways of solving the complex problems with meticulous proficiency. E-Summit would be an ideal platform for the raw talents of our campus to emerge as leading business tycoons of the future generations.

2. Weekly Events

E-Cell NIT Silchar is planning to organize various weekly events like pitching, business model presentations etc., to give a taste of entrepreneurship to all the enthusiasts.

Pictures of Various Events Organized by E-CELL, NIT SILCHAR



Students' Activities

Scholarship / Assistantship Awarded to the students during 2017-18:

The students, of this Institute, are awarded various types of scholarships from various schemes of Central Govt., State Governments, PSUs, Charitable Trusts/Organizations. During this period under review no. of students received scholarship/stipend from various sources.

SI. No.	NAME OF THE SCHOLARSHIP	Name of the State	Amount of Scholarship awarded in 2016-17 (RS)	No. of students received the Scholarship	Remarks
1.	Govt. of Andhra Pradesh	Andhra Pradesh	70000.00	2	
2.	Govt. Of Bihar	Bihar	1141880.00	18	
3.	Telengana	Telengana	655240.00	12	
4.	Govt. of Maharashtra	Maharashtra	78740.00	1	
5.	NEPCO	NEPCO	107000.00	3	
6.	Central Sector Scholarship	All India	1900470.00	17	
7.	Swami Dayanand Education Fund		155000.00	7	
8.	Hans Cultural Charitable Trust		51600		
			Total - 4159930.00	60	

Apart from the aforesaid Scholarships, guardians of our students also avail reimbursement of educational expenditure from their employers like - BSNL, Railways, & other Govt. / PSUs on our recommendations.

Other than this, there are many more scholarship schemes of Central & State Govt. of India where the students are directly benefited. The Institute only recommends the application of the students. If selected by the awarding authority, the students directly receives the money on their bank accounts.

Assistantships (M.Tech / Ph.D): Students admitted in the M.Tech & Ph. D programme in the institute are awarded Assistantship as per norms of MHRD and Institute. To be eligible for this Assistantship, a student must have cleared GATE/NET/UGC exams & must be a regular non-sponsored student.

Railway concession service is also provided to students of NIT Silchar from Dean (SW) Office.

NIT Silchar encourages its students for sports and other activities as well. Students are involved in NCC/NSS/ Gyansagar and various other co-curricular activities. They also have a student union body, known as "Gymkhana Union Body"

STUDENTS' GYMKHANA

In pursuit of excellence and giving life a meaningful direction, Students' Union body "Gymkhana" of NIT Silchar works towards profound personality development of NIT students by infusing in them a spirit of constructive cooperation, leadership qualities and organizational capabilities. This is being achieved by involving them in a wide spectrum of Sports & Games as well as Social & Cultural and Technological activities throughout the year.

The year 2017-2018 was also full of activities and achievements and students have made the Institute proud by maintaining high standards of organizational and leadership qualities.

LIST OF GYMKHANA OFFICE BEARERS 2017-18

SI. No.	Name	Sch. No.	Portfolio	Contact No.
1.	DEV MANAS	14-1-2-027	Vice President	8135044969
2.	BHAWANI SHANKAR SHARMA	14-1-1-102	GS (Gymkhana)	7086880300
3.	SHISHU KUMAR	14-1-3-114	Treasurer (Gymkhana)	8134977083
4.	SHUBHAM TIWARI	14-1-2-062	GS (Technical)	9508363317
5.	ANIKET RAJ	14-1-4-093	GS (Cultural)	9085235795
6.	SHUBHAM ANAND	14-1-6-040	GS (Sports)	8011851644
7.	ANKAN KISHORE PATHAK	15-1-1-027	Secretary, Eco Club	8752078081
8.	SUMIT KUMAR TIWARI	15-1-6-046	Secretary, Kabaddi & Kho Kho	7073268463
9.	VAKKALA MANOJ KUMAR	15-1-5-069	Secretary, Cricket	8134082157
10.	CHEPPALA SIDDARTHA	15-1-6-071	Secretary, Indoor games (Badminton, Chess, Carom & TT)	7896542499
11.	ANSHUMAN ROY	15-1-1-042	Secretary, Football	8399826398
12.	EESHAN DUTTA	15-1-1-046	Secretary, Tennis	8474031019
13.	PRASHANT AWASTHI	15-1-3-133	Secretary, Athletics and Gymnasium	9453921635
14.	MIRZA KAWSAR AHMED	15-1-1-063	Secretary, Trekking, Mountaineering, Karate and Skating	8752925995
15.	BHARGAV DEKA	15-1-2-043	Secretary, Basketball and Volleyball	8638094948
16.	SAJAL GUPTA	15-1-4-109	Secretary, Photography Club	7086831220
17.	ANIRBAN ROY	15-1-4-012	Secretary, Dramatic Club	9085587009
18	CHIRANJEET DAS	15-1-3-046	Secretary, Dance Club	8472064360
19	AYAN NEEL MEDHI	15-1-6-056	Secretary, Music Club	9126676423
20	BHATTACHARYYA TRISHA	15-1-5-097	Secretary, Literary, Publication & Fine Arts	9954957615
21	PANCHALI BAISHYA	15-1-1-039	Cirlo Bonyagantatiya	7086764131
	DIIXITA GULGULIA	15-1-1-006	Girls Representative	7399290900
22	ANAND JEE	16-2-4-208	PC/PhD Ponrocontative	8447576482
	SAURABH SHUKLA	16-2-1-005	PG/PhD Representative	8876360815

LIST OF FACULTY ADVISORS OF GYMKHANA UNION BODY 2017-18

SI. No.	Name	Sch. No.	Portfolio	Contact No.	Faculty Advisor
1.	DEV MANAS	14-1-2-027	Vice President	8135044969	Dr. N.B. Singh
2.	BHAWANI SHANKAR SHARMA	14-1-1-102	GS (Gymkhana)	7086880300	Dr. Wasim Arif
3.	SHISHU KUMAR	14-1-3-114	Treasurer (Gymkhana)	8134977083	
4.	SHUBHAM TIWARI	14-1-2-062	GS (Technical)	9508363317	
5.	ANIKET RAJ	14-1-4-093	GS (Cultural)	9085235795	Mr. P.S. Neog
6.	SHUBHAM ANAND	14-1-6-040	GS (Sports)	8011851644	Dr. Saumya R Mohapatra
7.	ANKAN KISHORE PATHAK	15-1-1-027	Secretary, Eco Club	8752078081	Dr. Lakshmi Vara Prasad.M
8.	SUMIT KUMAR TIWARI	15-1-6-046	Secretary, Kabaddi & Kho Kho	7073268463	Dr. Manas Kumar Bera
9.	VAKKALA MANOJ KUMAR	15-1-5-069	Secretary, Cricket	8134082157	Mr. Umakanta Majhi
10.	CHEPPALA SIDDARTHA	15-1-6-071	Secretary, Indoor games (Badminton, Chess, Carom & TT)	7896542499	Mrs. Jupitara Hazarika
11.	ANSHUMAN ROY	15-1-1-042	Secretary, Football	8399826398	Dr. Rupak Dutta
12.	EESHAN DUTTA	15-1-1-046	Secretary, Tennis	8474031019	Dr. Prashanth Janardhan
13.	PRASHANT AWASTHI	15-1-3-133	Secretary, Athletics and Gymnasium	9453921635	Dr. Avijit Chowdhury
14.	MIRZA KAWSAR AHMED	15-1-1-063	Secretary, Trekking, Mountaineering, Karate and Skating	8752925995	Dr. Lakshmi Vara Prasad.M
15.	BHARGAV DEKA	15-1-2-043	Secretary, Basketball and Volleyball	8638094948	Subhasis Panda
16.	SAJAL GUPTA	15-1-4-109	Secretary, Photography Club	7086831220	Dr. Koushik Guha
17.	ANIRBAN ROY	15-1-4-012	Secretary, Dramatic Club	9085587009	Dr. Dibyakusum Ray
18	CHIRANJEET DAS	15-1-3-046	Secretary, Dance Club	8472064360	Dr. L.C. Saikia
19	AYAN NEEL MEDHI	15-1-6-056	Secretary, Music Club	9126676423	Dr. A.K. Sunaniya
20	BHATTACHARYYA TRISHA	15-1-5-097	Secretary, Literary, Publication & Fine Arts	9954957615	Dr. Kishor Chandra Satpathy
21	PANCHALI BAISHYA	15-1-1-039	Girls Representative	7086764131	Dr. Abhishek Ray
	DIIXITA GULGULIA	15-1-1-006	Onis Kepieseniauve	7399290900	
22	ANAND JEE	16-2-4-208	PG/PhD Representative	8447576482	
	SAURABH SHUKLA	16-2-1-005	I On the Nephesentative	8876360815	

General programmes / Annual Festivals

- GYMKHANA HELP DESK: This year, the Gymkhana Union Body took an initiative to facilitate the admission procedure for the incoming batch by providing volunteers at help desks so that the students along with their parents don't feel any discomfort or panic during the procedure. This served as a medium to showcase the warm hospitality of the NIT Silchar family.
- ORIENTATION PROGRAM: Like every year, Gymkhana Union Body 2017-18 organized an orientation session for the freshmen batch of 2017-2021. This orientation program helped the freshmen to know the entire administration of the college, the regulations and other important information. The honorable Director Sir, Deans, HODs, Wardens and faculty members of the college address the students for the first time. They were also introduced to the Gymkhana Union Body and its various activities. Judging by the response of the students of 2017-21 batch, this proved to be highly beneficial to them for the upcoming years of their college life.
- iii) RABINDRANATH TAGORE MEMORIAL DAY: The ILLUMINITS organized Rabindranath Tagore Memorial Day on the 76th death anniversary of Rabindranath Tagore, India's most beloved and revered poet i.e. on the 8th of August 2017. It was an attempt to inculcate the noble values of the great man in everyone and introduce the young generation to the wonderful poems and songs he composed. The event comprised of Rabindra Sangeet competition as an ode to his classic songs, dance performances by the students, recitation of his poetic masterpieces by the students and faculty members and on the spot poetry and prose writing competition in English, Hindi and Bengali. The event was a success and applauded by one and all.
- INDEPENDENCE DAY 2017: NITS being the abode of patriotic souls, celebrated the 69th Independence Day with great zeal and enthusiasm. The tricolor was hoisted by Director Sir, followed by his inspiring speech. Events that followed included the marvelous parade by the NCC cadets and students of different hostels that set a remarkable example of synchronization.
- Blood Donation Camp: A blood donation camp was set up on the Independence Day by the Gymkhana Students' Union body with the co-operation of the NCC students. Honorable Director Sir, faculty members and a large number of students came forward to donate blood henceforth contributing to the noble cause.
- vi) **EKTA DAUD:**A marathon was organized in the college by Gymkhana Union body on August 14, 2017. Huge number of students participated in the marathon thereby depicting unity and harmony among them.
- vii) GENERAL FRESHMEN WELCOME PROGRAM: A breathtaking and amazing night was put up by the Gymkhana Union body to welcome the freshmen to the college. The program unleashed overwhelming fun and excitement by the awe inspiring performances of the students. The most awaited "Mr. & Miss Fresher's "competition was also conducted on that day itself.
- viii) **JANMASHTAMI:** The festival of the birthday of Lord Krishna, Janmashtami, was celebrated on 14th August with great enthusiasm. A puja for Lord Krishna was organized on that auspicious day in Hostel -7, which was followed by the most exciting "Dahi-Handi" competition, which involves the breaking of an earthen pot raised to a considerable height. The zeal and energy of the students was vividly demonstrated in the competition where all the hostels competed against each other. All the faculty members and students were invited to be a part of the grand celebration.

- ix) **HINDI DIWAS:** MANTHAN'17, a show of respect for the Hindi language, was organized in NIT Silchar with the aim of promoting admiration for Hindi culture amongst the NIT family. In this age when this culture is striving hard to abstain from the ever so growing encroachment of foreign influence, the students of NIT Silchar came up with their solemn vow to keep up the age of Hindi culture strong and binding.
- x) **Swachhta Pakhwara:** Extending its full support towards the Govt. of India initiative NIT Silchar organized the cleanliness drive- Swachhta Pakhwara in its campus as well as for its surroundings during the 1st & 2nd week of September 2017.
- xi) **DURGA PUJA:** To seek the blessings of the Goddess of strength, Maa Durga, a 5-day celebration of Durga Puja was organised by the combined effort of the Durga Puja Committee and Gymkhana Students' Union Body from 26th of September to 30th of September with great pomp and show. The Durga Puja revelry was not only limited to the holy rituals, but also extended to the various cultural programmes including the exuberant "dandiya night" in which all the faculty members and students participated wholeheartedly with immense pleasure. The 3 days of extravaganza ended with the Idol immersion and bidding farewell to Maa Durga on the way to her heavenly abode.
- xii) **DIWALI:** The whole campus of NIT Silchar was glowing with the shine of the magnificent diyas and colourful lights, on the pristine occasion of Diwali which was celebrated on the 19th October 2017. On that day the students got actively involved in making beautiful Rangolies and decorating their hostels thereby creating an amazing festive mood throughout the campus.
- xiii) **TECNOESIS 17:** Tecnoesis 2K17 witnessed extravaganza of modules ranging from Robotics event to Events to bring out the non-technical intelligence of students as well in events like Smart City. It also had events for School children to harness their talents in technical and non-technical fields. Gamers and photographers of the college were not left unattended as V-Warz and Pixelate gave them the right platform to display their might. The fun events like zorbing, pedal boating and balloon shooting etc also attracted a lot of crowd. The fest also took care of its students' development and proper nurturing by enlightening the students to various personalities. The children were also exposed to various military equipment and a long list of Automobiles in the military and Auto Expo. The end of the auto expo saw a stunt show like never before as the enthusiasm of the students matched the high expertise stuntman to give a thrilling display of showmanship. The Spark Night saw the end of Tecnoesis 2k17. Spark Night witnessed the amazing performances of Rajasthani folk singer Moti Khan, the Hindi rock band 'Nalayak'and DJ Shanaya. It was the selfless effort and pure devotion of the Tecnoesis 2k17 team which made it a success.
- xiv) **ALUMNI MEET:** Alumni Meet'17 was an emotional event which offered an opportunity to rejuvenate amidst the company of old boys and girls. NIT Silchar has the custom of welcoming its alumni after an interval of twenty five years, thus in its seventh incarnation, this meet was dedicated to the pass out batch of 1991 & 1992.

Promoting the values of cultural diversity of India and spreading the message of 'Ek Bharat Shreshtha Bharat', with reference to the letter received from MHRD, Govt. of India the numerous events were organized details of which are given below—

xv) NIT Silchar invited renowned Rajasthani folk music artist Mr. Moti Khan to the campus and he presented us with an evening of soulful Rajasthani music. The students, staff and faculty members of the Institute received the music very well and overall it was an evening for all of us to witness the variety in the music of this culturally vastly diverse nation of India.

- xvi) On 11th of November, 2017 NITS showcased a stage act enacting the life of a farmer in Rajasthan. Under the initiative of 'Ek Bharat Shreshtha Bharat', the students tried to showcase the hardships that a farmer and his family face. Right from the harsh weather conditions to the lack of rain, a farmer faces a lot. Then, they tried to showcase the evils of various money lenders and banks exploit farmers for their cause. A lot of farmers commit suicide owing to these factors. The students enacted how and what a farmer and his family members have to go through for each day of survival. The act was well received by the audience and the performers were bestowed by a standing ovation for the same.
- xvii) Keeping in mind the festival of Lohri that is celebrated in Rajasthan, the students tried to showcase the same here at NI Silchar. The students came out in large numbers and enjoyed a mesmerizing evening with their friends. For a lot of them, it was a very different and new experience.
- xviii) Bihu and Lohri, both are the festivals of the harvesting season. Followed by Lohri on the 13th of January, the NIT Silchar fretarnity celebrated Bihu with the same passion on the 14th of January. A glimpse of two different celebrations of the same festival was a whole different experience for the students in the Institute.
- xix) NIT Silchar invited SWARAAG band all the way from Rajasthan to our Institute to showcase classical Rajasthani folk music to all the stakeholders of the Institute. This event was planned during the annual cultural fest of NIT Silchar to promote the cultural diversity of India. The band mesmerized the audience with their beautiful performance.
- xx) NIT Silchar promoted the local cultural dance forms among the students of NIT Silchar. We invited Deusila Bihu Dol of Kahilipara, Guwahati to perform the traditional Bihu dance of Assam. We also invited Shri Satyajit Bose Joy to perform the local Dhamail Dance of Barak Valley.

The cumulative effect of all these events under Ek Bharat Shreshtha Bharat has been a better understanding and knowledge of the vast diverse cultures of Assam and Rajasthan by the majority of students, staff and faculty members of the Institute. Also, with the continuation of the events, it will help to further promote the cultural values.

- xxi) **REPUBLIC DAY '18:** Like every other year, our institute celebrated 69th Republic Day on 26th January, 2018. The exuberance and the patriotism of the entire fraternity filled the atmosphere. The event began with an inspiring, kindling speech by Honourable Director Sir followed by a colourful parade by the hostels. The NCC parade aroused patriotism in everyone. Several cultural programs also followed up.
- xxii) Blood Donation Camp: A blood donation camp was set up on the Republic Day by the Gymkhana Students' Union body with the co-operation of the NCC students. Honorable Director Sir, faculty members and a large number of students came forward to donate blood henceforth contributing to the noble cause.
- xxiii) INCANDESCENCE '18: NIT Silchar celebrated its annual cultural fest Incandescence'16 from 17th February-19th February. The ambience of the institute had been full of fun and frolic. Several modules were chalked out catering to different fields. Dance Module (Natraaj), Music Module (Indie Lake), Filmmaking Module (Directors Cut) saw the dancing stars, the singing sensations and the prolific filmmakers among the youth; while the MUN module provided a platform for the budding MUNners. These events saw participation not only by the students of NIT Silchar but from various cities of India like Delhi, Mumbai, Kolkata etc. Pankaj Thapa of Dance India Dance fame who was invited entertained everyone with his dance moves. The literary module Deprador organised a debate competition and a book fair. The management department's module Paarbon organized events like Business Treasure Hunt, Poker

Night, virtual IPL auction, Ad-making competition, photography competition etc. The Fun Module had been another exciting one, with Prom Night, Roadies, Food Carnival etc. Another big event, Razzmatazz exclusively for the school children of Barak Valley allowed them to display their creativity and enjoy a fun-filled ride. Events from sketching to singing and dancing competition were held for the school kids. However, the cultural nights during the fest were the most promising. On the 18th night, Glitterati, a fashion show was held which as expected drew a huge audience. Carpe Diem, Jaspreet Singh(Comedian), Aakash Gupta(Comedian), Gajendra Verma, Swaraag, Harfun Maula, DJ Seezi and DJ Myris graced the 19th night. The satirical poems, the hilarious jokes and the bewitching musical extravaganza created an enrapturing atmosphere. On the 18th night Thunder march-the rock fest was held where rock bands from various parts of the country came here to compete with each other in the Battle of bands. Chronic Xorn created an electrifying atmosphere. The 4-day celebrations had been a huge success and surely enlightened one and all.

xxiv) **Self Defense Workshop for Women:** A two days' workshop on self-defense was organized by the Gymkhana Union Body of NIT Silchar on 23rd and 24th of March with an intent to empower the women and encourage them for self-protection.

EDUMEET 2018: The 'Third EDUMEET 2018' was jointly organised by NIT Silchar and Mitsubishi Electric India (MEI) at NIT Silchar on 23rd March, 2018, under the aegis of TEQIP III. This meet aims at bridging the gap between the Industry and the Academia. The objective is to discuss whether the current graduate attributes are sufficient to cater the expectation of the Industry from a fresh engineer. The brainstorming sessions were organised in the respective department to initiate the necessary revision of the curriculum. Further, necessary changes in teaching-learning process to attain the non-academic graduate attributes were discussed at depth. Apart from the experts from Mitsubishi Electric India, the experts from various Industries and R&D organisations such as CSIR, BSNL, IOCL, HPCL, IIATCA, FLUGEL-SOFT etc. attended the meet. The academicians from several IITs, NITs, Reputed State Universities, IEEE, ISA, representatives of all engineering departments (faculty members), NITS-Alumni, parents of current students, and senior students of NIT Silchar etc. also attended the same. Experts lectures are followed by brainstorming sessions on curriculum-revision. A tech-model competition and a poster presentation competition were held to showcase the talent of the students on factory automation. The coordinators of the event were Prof. B.K.Roy and Dr. P.Roy from NIT Silchar and Ms. Ripanjit Kaur (MEI).

xxvi) **NIT Conclave 2017:** The 7th edition of NIT Conclave - a pan NIT Confluence of students of all the NITs - was hosted by NIT Silchar during September 1st - 3rd, 2017, which was inaugurated by Dr. Banwari Lal Purohit, Former Governor of Assam. The event hosted a technical exhibition, a series of Guest Lectures by eminent personalities like, Dr TCA Anant, Chief Statistician of India. The confluence included a presentation competition and a technical competition among all the NITs, and NIT Silchar was the winning NIT among all the various NITs which participated in it, with SVNIT Surat and NIT Srinagar getting the 1st and 2nd runners up respectively.

Apart from all the above mentioned programmes NIT Silchar also celebrated many other events, e.g. World Environment Day 2017, International Day of Yoga 2017 etc.

Infrastructure and Amenities

Estate - An OVERVIEW:

1. Historical Background

In the late fifties, the Government of India decided to establish Regional Engineering College under the Quality Technical Education Police - one each in every major state — with the prime objective of imparting quality technical education throughout the country and to foster national integration. These Regional Engineering Colleges were established as joint venture of the Government of India and the respective State Government. Assam is a major state in the North-East of India and the 15th REC was officially established in Silchar in 1967. Though 14 other RECs started functioning within 1967, it took about another decade for REC, Silchar to start its academic programmes due to various constraints.

The college started functioning in 1967 from a camp office in Shillong (the then Capital of Assam) with Dr. S. K. Baruah as Principal and Prof. B. R. Seth, the then Vice-Chancellor of Dibrugarh University as Chairman of the Board of Governors. Subsequently, an area of about 540 acres of land was acquired by the Govt. Of Assam, on the outskirts of Silchar town. This land was part of Bhorakhai Tea Estate.

The first batch of students was admitted in 1977 in the B.E programmes in 3 branches of Engineering viz. Civil Engineering, Mechanical Engineering and Electrical Engineering. The total intake in the first batch was 60 students. The meagre infrastructural facilities consisted of only a part of a hostel, two seven faculty quarters and a few quarters for Grade-IV staff of the college when the college started its academic programme in November, 1977. Initially, the classes started with only 4 full time teachers and with Dr. H. R. Chablani as Principal. The college started its academic programme with affiliation to Gauhati University. The affiliation was later shifted to Assam University in 1994. The first batch of B.E students were awarded their degrees in the year 1982-83. Subsequently, two more branches viz (i) Electronics and Telecommunication Engineering and (ii) Computer Science and Engineering started functioning from the year 1983 and 1987 respectively. On the basis of the report of the High Powered Joint Expert Committee of AICTE and UGC under the chairmanship of Prof. S. K. Joshi, Director General of Council for Scientific and Industrial Research (CSIR), Regional Engineering College Silchar has been transformed and upgraded to National Institute of Technology, Silchar with a Deemed University status with effect from 28.06.2002. The Institute has been subsequently made into a fully funded Government of India Institution. This ensures a better financial status for NIT Silchar which will accelerate its growth and ensure that it becomes one of the premier technological Institutes of not just the North-East but also of the entire nation. The Institute has remodelled its curriculum and academic activities in line with that of IITs. With its Deemed University status, the Institute started awarding degrees from the year 2002 and the first convocation of the Institute is being organization today to award degrees to all those students who qualified for the degree after its transformation into an NIT.

2. Location

The Institute is situated at Silchar, the headquarters of the district of Cachar in Assam. The location of the Institute is at a distance of about eight kilometres to the south of the town of Silchar on the Silchar-Hailakandi road. Cachar is the southernmost district of Assam bordering Mizoram on south, Manipur on east and Tripura and Meghalaya on west.

3. Campus

The campus of the Institute is spread over an area of 540 acres. It presents a spectacle of harmony in modern architecture, natural beauty and picturesque surroundings. The campus area has been organization in three functional sectors, viz.

- (a) Hostel for students.
- (b) Instructional Buildings and Administrative Block.
- (c) Residential sectors for the staff.

The instructional buildings have been so located that these are fairly near to both the hostels and the staff quarters.

There is a full-fledged branch of State Bank of India, a Post Office in the campus. The students & staff and also the villagers surrounding the campus get the facility of the SBI & Post Office. The Institute has its own Health Care Centre with a full-time Senior Medical Officer to attend to the emergency medical needs of the students, staff and their families. Patients suffering from serious illness, requiring intensive care, are referred to the Silchar Medical College & Hospital, which is only about two kilometres from the campus. The Institute have ambulance facility for shifting patient to the near by hospital. An adequately equipped canteen is there near the instructional zone and mini market complex which will provide facilities to the students and the staff during and beyond the working hours. There is a well equipped gymkhana and sports complex attached with a auditorium which are utilized by students for activity like gymnasium, indoor games and similar other pursuits.

4. Services

(a) Housekeeping of the campus (Except Hostel) : Departmentally
 (b) Housekeeping of the Hostels : Outsourced
 (c) Security Management of the campus : Outsourced
 (d) Maintenance of Civil & Electrical : Departmentally

5. Staff Structure

(A) Administrative:

SI. No.	Staff / Officers	Designation	Remarks
1	Dr. A. I. Laskar	Dean (P&D)	Regular
2	Dr. Debjit Bhowmik	Associate Dean (P&D)	Regular
3	Dr. J. P. Misra	Associate Dean (P&D)	Regular
4	Mr. Sikumar Chauhan	Assistant Engineer (E) & Estate (i/c)	Regular
5	Mr. Dhrubajyoti Chakraborty	Assistant Engineer (C)	Contractual
6	Mr. Rahul Suklabaidya	Junior Engineer (C)	Contractual
7	Mr. Bipon Sinha	Junior Engineer (E)	Contractual
8	Mr. Tapan Kumar Roy	Junior Engineer (E)	Contractual

(B) Supporting:

SI. No.	Staff / Officers	Designation	Remarks
1	Mr. Debabrata Barman	Sr. Assistant	Regular
2	Mr. Subasish Barman	Technician	Regular
3	Mr. Ashok Kurmi	Technician	Regular
4	Mr. Monoj Gopal Deb	Attendant SG-II	Regular

6. Infrasturcture

Name of building	Area (Sqm)			
Staff quarters:				
Director's Bungalow	195.00			
Professor quarters 7 units	1169.00			
Asst. Prof. quarters 6 units	868.00			
Type-D quarters 12 units	1344.00			
Type-C quarters 8 units	480.00			
Type-A quarters 12 units	540.00			
Lecturer's quarters 15 units	1200.00			
	Titers: Director's Bungalow Professor quarters 7 units Asst. Prof. quarters 6 units Type-D quarters 12 units Type-C quarters 8 units Type-A quarters 12 units			

8	Teachers' Flat 12 units	590.00
9	Grade-III quarters 56 units	3600.00
10	Grade-IV quarters 30 units	1350.00
11	Type-VI(EL) Prof. qtrs. 12 units (old)	2466.00
12	Type-VI(EL) Prof. qtrs. 12 units (new)	2466.00
13	Type-V(E) Asst Prof. qtrs. 21 units (old)	2787.00
14	Type-V(E) Asst Prof. qtrs. 21 units (new)	2787.00
15	Type-IV(E) Lecturer qtrs. 30 units (old)	2556.40
16	Type-IV(E) Lecturer qtrs. 30 units (new)	2556.40
17	Type-III – 100 units	9923.04
18	KendriyalaVidyalaya qtrs.	1183.38
	Sub Total (A) -	38061.22

Hostels		
19	Boys Hostel No.1	3600.00
20	Boys Hostel No.2	2620.00
21	Boys Hostel No.3	2620.00
22	Boys Hostel No.4	5030.00
23	Boys Hostel No.5	2894.00
24	Boys Hostel No.6	7950.00
25	Boys Hostel No.7	7950.00
26	Boys Hostel No.8	20654.52
27	Boys Hostel No.9	23560.00
28	Girls Hostel No.1	2114.00
29	Girls Hostel No.2	3303.00
30	Girls Hostel No.3	3303.00
31	300 capacity P.G Hostel & 100 capacity Married Scholar Hostel	12060.00
	Sub Total (B) -	97658.52

Academic	Academic bldgs., Guest House, KID-NITS School, Post Office, KV School etc.			
32	New Administrative building	8846.36		
33	Expansion of classroom	6974.00		
34	Mechanical Workshop building	2588.00		
35	Mechanical Department	1895.00		
36	Civil Engg. Dept	2799.00		
37	Electrical Engg. Dept.	1647.00		
38	ETE building	1137.00		
39	Central Store / Estate Branch	800.00		
40	Library building (old)	975.60		
41	Dispensary building	156.00		
42	Vertical Expansion Dispensary building	189.00		
43	Old Administrative building	800.00		
	I			

44	NIT Café	416.00
45	Classroom Expansion Pt. II	2800.00
46	Expansion of Physics Dept (ground floor)	470.00
47	Expansion of Physics Dept (first floor)	164.00
48	Expansion of Chemistry Dept (first floor)	470.00
49	Expansion of Chemistry Dept (ground floor)	164.00
50	CSE & ETE building (G+2)	7935.70
51	Humanities Dept (first floor)	105.00
52	Mathematics Dept (ground & first floor)	195.00
53	Training & placement dept (second floor)	386.00
54	Students Activity Centre	1145.00
55	KendriyalaVidyalaya	4642.70
56	New Library building	7987.77
57	Guest House (old)	216.00
58	Guest House (new)	4079.17
59	Post Office	118.57
60	Earthquake Engineering Laboratory	2734.00
61	Production Engineering Lab under Mech. Engg. Dept.	5361.00
62	New Academic building	7935.70
63	KID-NITS School	152.64
64	NABL building	790.56
65	Expansion of Electrical Engg. Dept	1152.41
66	Eat-Out Dhaba	970.91
67	Sports Complex (Indoor & outdoor)	12565.92
	Sub Total (C) -	91765.01

Grand Total (A+B+C) = 227484.75

VEHICLE MANAGEMENT

The Institute at present provides the following vehicles for various purposes as tabled below:

SI. No.	Vehicle Registration No.	Type of Vehicle	Purpose
1.	AS11E-5501(SX4)	MarutiCar	ForOfficeUse
2.	AS11B-0930	TataBus	Forstaff& students
3.	AS11B-2703	TataBus	Forstaff& students
4.	AS11C-0043	Ambassador Car	Forofficeuse
5.	AS11E-2416	MarutiVan	Fordifferentlyabledstaff& students
6.	AS11AC-5027(Ambulance)	MarutiVan	Medicalpurposeforstaff&students
7.	AS11D-7736 Donated by NIT Alumni	TataIndigoCar	ForT&P,Academic& Officepurpose
8.	B-2701/2702	Tractor&Trailor	EstateBranch
9.	AS11CC-0712	Travellor (Force) 9 seater Mini Bus	ForT&Pandothermisc.purpose

BOARD OF HOSTEL MANAGEMENT

Name	Designation	Qualification (e.g., B. Tech., M. Tech., Ph.D.)
Prof. M.A. Ahmed	Chairman	Ph. D
Dr. D.C. Das	Vice Chairman	Ph. D
All Asso. Wardens of Hostels	Members	

THE HOSTEL

NIT Silchar is a residential campus. It provides hostel accommodation for students. Separate hostel accommodation is available for girl students. Apart from that, family accommodation is also provided to the married Ph. D scholars. It is mandatory for all the students to stay in the hostels. However, under special and extraordinary cases a student may be permitted to live with his/her parents or local guardian at Silchar. Students permitted to stay outside hostels are exempted from payment of mess charges, electricity and water charges under hostels fees but they will have to pay the hostel establishment charges. The name, full address, office and residence telephone number, designation and willingness of local guardian have to be furnished at the time of admission. Room allotment in the hostels is done in such way that students from different regions of the country freely stay with each other, depicting national integration.

The Institute has 13 nos. of hostels for the students inside the campus. 9 for the boys (UG/PG separate), 3 for the girl students (UG/PG) and one for family accommodation to the married Ph. D Scholars. Hostels' capacity varies from hostel to hostel. Available capacity of boys' hostels all together (UG/PG) is 2675, the available capacity of girls' hostel (UG/PG) is 403 and available capacity of Married Scholar Hostel is 106.

List of Asso. Wardens of Hostel

WARDENS	S	pei	riod		
Hostel No.	Name	Designation	Department	from	to
1	Dr. T.R. Lenka	Ph. D	ECE	03/03/2015	04/09/2017
I	Dr. Pankaj Kumar Biswas	PhD	Mathematics	04/09/2017	Till Date
2	Dr. B.S. Sil	Ph. D	Civil	18/01/2016	Till Date
3.	Dr. N. Bhupendro Singh	Ph. D	HSS	3/11/2015	10/09/2017
3.	Dr.D.K.Ghose	PhD	Civil	11/09/2017	Till Date
4.	Dr. Ashraf Hossain	Ph. D	ECE	28/04/2015	04/09/2017
4.	Dr.R.Hazra	Ph.D	Civil 11/09/2017	Till Date	
5.	Dr. S.S. Dhar	Ph. D	Chemistry	08/08/2014	31/08/2017
5.	Dr. N. Ahir		01/09/2017	Till Date	
6	Mr. Saroj Kr Biswas	M.Tech	CSE	24/02/2015	04/09/2017
О	Dr. JagaDish	PhD	Mechanical	05/09/2017	Till Date
7	Dr. Arup Kr Goswami	Ph. D	EE	10/02/2015	04/09/2017
'	Dr. P.K. Gupta	PhD	Mathematics	05/09/2017	Till Date
8.	Dr. R.G Nair	Ph.D	Physics	04/02/2016	Till Date
GH-1	Dr. Nirmala Soren	Ph.D	EE	06/04/2015	Till Date
CLLO	Dr. Juthika Mohanta	Ph.D	Mathematics	10/04/2015	22/05/2017
GH-2	Dr. Munmun Khanra	PhD	E&I	23/05/2017	Till Date
GH-3	Dr. Banani Basu	PhD	ECE	18/07/2016	Till Date
PGH	Dr. A.K. Sunaniya	PhD	E&I	03/11/2016	Till Date
MSH	Dr. Sukumar Pati	PhD	Ме	15/12/2015	Till Daste

Following are the list of facilities available in the Hostels:

- 1. Chair, Table, Bed, Wardrobe, and Fan provided in each room
- 2. Round the clock water supply and power supply.
- 3. Diesel generator (centrally) available in case failure of power supply.
- 4. LAN/ Internet
- 5. Wi-Fi connection
- 6. Inverter.
- 7. Water cooler cum Purifier.
- 8. TV Hall with LED TV.
- 9. Newspaper and Magazine.
- 10. Photocopier (Xerox) in each hostel.
- 11. Ambulance service round the clock.
- 12. Coffee house provided.
- 13. Indoor game like, Table Tennis, carom, chess provided.
- 14. LPG connection and fire wood cook house available.
- 15. Dining hall with dining Table/chair provided
- 16. Fire Extinguisher provided.
- 17. Bio Gas plant provided. (Only Hostel 8)
- 18. Bi-cycle stand provided.
- 19. Badminton court with lighting arrangement available (Only BH-1 & GH-2).
- 20. Washing Machine provided to the Girls Hostels.

Following are the list of services available in the hostels:

- 1. Security service
- 2. Cleaning service
- 3. Food & catering service
- 4. Maintenance of civil, electrical, plumbing & sanitary services.
- 5. Maintenance of Aqua guard & cooling cum purifier service.
- 6. Hot water for bath during winter.
- 7. Managerial service provided for messing & Maintenance
- 8. Vehicle service provided for attending classes.

HEALTH CENTRE

The Institute has a Health Centre with a full time Medical Officer to attend the Medical needs of the students, staffs and their families. The Health Centre apart from providing allopathic medicine also offers Ayurvedic treatment, Dental treatment, dressing and first aid ,pushing saline and injection ,dispensing medicines, ECG, Laboratory facilities (Blood & Urine tests) etc.

Patients suffering from serious illness, requiring intensive care are referred to Silchar Medical College & Hospital (SMCH) which is about two kilometers from the campus. There is also a students' counsellor who offers counselling to the students.

Ambulance facility is also available round the clock for any medical emergency.

KENDRIYA VIDYALAYA

The 6th Academic Session for the year 2017-18 commenced from 1 st April 2017. The TotalEnrolment position of Students during the year was 885 with very healthy gender distribution of 457 boys and 428 girls. Atotal of 111 new

students were admitted in the Vidyalaya in the year 2017-18 with 85 of them in class I and 26 in other classes. In 2017-18, a total of 78 students appeared in CBSE Class-X Board Examination and 29 students appeared in Class-XII Board Examination. Out of these, 92.31% of students qualified Class X and 96.55% of students qualified Class XII examination. In Class-X, the highest percentage of marks was 94.8 % scored by Shivangi Verma. Similarly, the highest percentage of marks in Class XII was 94.6 % scored by Mihika Deb who also got Rs. 10.000/- prize money for standing in the top 1.5% of qualified students in CBSE nationwide merit. Various games and sports activities are regularly organized and conducted as an integral part of school curriculum in the Vidyalaya. Under the Sports category, the Vidyalaya has seen all-time high participation in the KVS Regional and National Sports Meets where 74 students participated in the KVS SIIchar Region Regional Sports Meet. Out of these 74 students, 14 students (including 5 girls) got selected for the KVS National Level Sports Meet in various events like Taekwondo, Skating, Chess, Rope skipping and Athletics. The students of the Vidyalaya very actively participated in Silverzone International Olympiad 2017-18 conducted in Mathematics, Science, English and Computer Subjects. A good number of students got Gold, Silver and Bronze Medals in each of these subjects. In addition, two students namely Purbita Banik, Class VII and Alisha Borah, Class VIII got selected for the 2nd level to compete for the top slots in Science Olympiad, and one student namely Dakshayani Sharma, Class VI got selected for the 2 nd level to compete for the top slots in English Olympiad. In the year 2017, several students from our Vidyalaya participated in KVS Cluster Level Social Science Exhibition out of which 2 students were selected to compete at the Regional Level of the Social Science Exhibition at Tejpur. A major event for the Vidyalaya was the 45 th Jawaharlal Nehru National Science Mathematics and Environment Exhibition for Children 2017-18 in which a large number of students from our Vidyalaya took very active part in the Regional Level program of the event and demonstrated their innovative ideas and concepts under various themes of the event through properly designed scientific models and exhibits. Five students from the Vidyalayawere selected in different themes for the KVS National Level program of the event that wasorganized by KV IIT Kanpur. Out of these, one Student namely Sourav Ghose, Class XI was selected for the National Level program of the Exhibition to be conducted by NCERT at Ahmedabad. Apart from students, teachers also brought laurels for the Vidyalaya. Our three teachers namely Mr. S. Umananda Sharma, TGT(P&HE), Mrs. Mayajyoti Dam, PRT and Mrs. Swagata Sen, PRT and one staff member namely Mr. Noni Gopal Nath, Sub-Staff were awarded with the prestigious KVS Regional Incentive Awards for the year 2017 for their hard work and full dedication put to their work-place.

Another great achievement of the Vidyalaya was that repetitively in the year 2017-18, KV NIT Silchar was awarded with the Green School or "Harit Vidyalaya Award-2017"-1st position out of 29 Vidyalayas presently working under KVS Silchar Region. During the session 2017-18, this Vidyalaya hosted many Regional Level programs like:

- i) Rajya Puraskar Testing Camp for Guides- 2017 held between 18.07.2017 to 22.07.2017 in which 93 guide students from different KVs were trained.
- ii) 30th KVS Regional Level Youth Parliament 2017 held on 21.08.2017 for KVS Silchar Region in which 277 students from five different KVs participated.
- iii) 45th Jawaharlal Nehru National Science Mathematics and Environment Exhibition for Children 2017-18 (KVS Silchar Regional Level) held on 29.01.2018 in which 125 students from 21 Vidyalaya participated. Regarding the Staff details, a total of eleven permanent teachers joined the Vidyalaya in the year 2017. Out of them, three teachers joined as PGTs, three other teachers joined as TGTs and the rest five teachers joined as PRTs in October 2017. One of the PRT teachers out of them has resigned from the post on ground of joining service in some other department.

The Vidyalaya has got a state-of-the-art infrastructure that is well equipped with various facilities including 3 well-furnished Science Labs, 1 E-class Room, Language Lab., Yoga Room, Games Room, Music Room, Dance Room, Work Education Room, Art Room, Medical Room, CMP Resource Room, 2 Computer Labs, 1 Mathematics Lab, 1 junior science lab, 1 huge library with very good stock of books. Clean and well-maintained bathrooms are situated in all corners of the building. The Vidyalaya has got well-furnished building protected with strong boundary walls all around and a beautiful garden in the front.

A group of highly qualified teachers are engaged in devoted work round the corner for all-round development of the students in the Vidyalaya. This School is running with proper plan guided by KVS Regional Office, Silchar to achieve all the targets.

KIDS-NITS

NIT Silchar has a school for the kids of the campus as well as nearby areas that runs three classes viz. Nursery, KG 1 and KG . Apart from celebrating Independence Day, Republic Day, Teachers' Day and Children's Day, the school has also organized Drawing and Sports Competition among the kids. The parents-teacher meet has been organized. The school has also organized Health Check-up for the school kids in NITS Health Centre.

SPORTS COMPLEX & GYM

The Sports Complex, NIT Silchar has training facilities for all the students and staff of this Institute. It has excellent infrastructure facilities for both outdoor and indoor games and sports. The outdoor games include Football, Cricket, Tennis, BasketBall (concrete) and Tennis. Flood Light facility is provided to all the outdoor games. The Indoor Games Complex (IGC) provides the following facilities:

Volleyball, Kabaddi, Kho-Kho, Basket Ball (concrete) and Tennis with Flood Light facility, Chess, Caroms, yoga room, Shuttle badminton with concrete flooring, Table Tennis, Weightlifting and 08, 16, & 21 stations multi-Gyms, Vibration belt, Rowing Machine, 0505 Treadmills, Bench for Incline & Decline, Twisting machine, Iron weight plates, Rubber weight plates, Iron Rod Dumbells etc. It has separate rooms for changing with bathroom and toilets attached. All the clubs of the institute such as literary club, photography club, Dramatic club, Gyansagar club, and Music club are there in the sports complex. It has the New Auditorium with 5000 seating capacity and a big stage.

GUEST HOUSE

The Institute Guest House, flanked by green lawns and colourful horticulture remains a pleasant haven for the Institute Guests, whether from academia or alumni or parents of the students. The state-of-the-art Guest House with all modern infrastructures is one of its kind in the North East. Some renowned personalities of the Nation in the likes of Former President of India and Bharat Ratna recipient Late Shri APJ Abdul Kalam and Hon'ble Minister of Railways, Shri Suresh PrabhakarPrabhu are eminent guests who stayed in the Guest House during their visit to this Valley.

POST OFFICE

The Institute has a sub Post Office within the campus. The sub Post Office has facilities like registration, money order, and speed post. The post office functions from 9.30 AM to 2.30 PM. Students and staff and people from the surrounding villages take advantage of the facilities of this Post Office.

BANK AND ATMS

A fully computerized full-fledged core-banking branch of State bank of India with ATM facility operates in this campus. The students, staff and people of the villages surrounding the campus avail the facilities of the Bank. There is one ATM of Punjab National Bank in the campus.

SHOPPING COMPLEX

There is one Shopping Complex inside the campus for tea, snacks, books etc. Almost all the household items required by both the students and faculties are available here.

CAFETARIA

A full-fledged Canteen, named NITS Café, is in operation catering quality foods to students, staff and visitors.

RESEARCH & CONSULTANCY

Research and consultancy is one of the most vital activities of the Institute since its inception. The Institute encourages R & C works that synchronises with the global technical advancements, with special emphasis on development of North-eastern region. The synergy of R & C facilities along with the diverse expertise of the faculty and dedicated students, the Institute is touching new heights of Innovation in terms of research. The Research & Promotion Cell (RPC) further helps to identify the young budding student researchers (UG/PG) and provide a unique platform to promote their innovative ideas. The academic curricula of all the disciplines is designed according to the current Industry needs and an initiative has been taken to establish a research park comprising of different pioneers of the Industry through MoUs.

RESEARCH DEVELOPMENT:

- Ph.D. Programme (specializations): In-
 - (i) Civil Engineering,
 - (ii) Mechanical Engineering,
 - (iii) Electrical Engineering,
 - (iv) Electronics& Communication Engineering,
 - (v) Computer Science and Engineering,
 - (vi) Electronics and Instrumentation Engineering,
 - (vii) Humanities and Social Sciences,
 - (viii) Mathematics,
 - (ix) Chemistry,

Ph.D. Produced/ Ongoing (in number):

Completed	Submitted	Ongoing
(i.e Degree was awarded during the 16 th Convocation of the Institute held on 23-06-2018)	48	425

Ongoing Sponsored Research Project:

ONGOING PROJECT:

SI. NO.	NAME OF THE PROJECT	PROJECT CO-ORDINATOR	Total amount sanctioned in Rupees	Date of sanctioning the grant	Name of Funding Agency
1.	Visvesvaraya PhD Scheme for Electronics and IT at National Institute of Technology Silchar	Dr. K.L. Baishnab, Department of Electronics & Communication Engineering	Rs. 30,990,000/-	10-09-2015	Ministry of Communication & Information Technology
2.	Special Manpower Development Programme for CHIPS to System Design (SMDP-C2SD)	Dr. K.L. Baishnab, Department of Electronics & Communication Engineering	Rs. 997,200,000/-	15-12-2014	DeitY
3.	Innovation and Entrepreneurship Development Centre (IEDC) at NIT Silchar	Dr. Ashim Kumar Das, Department of Management Studies	Rs. 13,30,000/-	10-03-2016	Department of Science & Technology

SI. NO.	NAME OF THE PROJECT	PROJECT CO-ORDINATOR	Total amount sanctioned in Rupees	Date of sanctioning the grant	Name of Funding Agency
4.	Standardisation of Measurement Protocol for overall Heat Transfer Co Efficient (U-Value) for Building Materials & Components for Indian Subcontinent	Dr. Biplab Das, Department of Mechanical Engineering	Rs. 16,99,500/-	22-03-2018	Department of Science & Technology
5.	The Third Generation's Inheritance of the Memory of Partition(1947): A Comparative study Across Spatial Axes	Dr. Avishek Ray, Department of Humanities & Social Sciences	Rs. 2,00,000/-	29-03-2017	ICSSR
6.	Towards the synthesis of bio- active molecules using solid phase organic synthesis (SPOS) pathways	Dr. Lalthazuala Rokhum, Department of Chemistry	Rs. 32,16,000/-	21-07-2014	Science and Engineering Research Board
7.	A Study on Measure Theoritical approach to Convergence of sequenxes in Probalistic normed Spaces	Dr. Mausumi Sen, Department of Mathematics	Rs. 15,35,520/-	14-10-2015	Science and Engineering Research Board
8.	Fabrication and Testing of Tandem Layered Quantum Dot Sensitized Solar Cell with Elevated Absorption	Dr. Ranjith G Nair, Department of Physics	Rs. 25,13,390/-	08-12-2016	Science and Engineering Research Board
9.	Condition Assessment & Reliability of Existing Bridges (Indian Railway & Others) in North East India due to earthquake and deterioration hazards	Dr. Arjun Sil, Department of Civil Engineering	Rs. 19,09,600/-	04-02-2017	Science and Engineering Research Board
10.	Numeric Study on Electrokinetic Flow through Polyelectrolyte coated Nanopore	Dr. Subrata Bera, Department of Mathematics	Rs. 25,47,140/-	16-02-2017	Science and Engineering Research Board
11.	Effect of metal doped TiO2 on photoanode and lead free organic-inorganic metal halide perovskite on photovoltaic performance of petovskite solar cell: experimental and theoretical approach	Dr. S.K.Tripathy, Department of Electronics & Communication Engineering	Rs. 42,38,585/-	22-03-2017	Science and Engineering Research Board
12.	Design and Development of Heat Pipe Embeded solar collector based latent heat storage system for domestic application	Dr. Biplab Das, Department of Mechanical Engineering	Rs. 27,21,000/-	09-03-2017	Science and Engineering Research Board
13.	A study on Effects of Sediment Load on river bank erosion in the Barak River System	Dr. Briti Sundar Sil, Department of Civil Engineering	Rs. 22,44,460/-	03-07-2017	Science and Engineering Research Board
14.	Spectroflurimetric Studies on Representative Nitrogen Heterocyclic Drugs and Their Interation with DNA Nucleotides	Dr N S Moyon, Department of Chemistry.	Rs. 33,09,000/-	06-07-2017	Science and Engineering Research Board
15.	Effects of variations in input- excitation on the performance of limited-sensors based operational model analysis	Dr. Nirmalendu Debnath, Department Civil Engineering	Rs. 31,66,612/-	18-03-2016	Science and Engineering Research Board

SI. NO.	NAME OF THE PROJECT	PROJECT CO-ORDINATOR	Total amount sanctioned in Rupees	Date of sanctioning the grant	Name of Funding Agency
30.	Development of EBG Structured Printed Antennas for Ultrawide Band Communication and Futuristic Modelling for prediction of performance Parameters using Computational Techniques	Dr. Taimoor Khan, Department of Electronics & Communication Engineering	Rs. 16,27,560/-	27-12-2016	Science and Engineering Research Board
31.	Design of Reconfigurable Defected Ground Structure Resonator for Wireless Application	Dr. Arnab Nandi, Department of Electronics & Communication Engineering	Rs. 23,40,000/-	08-07-2015	Science and Engineering Research Board
32.	Development & Testing of hybrid solar photovoltaic thermal (PVT) Air system for the composite environment of Northeast India for tea drying applications	Dr. Biplab Das, Department of Mechanical Engineering	Rs. 30,02,560/-	10-03-2018	Science and Engineering Research Board
33.	Installation of Solar Thermal Systems Industry at NIT Silchar for Testing & Research work	Dr. Agnimitra Biswas, Department of Mechanical Engineering	Rs. 73,86,150/-	26-03-2013	MNRE
34.	Unnat Bharat Abhiyan	Dr. Arup Kumar Goswami, Department of Electrical Engineering	Rs. 1,75,000/-	22-09-2015	MHRD

STAFF POSITION

I. Chief Academic & Executive Officer (Position as on 31.03.18)

Position	Name
Director	Prof. Sivaji Bandyopadhyay

Administrative Staff: (Position as on 31.03.18).

Name of the post	Sanctioned Strength	Staff in Position
Registrar	1	1
Deputy Registrar	3	1
Assistant Registrar	6	2
Librarian	1	1
Deputy Librarian	1	0
Assistant Librarian	1	1
SAS Officer	2	1
Sr. Technical Officer	1	1
Technical Officer	2	0
Executive Engineer	1	0
Engineer	2	0
Sr. Medical Officer	1	0
Medical Officer	2	1
Hindi Officer	1	0
Security Officer	2	0
Total	37	8

III. Academic Staff: (Position as on 31.03.18)

Name of the post	Sanctioned Strength	Staff in Position	
Professor		15	
Associate Professor	282	18	
Assistant Professor		109	
Trainee Teacher	0	2	
Total	282	144	

IV. Faculty Position as on 31.03.18 (Department -wise break up)

S. No	Department	Professor	Associate Professor	Assistant Professor	Trainee Teacher	Total
1	Civil Engineering	7	3	16	1	27
2	Mechanical Engineering	3	5	16	0	24
3	Electrical Engineering	2	3	11	0	16
4	Electronics and Communication Engineering	2	3	14	1	20
5	Computer Science and Engineering	0	1	14	0	15
6	Electronics and Instrumentation Engineering	0	0	9	0	9
7	Mathematics	0	2	10	0	12
8	Physics	0	1	6	0	7
9	Chemistry	0	0	7	0	7
10	Humanities and Social Sciences	1	0	4	0	5
11	Management Studies	0	0	2	0	2
Tota	al	15	18	109	2	144

V. Ministerial Higher Staff (as on 31.03.2018)

Name of the post	Sanctioned Strength	Staff in Position
Superintendent/Accountant/ Secretary	9	0
Sr. Superintendent/Accountant/ Secretary	8	1
Superintendent/Accountant/ Secretary (SG-II)	5	0
Jr. Hindi Translator	1	0
Total	23	1

VI. Technical Higher Staff (as on 31.03.2018)

Name of the post	Sanctioned Strength	Staff in Position
Technical Assistant / SAS Assistant / Junior Engineer	38	1
Sr. Technical Assistant / Sr. SAS Assistant / Assistant Engineer	28	1
Technical Assistant / SAS Assistant / Assistant Engineer (SG-II)	13	0
Total	79	2

VII. Ministerial Lower Staff (as on 31.03.2018).

Name of the post	Sanctioned Strength	Staff in Position
Junior Assistant	20	0
Senior Assistant / Stenographer	16	1
Assistant (SG-II) / Senior Stenographer/Assistant (SG-I)/ Stenographer(SG-I)	11	5
Hindi Typist	1	0
Total	48	6

VIII. Technical Lower Staff (as on 31.03.2018)

Name of the post	Sanctioned Strength	Staff in Position
Technician/Laboratory Asstt./Work Asstt	38	3
Sr. Technician/ Laboratory Asstt./Work Asstt	28	1
Technician/ Laboratory Asstt./ Work Asstt. (SG – II & SG-I)	19	7
Total	85	11

IX. Supporting Staff (as on 31.03.2018)

Name of the post	Sanctioned Strength	Staff in Position
Supporting Staff (Attendant / Mali/Security Guard)	41	69
Total	41	69

X. Fresh Appointments Teaching (From 01.04.17 to 31.3.18)

S. No.	Name	Designation	Department	Date of Joining
		Nil		

XI. Appointments of Non-Teaching (Contractual) (During 2017 - 2018)

S. No.	Name	Designation	Date of Joining	
		Nil		

XII. Appointments of Teaching (Contractual) (During 2017 - 2018)

SI. No.	Name	Name Designation	
1.	Mr. Prasenjit Kumar Das	Assistant Professor (Contractual)	
2.	Ms. Bahnishikha Dutta	Temporary Faculty	
3.	Irshed Hussain	Temporary Faculty	Computer Science & Engineering
4.	Ms. Saswati Rakshit	Temporary Faculty	Linguicering
5.	Ms. Puja Sarkar	Temporary Faculty	
6.	Ms. Upasana Talukdar	Temporary Faculty	
7.	Mr. SoumyaSamanta	Assistant Professor (Contractual)	
8.	Ms. Rumi Rajbongshi	Temporary Faculty	
9.	Mr. Bivas Roy	Assistant Professor (Contractual)	
10.	Mr. Arunima Dutta	Assistant Professor (Contractual)	
11.	Mr. Arka Das	Temporary Faculty	
12.	Mr. Nayan Kumar	Temporary Faculty	
13.	Mr. Ankit Kumar Singh	Temporary Faculty	Flootide of Fooding and a
14.	Mr.Chiranjit Adhikary	Temporary Faculty	Electrical Engineering
15.	Ms. Anulekha Saha	Temporary Faculty	
16.	Mr. Suman Sutradhar	Temporary Faculty	

SI. No.	Name	Designation	Department
17.	Mr. Arindam Das	Temporary Faculty	
18.	Mr. Radhe Gobinda Debnath	Temporary Faculty	
19.	Ms. K. Lochan	Temporary Faculty	
20.	Mr. Partha Pratim Paul	Temporary Faculty	
21.	Mr. Avatar Singh	Temporary Faculty	
22.	Mr. ChandanDawo	Temporary Faculty	
23.	Mr. Bivas Roy	Temporary Faculty	
24.	Mr. Surajit Sarkar	Temporary Faculty	Electronics &
25.	Mr. Ritwik Chattaraj	Temporary Faculty	Instrumentation Engineering
26.	Mr. Kalyan Bhattacharjee	Temporary Faculty	Linginoching
27.	Mr. Anupam Sarma	Temporary Faculty	
28.	Mr. RupamGoswami	Temporary Faculty	
29.	Mr. Chandrajit Choudhury	Temporary Faculty	
30.	Mr. Amlan Nag	Temporary Faculty	
31.	Mr. Saurav Roy	Temporary Faculty	
32.	Ms. Swagata Devi	Temporary Faculty	Electronics &
33.	Ms. Salam Shuleenda Devi	Temporary Faculty	Communication Engineering
34.	Mr. Manalee Dev Sharma	Temporary Faculty	Lingineening
35.	Ms. Karabi Baruah	Temporary Faculty	
36.	Dr. Jayendra Kumar	Temporary Faculty	
37.	Mr. Arkka Bhattacherjee	Temporary Faculty	
38.	Ms. Osor Pertin	Temporary Faculty	
39.	Mr. Abhijit Chakraborty	Temporary Faculty	
40.	Mr. Ujjwal Kanti Paul	Temporary Faculty	
41.	Ms. Tanaya Nayak	Temporary Faculty	
42.	Mr. Rama Koteswara Rao Kondasani	Temporary Faculty	
43.	Mr. L. A. Meetei	Temporary Faculty	Management Studies
44.	Ms. Manisha Goswami	Guest Faculty	Ivianagement Studies
45.	Dr. Manasi Rastogi	Guest Faculty	
46.	Ms. Sona Srivasta	Temporary Faculty	
47.	Mr. Saroj Kumar Koiri	Temporary Faculty	
48.	Mr. Subhadeep Mukherjee	Temporary Faculty	
49.	Mr. Saurav Dey	Temporary Faculty	
50.	Mr. Sivadasan M	Temporary Faculty	
51.	Dr. Anal Rajan Sengupta	Temporary Faculty	
52.	Mr. Deepak Sharma	Temporary Faculty	Mechanical
53.	Mr. Gautam Choubey	Temporary Faculty	Engineering

SI. No.	Name	Designation	Department	
54.	Mr. Abhijit Dey	Temporary Faculty		
55.	Mr. Prabhakar Jha	Temporary Faculty		
56.	Dr. Kh. Shantakumar Singh	Temporary Faculty	Physics	
57.	Mrs. Piya Biswas	Temporary Faculty		
58.	Mr. Subhash Sabu	Temporary Faculty		
59.	Mr. Rimen Jamatia	Temporary Faculty		
60.	Mr. Mehboob Elahi Laskar	Temporary Faculty		
61.	Mr. Debasish Dutta	Temporary Faculty		
62.	Mr. Rajasubramaniam S	Temporary Faculty	Civil Engineering	
63.	Mr. Sukanta Das	Temporary Faculty		
64.	Mr. Biswajit Roy	Temporary Faculty		
65.	Mr. Subhash sarmah	Temporary Faculty		
66.	Mr. Palash Dey	Temporary Faculty		
67.	Mr. Ruhul Amin Mazumder	Temporary Faculty		
68.	Mr. Tarique Aman Mazumder	Temporary Faculty		
69.	Dr. Sutanuka Banerjee	Temporary Faculty	Humanities & Social	
70.	Mr. Subroto Chowdhury	Temporary Faculty	Sciences	
71.	Dr. Rajashree Dutta Purkayastha	Temporary Faculty		
72.	Dr. Sutapa Chakraborty	Temporary Faculty	Chamaintus	
73.	Dr. Najrul Hussain	Temporary Faculty	Chemistry	
74.	Dr. Dipannita Das	Temporary Faculty		
75.	Dr. Balaji Roy	Temporary Faculty	Maths	

XIII. Retirement / Resignation (From 01.04.17 to 31.3.18)

SI. No.	Name	Designation	Date of Retirement / Resignation	
1	Mr. Bijan Bhattacharjee	Technician (SG – I)	30/04/2017	
2	Mr. Ranjit Gope	Technician (SG - I)	30/04/2017	
3	Ms. Janak N. Nunia	Assistant (SG-I)	30/06/2017	
4	Mr. Ram Singhasan Chauhan	Assistant (SG-I)	31/07/2017	
5	Mr. Rajendra Kr. Pandey	Attendant (SG-I)	31/08/2017	
6	Mr. Anuj Kr. Paul	Attendant (SG-I)	31/09/2017	
7	Mr. Sukesh Rn. Deb	Attendant (SG-I)	31/10/2017	
8	Ms. Sandhya Rani Deb	Attendant (SG-II)	31/10/2017	
9	Mr. Makkadas Ali Barbhuiya	Assistant (SG-I)	30/11/2017	
10	Mr. Sudipta Bhattacharjee	Stenographer (SG - I)	31/12/2017	
11	Mr. Samsur Uddin Mazumder	Attendant (SG-I)	31/12/2017	

XIV. Death In Harness (From 01.04.17 to 31.3.18)

SI. No.	Name	Designation	Date of Expiry
1	Dr. Ashok Kr. Sinha	Professor	12/11/2017
2	Dr. P. Rajbongshi	Associate Professor	17/09/2017

XV. Voluntary Retirement Scheme (From 01.04.17 to 31.3.18)

S No.	Name	Designation	Date of Retirement / Resignation
1	Dr. Tuithug Shimreiphy Dutta	Sr. Medical Officer	31/01/2018
2	Mr. Ajoy Moni Nath	Attendant (SG-II)	31/10/2017
3	Mr. Atul Ch. Deb	Attendant (SG-II)	31/12/2017

TEQIP-II

Introduction to TEQIP-III

Technical Education Quality improvement Programme (TEQIP) is a World Bank and MHRD funded project for the technical Institutions for improving the quality of Engineering Education in existing institutions with a special consideration for Low Income States and Special Category States (SCS) and support to strengthen few affiliated technical universities to improve their policy, academic and management practices.

TEQIP seeks to enhance quality and equity in participating engineering education institutions and improve the efficiency of the engineering education system in focus states. The Project supports two components:

- Component 1: Improving quality and equity in engineering institutions in focus states
- o <u>Sub-component 1.1</u>: Institutional Development for Participating Institutions
 - An estimated 90 Engineering Education institutions meeting (progressively) the enabling mechanisms and based on quality of Institutional Development Proposals (IDPs), will be selected.
- o <u>Sub-component 1.2</u>: Widening Impact through ATUs in focus states
 - An estimated 8 ATUs meeting the enabling mechanisms will be selected with matching contribution equal to project allocation.
- Sub-component 1.3: Twinning Arrangements to Build Capacity and Improve Performance of Participating Institutions and ATUs
 - Institutions (already participated in TEQIP-I and/or II)/ATUs will be selected on a competitive basis based on pre-defined eligibility criteria. The evaluation will be based on quality of IDPs. The proposal should include establishing a mentoring system for twinning arrangements to build the capacity and improvement in performance of institution/ATUs participating under sub-component 1.1/1.2 respectively.
- Component 2: System Level initiatives to strengthen sector governance and performance
- This component will support MHRD and key apex bodies in engineering education, including AICTE and NBA, to strengthen the overall system of engineering education.
 - NIT Silchar has successfully completed Phase I and Phase II of TEQIP project. Presently NIT Silchar is under TEQIP phase III, Sub Component 1.3. Under Twinning arrangements NIT Silchar is selected as Mentor Institute for Gauhati University Institute of Science Technology (GUIST), Gauhati.

TEQIP-III: Project Scope

Only the Government and Government aided AICTE approved Engineering institutions/Engineering faculty/ Engineering Teaching Department/Constituent Institutions of Universities/Deemed to be Universities and new centrally funded institutions in SCS will be the part of the project.

An estimated 200 Government and Government funded Engineering institutions including Affiliating Technical Universities (ATUs) will be selected under different sub-components in one or two cycles.

TEQIP-III: Project Objectives

The Project will focus on the following objectives:

- Improving quality and equity in engineering institutions in focus states viz. 7 Low Income States (LIS), eight states in the North-East of India, three Hill states viz. Himachal Pradesh, Jammu & Kashmir, Uttarakhand and Andaman and Nicobar Islands (a union territory (UT))
- System-level initiatives to strengthen sector governance and performance which include widening the scope
 of Affiliating Technical Universities (ATUs) to improve their policy, academic and management practices towards
 affiliated institutions, and
- Twinning Arrangements to Build Capacity and Improve Performance of institutions and ATUs participating in focus states.

TEQIP-III NIT Silchar Fund Allocation under Sub- Component 1.3 Total Fund Allocation = 700 lacs

Indicative Category-wise Funding for Key Activities of NIT Silchar under Subcomponent 1.3

SI. No	Key activities	Category of Expenditure (Head of expenditure)	Description	% of share	Percenta ge (%)	Cost (Rs. in lacs)
1	Procurement of Goods		Books and LRs	15		
	(equipment, furniture, books LRs, software and minor items) and civil	Procurement	Equipment	15	Up to	350
	works for improvement in teaching,	Fioculement	Furniture	5	50%	
	training and learning facilities		Services	10		
			Civil Works	5		
2	Improvement in Teaching, Learning and Research competence'		mprove student learning	10	At least 40%	280
	 Improve student learning Student employability Increasing faculty productivity and motivation 		□Student employability	10		
	Establishing a twinning systemTwining arrangements with institutions under	Academic	□Increasing faculty productivity and motivation	10		
	Subcomponent 1.1 to build capacity and improved performance o Individual institutional mentors		□Establishing a twinning system	10		
3	Incremental Operating Cost	IOC			Up to 10%	70
	TOTAL				100	700

Outside Conferences/seminar/worksops attended by Faculty. (April 17 – Mar 18)

SI	Name	Deptt	Topic	Date	Venue/Place
1	Dr. Dulal Ch. Das	EE	Demand response strategy for frequency control of parabolic dish solar thermal diesel based microgrid.	7-8 Dec 17	Palladam, India
2	Dr.Trupti Ranjan Lenka	ECE	Device optimization of E- Mode N polar GaN MOS-HEMT for Low noise RFR & Microwave applications and Dielectric Modulated AIGaAs/ GaAs HEMT for Label free detection of Biomolecules.		IIT, Delhi
3	Mr. Lalu Seban	E&IE	Development of parsimonious orthonormal basis function models using particle swarm optimization.	6-8 Dec 17	IIT, Kanpur

In House worksops organized under the aegis of TEQIP-III at NIT Silchar in 2017-2018

SI. No.	Date	Topic	Deptt.	Coordinator	Туре
1	18-20 Aug 2017	PLC Mitsubishi	EE	Dr. B.K. Roy	Training
2	25 – 26 Aug 2017	Train the trainer (MOOCS)	EE	Dr. NBD Choudhury & Dr. Kishor Ch Satpathy	Workshop
3	02 –03 Sep 2017	Electronics system design and manufacturing using Orcad PSpice	EE	Dr.T. Malakar & Mr. C. Bhattacharjee	Workshop
4	11-15 Sep 2017	Advances in Neural Network and its Application	CSE	Dr.Pinki Roy & Dr. S.K. Biswas	Workshop
5	06– 10 Oct 2017	Modeling River Flow Processes	CE	Dr.P.J. Roy & Dr.P. Choudhury	Hands on Training
6	26 Oct 2017	Institute Industry Interaction	EE	Dr. NBD Choudhury	Industry Interaction
7	23-24 Jan 2018	Expert Lecture under Induction Program	ME	Dr. Sukumar Pati	Expert Lecture
8	24 Jan 2018	Image processing and its applications	ECE & CSE	Dr. K.L.Baisnab	Invited Talk
9	25 Jan 2018	Invited Talk on Data Science	CSE	Dr. S. K. Biswas & Dr. S.Mukherjee	Invited Talk
10	13-17 Feb 2018	Recent advances on water and environment studies	CE	Dr. D.K.Ghose	STTP
11	16-19 Feb 2018	Students event	All Students	Dr. N. B. Singh	Students event
12	12-16 Mar 2018	Recent trends in communication signal processing and solid state device	EIE	Dr.R Hazra, Dr. A.K Sunaniya, Mr. Sudarsan Sahoo	STTP
13	21-26 Mar 2018	Data Acquisition and LabView Applications	EIE	Dr.S.H.Laskar	STTP
14	23 Mar 2018	3 rd Meet initiated by Mitsubishi	EE	Dr. B.K. Roy	Training
15	28 Mar 2018	Expert lecture by eminent environment specialist	ME	Dr. Sukumar Pati	Expert Lecture
16	26-30 Mar 18	Industry Academic workshop on Advanced Materials Fabrication and Characterization Techniques(AMFCT-2018)	Physics	Dr. Ranjith G. Nair	workshop

Outside Conferences/seminar/worksops attended by Students. (April 17 - Mar 18)

Name of Student	Scholar No	Designation	Departmen t	Date	Venue	Topic
Shulanki Pal	15-3-01- 113	PhD	CE	7-8 March 18	IIT Roorkee	Utilization of structural vibration response using tuned liquid damper under random earthquake
Pankaj Prakash	16-23- 209	M.Tech	EE	18-22 Feb 18	Hyderabad	Fractional order memsistor based chaotic jerk system with no equisition point and its FO back stepping control
Radhe Tado	16-22- 303	M.Tech	ME	22-23 Feb 18	Mumbai	Computational study of blood flow analysis for coronary Artery disease
Monoja Kumar Sahu	15-3-02- 122	PhD	ME	10-11 Feb 18	Vishakapat nam	Numeric Investigation of Thermal Hydroluic performance of Channel with protrusions by turbulent cross flow jet
Gopal Chandra Pal	16-22- 110	M.Tech	ME	10-11 Feb 18	Vishakapat nam	Numeric Study of unsteady natural convection from a pair of cylinders in an elctosure with sinusodial bottom wall
Bandi Venkata Ramana Reddy	16-3-02- 104	PhD	ME	24-25 Jan 18	Guntur	Characterization of small termed Al-Alloys
Parag Jyoti Bera	14-1-2- 033	B.Tech	ME	10-11 Feb 18	Vishakapat nam	Comparative study between packed bed thermal energy storage systems using phase change material encapsulatic
Chiranjib Bhowmik	14-3-02- 102	PhD	ME	4-6 Jan 18	Jadavpur University	Selection of green energy sources : An Entropy Approach
Lakka Suneetha	16-3-02- 105	PhD	ME	24-25 Jan 18	ANUG, AP	Advances in Flame stabilizarion process on dual mode scramjet
Saurabh Tripathi	16-22- 104	M.Tech	ME	10-11 Feb 18	Vishakapat nam	Computational study on effect of obstacles pulse detonation engine
Bappa Mondal	16-3-02- 106	PhD	ME	10-11 Feb 18	Vishakapat nam	Numerical Investigation of effect of obstacle on mixing length of micromixes
Suman Kumar Ram	16-24- 209	M.Tech	ECE	15-17 March 18	IIT Dhanbad	A dual band microstrip antenna integratted with RDRA for uplink & downlink Cband communication
Wangkheirakp am Vandana Devi	16-24- 106	M.Tech	ECE	15-16 Feb 18	Erode, India	Optimization of N+ heterp packet doped dual metal vertical TFET

Name of Student	Scholar No	Designation	Departmen t	Date	Venue	Topic
Rishikanta Mayengbam	16-3-04- 107	PhD	ECE	10-11 Feb 18	Vishakapat nam	First principles calculation of structural electronic and optical properties of CdAl2Te4S.C
Anand Jee	16-24- 2081	M.Tech	ECE	22-23 Feb 18	Delhi	Analysis of link maintenance probability for cognitive radio
Rohit Pratap Singh	17-3-05- 112	PhD	CSE	1-5 Jan 18	IIT Guwahati	Workshop on Modeling and Verification of cyber physical systems
Subhajit Das	17-3-06- 102	PhD	E&IE	5-11 March 18	NIT Mizoram	Workshop on VLSI Design using FPGA tools
Prabhujit Mohapatra	13-3-22- 101	PhD	Math	8-9 Feb 18	New Delhi	CSO Techinique for solving economic dispatch problem considering the constrainsla
Subhradeep Dhar	16-3-01- 105	PhD	CE	14-16 Dec 17	IIT Guwahati	Performance evaluation of lime stabilised sub grade soil using light weight deflectometer
Abhinaba Paul	15-3-01- 110	PhD	CE	14-16 Dec 17	IIT Guwahati	Experimental Model Study.
Utpal Maity	16-21- 203	M.Tech	CE	18-27 Dec 17	IIT Guwahati	Risk based damage tollerent seismic design of structure
Mayank Sukhija	16-21- 319	M. Tech	CE	8-11 March 18	IIT Guwahati	A comparative study on permeability characterization of Bituminous mixes under field and Lab Conditions
Partha Pratim Sarkar	18-03-01- 104	PhD	CE	17-18 March 18	IIT Roorkee	Workshop on SWARM and evolutionary algorithms.
Utsab Rakshit	16-23- 211	M.Tech	EE	3-4 Nov 17	Hyderabad	Study on longitudial forces of a freight train for different types of wagon connectors
Chinmaya Behera	15-3-03- 128	PhD	EE	15-17 Dec 17	IIT Roorkee	A fuzzy based crew selection
Debasis Tripathy	15-3-03- 102	PhD	EE	23-24 Dec 17	IIT BBSR	Performance comparison of SMO Based Fuzzy PID Controller for Load freq. control
Rajesh Panda	16-3-03- 102	PhD	EE	14-16 March 18	New Delhi	Profit maximization by joint operation of solar battery storage system in a Ren.Int. dereguated power system
Debasis Dash	15-3-03- 121	PhD	EE	6-8 Dec 17	IIT Roorkee	A density functional theory based analysis on the structural electronic and mechanical properties.

Name of Student	Scholar No	Designation	Departmen t	Date	Venue	Topic
Saumitra Barman	16-23- 202	M.Tech	EE	18-22 Feb 18	Hyderabad	Design and implementation of an IDA PBC for grid connected inverter used photorol system
Anirudh Nath	15-3-03- 105	PhD	EE	18-22 Feb 18	Telangana	Physiological models and control for type 1 Diabetes Mellitus: A brief review
Lokeswar Patnaik	17-3-02- 113	PhD	ME	21-23 Dec 17	SVNIT Surat	Effect of roller burnishing on surface roughness and micro hardness of AA6082 alloy using Box
Pradeep Kumar Karsh	16-3-02- 102	PhD	ME	28-30 Dec 17	IIT Kharagpur	Stochastic frequency response function analysis of functioning
Vaishali	16-22- 401	M.Tech	ME	28-30 Dec 17	IIT Kharagpur	Effect of skewness on stochastic natural frequency of sandwich plates
Abhijeet Kumar	16-22- 305	M.Tech	ME	29 Nov- 2 Dec 17	IIT Guwahati	PNN based stochastic natural frequency analysis of FGP
Shivani Verma	14-1-2- 016	B.Tech	ME	22-23 Feb 18	Mumbai	Design and fabrication of smart ovadruped robot
Sumit Kumar Mehta	17-3-02- 115	PhD	ME	10-11 Feb 18	Vishakapat nam	Thermo hydraulic analysis for flow through triangular corrugerted channel
Dhiraj Raj	16-22- 409	M.Tech	ME	24-25 Jan 18	Andhra Pradesh	Laser Beam Micromachining of Metals: A Review
Navin Niraj	16-22- 208	M.Tech	ME	15-18 March 18	Hyderabad	Tribological behaviour of magnesium matrix composite preforced composite with fly ash cerospehere
Ajay Kumar Yadav	16-22- 214	M.Tech	ME	15-18 March 18	Hyderabad	Aluminium metal matrix composite with rice Husis as reinforcement : A review
Netrananda Behera	16-22- 204	M.Tech	ME	16-18 March 18	Hyderabad	Modeling and simulation of interface stabilising in metal matrix composite subjected to off axis loading using cohesive cone model under elected temperature
Sanjay Kumar Gupta	15-3-02- 101	PhD	ME	27-30 Dec 17	Hyderabad	Study on flow bonding critical heat flow enhancement of Al2O3/ water Nanofluid
Chiranjibi Champatiray	16-22- 202	M. Tech	ME	23-24 March 18	Jaipur	Supplier selection using multi objective optimization based on ratio Analysis (MOORA)

Name of Student	Scholar No	Designation	Departmen t	Date	Venue	Topic
Girija Sankar Murmu	16-2-2- 206	M. Tech	ME	23-24 March 18	Jaipur	Taguctic based sis sigma to optimize turning process by effects of machinery parameters
Shyamal Das	17-3-02- 117	PhD	ME	26 Feb- 2 Mar 18	NIT Agartala	Engine combustion and emission diagnostics
Suman Kumar Ram	16-24- 209	M.Tech	ECE	15-17 March 18	Dhanbad	A dual band microstrip antenna integratted with RDRA for uplink & downlink Cband communication
Rizwan Ahmed	15-1-4- 045	B.Tech	ECE	30-31 Dec 17	Kolkata	Compact Dual band monopole antenna with improved bandwidth for wimax and WLAn application
Rohan Kumar Gupta	16-24- 202	M. Tech	ECE	24-25 Feb 18	MANIT Bhopal	Lifetime enhancement of WSN using evolutionary clustering and routing algorithms
Monali Bordoloi	15-3-05- 107	PhD	CSE	20-21 Dec 17	Hyderabad	Sentiment analysis of product using machine learning techiniques
Heisnam Rohen Singh	14-3-05- 109	PhD	CSE	20-21 Dec 17	Hyderabad	Transparent neuro fuzzy model for linguistic variables selection and rule based classification
Saswati Debnath	15-3-05- 106	PhD	CSE	20-21 Dec 17	Hyderabad	Isolated word recognition based on different statistical analysis and earthquake selection
Rajdeep Ghosh	14-3-05- 105	PhD	CSE	26 Feb- 2 Mar 18	IIT Guwahati	GIAN Course on Brain computer interfaces for speech communication
Pratap Khuntia	16-3-06- 104	PhD	E&IE	15-17 March 18	ISM Dhanbad	Resource sharing for device to device comm underlying cellular NCF
Arpita Paul Chowdhury	15-3-23- 105	PhD	Chemistry	19-20 Jan 18	Kolkata	Synthesis and characterisation of Biocl
Ajoy Dutta	15-3-22- 101	PhD	Mathematic s	1-3 Dec 17	VIT Vellore	Approximate analytical solution of HIV/AIDS dynamic model during primary interaction
Sangita Saha	15-3-22- 103	PhD	Mathematic s	29 Dec - 2 Dec 17	IIT Guwahati	Some New classes of satisfactory pre cauchey triple sequences of fuzzy numbers designed by Orliez function

Name of Student	Scholar No	Designation	Departmen t	Date	Venue	Topic
Sri Srinivasa Raju Modampuri	16-47- 108	M.Sc	Mathematic s	27-28 March 18	NIT Warangal	Forced convection past a sphere for liquid metals.
Amar Kumar Barik	15-3-03- 103	PhD	EE	28-30 March 18	Odisha	Active power management of isolated renewable microgridusing SSA
Ankit Shahi	16-23- 103	M.Tech	EE	28-30 March 18	Odisha	A study & analysis of fuzzy based P&U mppt scheme in pmsg based wind turbine
Debasis Tripathy	15-3-03- 102	PhD	EE	28-30 March 18	Odisha	Spider monkey optimization based fuzzy 2D-PID contolles for LFC in two area multi source
Monoja Kumar Sahu	15-3-02- 122	PhD	ME	23-24 March 18	Coimbatore	Numerical investigation of thermal hydroluic performance of channel with protrusions by turbulent cross flow jet
Noor Alam	15-3-02- 110	PhD	ME	23-24 March 18	Coimbatore	Mumerical investigation of combustion phenomena in pulse detevation engine with different fuels.
Amiya Dey	16-3-04- 102	PhD	ECE	2-3 Dec 17	Kolkata	Competency of MLID decorrector receiver for users in engine user DS- CDMA system
Ankur Jain	15-3-03- 112	PhD	EE	26-27 March 18	MNIT Jaipur	Trade off between quality of control and quality of service for networked vehicles cruise control
Dhiraj Raj	16-22- 409	M.Tech	ME	22-Feb- 18	IIT Kanpur	Scanning Election Microscope (W-SEM)

Awards and **Achievements**

NIT SIIchar has secured 57thposition amongst all the engineering universities in India as per NIRF 2018 data. It is also the 12thamongst all the NITs as per the same ranking, with a score of 43.09.

Below is a comprehensive list of the awards and achievements of the NITS student fraternity, 2016-17.

Date	Event	Position Secured	Place
11/10/2017	Inter college Football Tournament	Winner	SMC Silchar
12/01/2018	All India Inter NIT tournament of Kabaddi	Reached Quarter Final	NIT Suratkhal
26/01/2018	Spring Fest (Cultural Team)	2 nd & 3 rd Posittion	IIT Kharagpur
22/02/2018	All India Inter NIT tournament of Table Tennis & Chess (Boys & Girls)	3 rd Position in TT & Chess (Boys) and 6 th position in Chess (Girls)	NIT Kurukshetra
12-02-2017	T. G Baruah Memorial 7th Edition of Youth & U-21 Years State Karate Championship	3 rd Position	DTRP Indoor Stadium, Guwahati, Assam
2017	Voluntary Blood Donation	4 th position	Assam State AIDS Control Society and Assam State Blood Transfusion Council
2017	NIT Conclave	1 st position	
2017	NPTEL Examination	5 th position	IIT Kharagpur,
2017	Inter NIT Chess Championship	3rd position	New Delhi
2017	National Level Quiz Competition	1 st position	New Delhi
2017	Startup Center	AAU RARE AWARD	AAU, West Bengal
2017	Startup Center	TOP 300 Startup of India	Festival of Innovation and Entrepreneurship 2018 at Rashtrapati Bhawan

Glimpses of Annual Activities



Posua-The Spring Fest- 2017



NIT Conclave 2017



Governor Assam at NIT Conclave



16th Convocation of NIT Silchar - 2017



Convocation-2017



Spring tales: Rangmanch The drama competition



CACTAS performance



Orientation Program -2017



Orientation Program - 2017



Fresher's Welcome Party- 2017



Fresher's welcome party- 2017



Independence Day Celebrations Nukkad-2017



Independence Day Parade 2017



Blood Donation Camp 15th August 2017



Independence Day Parade by the NCC cadets of NIT Silchar 2017



Dahi Handi: Celebration of Krishna Janmashthami 2017



Dahi Handi: Celebration of Krishna Janmashthami 2017



Hindi Diwas 2017



Hindi Diwas 2017



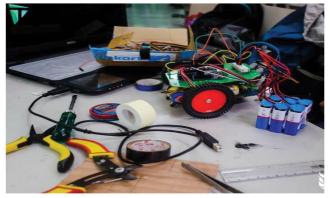
Prize distribution Ceremony of Annual Techno Cultural Fest: Technosis 2017



Moti Khan at Technosis 2017



Nalayak Band at SPARK, during Technosis 2017



Robowar at Tecnoesis 2018



Tecnoesis 2017



8th Alumni Meet 2017



8th Alumni Meet 2017



National Education Day



National Education Day



Run for Unity (Ekta Daud): Celebration of Rashtriya Ekta Saptah



Run for Unity (Ekta Daud): Celebration of Rashtriya Ekta Saptah



Inter hostel Volley ball tournament



Inter hostel football tournament



Magh Bihu celebration



Swachhta Pakhwara 2017



Swachhta Pakhwara 2017



Kaladarshan



Republic Day 2018



Republic Day Parade 2018



Blood Donation Camp 26th January 2018



Athleton- 2018



Athleton- 2018



Athleton- 2018



Foundation day



Plantation at Foundation day



National Youth Day 2018



National Youth Day 2018



Candle March



Cloth Donation



Rabindranath



Rabindranath



Vigilance Awareness week 2017



Vigilance Awareness week 2017



Inaugural Ceremony of Incandescence 2018



Inaugural Ceremony of Incandescence 2018



Performance in Natraj, Incandesence 2018



The Stand-up Comedian in Incandescence 2018



Guest Lecturer in Incandescence 2018



Performance in Incandescence 2018



Glitterati, the fashion show: Incandescence 2018



Herfunmoula Performing in Incandescence 2018



A student performing in Incandescence 2018



As we keep searching Performing in Incandescence 2018



Prom Night: Incandescence 2018



Incandescence 2018



Student performing in Incandescence 2018



Student performing in Incandescence 2018



Deprador: Incandescence 2018



Gajendra Verma at Incandesence 2018



Self Defense Workshop for Women



Self Defense Workshop for Women



Mass tree plantation



Mass tree plantation

Corporate Social Responsibility

Inspite of numerous hurdles, the devotion towards serving the society at large has remained firm for the Institute and can be understood by the various developmental activities carried under the flagship of Corporate Social

Responsibility. The Institute has undertaken various measures to improve the socio-economic conditions of the nearby villages and North-eastern region at large. Certain contributions of the Institute towards social development are listed below:

Contribution to Social Development

- Adoption of border villages to develop these as Model villages: The institute has adopted numerous villages from its surroundings in order to turn it into a model of development for the rest of the region. Priorities like transportation, education, health & family welfare, drinking water, power (including non-conventional energy), information technology etc. has been identified and worked upon. To sensitize local village people on health issues, the Institute's Health Centre and its staff have organized various health camps and blood donation camps in and around villages and remote areas of Cachar district.
- **KendriyaVidyalaya NIT, Silchar:** KV NITS has been a long cherished desire of the people of Silchar; but it would have remained a distant dream until it was materialized on 21.04. 2012 by signing the MOU with KVS. It is a project sector school under institute of Higher Learning.
- NITS-KIDS School: The Institute has established a Kids School in its campus for imparting lower primary education with aminimal course fee to the children of nearby areas.
- **Telemedicine:** The Institute has taken effective measures to begin telemedicine program in order to flourish a healthy society. It works in three divisions Educational outreach, NITS-CIT (NIT Silchar Certification in Information Technology) and Awareness & Projects.

Gyansagar

Gyansagar is a society service wing of NIT Silchar volunteered by the students of institute. Since last seven years,

Gyansagar has put its effort towards the development of the under-privileged people of the nearby villages. In this academic year Gyansagar has organized various events which are listed below.

1) **Teaching Programs:**

i) Education Outreach Program :

Under this program the student volunteers of Gyansagarwent to the nearby villages and teach the village students. The schools which are covered under this program are Borahkhai High Secondary School, Baniya Memorial High School, Barakvelly High Secondary School, M.E. School, Borakhai Garden, M.E. School, Silliguri.



ii) EK-Prayas:

This is a special program conducted by Gyansagar volunteers for the nearby village kid at KV, NIT Silchar campus. Here the students apart from study are also indulged in games and different other activities like dancing, painting, etc.



2) Skill Development Program:

i) NITS-CIT (National Institute of Technology Certificate in Information Technology):

In today's world, the need to possess basic computer skills is becoming extremely crucial. Considering the above Gyansagar has conducted a course on basic computer knowledge in which all essential basics were taught. A batch of 25 students comprising of college staff, working adults as well as people from distant villages were trained under the program for a period one year.



3) Other Social Initiatives

Cloth Donation program:

On 11th November 2017, a cloth donation drive was successfullyorganized at the nearby villages of NIT Silchar. After the formal inauguration, a team of 25 volunteers of Gyansagar went to the nearby villages for distributing the clothes. Around 2800 clothes (in number) were collected from our campus and they were properly washed and sorted before the camp was organised. The cloth donation drives had covered key areas in the villages namely Silcoorie (Ward No.7), Silcoorie Purana Bazartilla (Ward No. 8), Maartila (Silcoorie), Goaalmara (Near B.Ed. College), Patthartilla (Sildubi), Barik Nagar, Dharmakhaal.









ii) Artificial Limb Camp:

Gyansagar, the social wing of NIT Silchar along with Dr. A. Chowdhury has successfully organized a "Artificial Limb Camp" on 17th December 2017 in collaboration with Bharat VikasParishad, Silchar branch. The beneficiaries having orthopaedic disability were identified for remedial measures.

Annual Accounts

for the financial year 2017-18



National Institute of Technology Silchar

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR BALANCE SHEET AS AT 31ST MARCH 2018

Amount in Rupees

SOURCES OF FUND	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
CORPUS / CAPITAL FUND	1	5,221,339,119	5,145,124,685
DESIGNATED / EARMARKED / ENDOWMENT FUNDS	2	845,652,184	717838490
CURRENT LIABILITIES & PROVISIONS	3	1,342,007,009	831,675,411
TOTAL		7,408,998,313	6,694,638,586

APPLICATION OF FUNDS	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
FIXED ASSETS			
Tangible Assets		4,163,170,610	3,390,368,683
Intangible Assets	4	29,401,694	23,075,127
Capital Works-In-Progress		1,167,778,989	1,813,279,291
INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	5	354,144,573	354,151,012
INVESTMENTS - OTHERS	6	16,483,451	19,020,822
CURRENT ASSETS	7	1,454,641,974	919,486,377
LOANS, ADVANCES & DEPOSITS	8	223,377,021	175,257,274
TOTAL		7,408,998,313	6,694,638,586

SIGNIFICANT ACCOUNTING POLICIES 23
CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS 24

Dated, Silchar The 18th June 2018

Registrar Director

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2018

Amount in Rupees

PARTICULARS	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
INCOME			
Academic Receipts	9	202,248,833	196,077,691
Grants /Subsidies	10	617,425,649	468,825,924
Income from Investment	11	404,375	375,067
Interest Earned	12	7,007,198	3,362,377
Other Income	13	302,752,950	299,683,502
Prior Period Income	14	-	-
TOTAL (A)		1,129,839,004	968,324,561

APPLICATION OF FUNDS	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
EXPENDITURE			
Staff Payment & Benefits (Establishment Expenses)	15	544,221,101	421,796,352
Academic Expenses	16	126,425,156	112,947,385
Administrative and General Expenses	17	61,977,902	64,151,676
Transportation Expenses	18	2,402,370	2,434,259
Repairs & Maintenance	19	18,752,148	14,863,139
Finance Costs	20	-	22,326
Depreciation	4	250,239,808	261,682,212
Other Expenses	21	33,233,851	19,566,403
Prior Period Expenses	22	-	-
TOTAL (B)		1,037,252,335	897,463,752
Balance being excess of Income over Expenditure (A-B)		92,586,669	70,860,809
Transferred to Corpus Fund		92,586,669	70,860,809
Building Fund		-	-
Others (specify)		-	-
Balance Being Surplus / (deficit) Carried to Capital Fund		-	-

SIGNIFICANT ACCOUNTING POLICIES 23
CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS 24

Dated, Silchar

The 18th June 2018 Registrar Director

SCHEDULE - 1 : CORPUS / CAPITAL FUND

	5,221,339,119	BALANCE AT THE YEAR END	
	692,304	d: Unclaimed Liability W/off	Add:
	13,784,185	d: Reappropriation of Capital Fund of earlier year against refund to Minisrty	Add:
	311,977,753	d: Grants from Govt. of India to the extent utilized for Capital expenditure	Add:
	4,894,884,877	Total	
	250239808	ss: Depreciation on Capital Assets	Less:
	•	ss: Excess of Expenditure over Income transferred from Income & Exp A/C	Less:
	•	ss: Reappropriation of Capital Fund of earlier year	Less:
	5,145,124,685	<u>CAPITAL FUND</u> : Balance at the beginning of the year	A.
PRE	CURRENT YEAR	Particulars	
Amount			

2,151,224 4,049,325 351,582,110

558,512

558,512

71,824

1,769,348

Balance lying with Institute A/c

TDS Receivable

Total

1,082,459

165,776,865

167,905,542

137,596 1,649,641 17,341,191

931,169

SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2018 NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

SCHEDULE - 2: DESIGNATED / EARMARKED / ENDOWMENT FUNDS

Amount i 86,189,029 327,876,621 24,964,174 21,976,225 123,541 374,940,561 23,358,451 23,358,451 351,582,110 10,958,669 248,233,863 **Current Year** Welfare Fund 66,723 558,512 558,512 491,789 Student 728,489 73,126 15,770,076 769,500 17,341,191 17,341,191 2,036,325 9,775,374 3,742,255 Staff Dev. Fund **Fund wise Breakup** 47,924 154,845,381 165,776,865 165,776,865 113,500,000 Maintenance 10,883,560 3,832,941 47,440,931 Fund 156,769,375 10,364,176 167,905,542 167,905,542 769,500 124,958,489 2,491 35,005,843 5,089,403 Depreciation Fund 23,358,451 **Pension Fund** 23,358,451 23,358,451 23,358,451 B: Utilization / Expenditure towards objective of funds c) Income from Investments made of the funds g) Others additions: Receivable amount Recd Closing balance at the year end (1) (A-B) Cash and Bank Balances (Including MOD) d) Accrued Interest on Investments **Particulars** e) Interest on Savings Bank a/c. Total (A) ii)Temporary loan to Institute Total (B) Interest accrued but not due b) Additions during the year ii) Revenue Expenditure Capital Expenditure a) Opening Balance Represented by Investment

SCHEDULE - 2: DESIGNATED / EARMARKED / ENDOWMENT FUNDS

						Amount i
		Fu	Fund wise Breakup	dr		To
Particulars	Instt. Dev.	Employees	Deptt.	Virtual Class	NMEICT	, co X
	Fund	Welfare Fund	Promotion	Room	Fund	Current rear
(2): A.						
a) Opening Balance	2,067,147	516,787	2,067,147	191,656	110,419	4,953,156
b) Additions during the year	266,892	66,724	266,892	ı	78,565	679,073
c) Income from Investments made of the funds	ı	ı	1	1	ı	1
d) Accrued Interest on Investments/Advances	ı	ı	ı	ı	1	ı
e) Interest on Savings Bank a/c.	ı	ı	1	ı	ı	1
f) Other additions (specify nature)	1	1	_	1	-	1
Total (A)	2,334,039	583,511	2,334,039	191,656	188,984	5,632,229
B : Utilization /Expenditure towards objective of funds	spun					
i) Capital Expenditure	1	ı	1	ı		1
ii) Revenue Expenditure	ı	30,000	_	ı	21,565	51,565
Total (B)	•	30,000	-	•	21,565	51,565
Closing balance at the year end (2): (A-B)	2,334,039	553,511	2,334,039	191,656	167,419	5,580,664
Represented by						
Cash and Bank Balances	ı	ı	1	1	ı	1
Investment	1	1	1	ı	ı	1
Interest accrued but not due	ı	ı	ı	ı	ı	ı
Balance lying with Institute A/c	2,334,039	553,511	2,334,039	191,656	167,419	5,580,664
Total	2.334,039	553,511	2,334,039	191,656	167.419	5.580.664

SCHEDULE - 2: DESIGNATED / EARMARKED / ENDOWMENT FUNDS

Particulars		Fui	Fund wise Breakup	d		Ļ
Particulars						•
	Gratuity Fund	Student Aid Fund	Corpus Fund			Current Year
(3): A.						
a) Opening Balance	1	3,631,706	381,377,007	1	1	385,008,713
b) Additions during the year	ı	1,026,000	3,148,863			4,174,863
c) Income from Investments made of the funds	ı	ı	1			ı
d) Accrued Interest on Investments/Advances	1	1	6,717,186			6,717,186
e) Interest on Savings Bank a/c.	ı	ı	1,979			1,979
f) Other additions (Trans. from Graturity Fund)	ı	ı	ı	1	ı	1
g) Surplus of Income & Expenditure A/c transferred		1	92,586,669			92,586,669
Total (A)	-	4,657,706	483,831,704	-	-	488,489,410
B : Utilization /Expenditure towards objective of funds	spu					
i) Capital Expenditure	ı	ı	-	ı	1	ı
ii) Revenue Expenditure	ı	1	1	ı	ı	ı
iii) Transferred to Corpus Fund	-	-	1	1	-	1
Total (B)	-	-	-	-	-	-
Closing balance at the year end (3): (A-B)	ı	4,657,706	483,831,704		-	488,489,410
Represented by						
Cash and Bank Balances (Including MOD)	1	-	89,147,315	1	1	89,147,315
Investment	ı	ı	105,910,710	ı	ı	105,910,710
Interest accrued but not due	ı	ı	35,156,492	ı	ı	35,156,492
TDS Receivable			462,450			462,450
Balance lying with Institute A/c	1	4,657,706	253,154,737			257,812,443
Total	1	4,657,706	483,831,704	1	•	488,489,410
				•		
Closing balance at the year end (1+2+3)	2,334,039	173,116,759	651,942,608	17,532,847	725,931	845,652,184

SCHEDULE: 2A : DESIGNATED / EARMARKED / ENDOWMENT FUNDS

<u>s</u>. §

	Opening Balance	Balance	Addition during the year	ing the year	Total	tal	Expenditure	Closing Balance	Salance
Name of the Endowment	Endowment	Accumulated Interest	Endowment	Interest	Endowment (3+5)	Accumulated Interest (4+6)	during the	Endowment	Accumu Intere
2	3	4	5	9	7	8	6	10	
Depreciation Fund	122,126,520	34,642,855	769,500	10,366,667	122,896,020	45,009,522	1	122,896,020	45,00
Maintenance Fund	119,660,204	35,185,177	1	10,931,484	119,660,204	46,116,661		119,660,204	46,11
Staff Dev. Fund	11,914,275	3,855,801	769,500	801,615	12,683,775	4,657,416	1	12,683,775	4,65
Student Welfare Fund	491,789	ı	66,723	1	558,512	ı		558,512	
Instt. Dev. Fund	2,067,147	ı	266,892	1	2,334,039	ı		2,334,039	
Employees Welfare Fund	516,787	ı	66,724	1	583,511	ı	30,000	553,511	
Deptt. Promotion Fund	2,067,147	ı	266,892	1	2,334,039	ı		2,334,039	
Virtual Class Room	191,656	ı	ı	1	191,656	ı		191,656	
NMEICT Fund	110,419	ı	78,565	1	188,984	ı	21,565	167,419	
Pension Fund	ı	ı	23,358,451	1	23,358,451	ı	23,358,451	ı	
Student Aid Fund	3,631,706	ı	1,026,000		4,657,706	ı		4,657,706	
Corpus Fund	355,207,506	26,169,501	95,735,532	6,719,165	450,943,038	32,888,666	1	450,943,038	32,88
TOTAL	617,985,156	99,853,334	122,404,779	28,818,931	740,389,935	128,672,265	23,410,016	716,979,919	128,67

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SCHEDULE: 3 : CURRENT LIABILITIES AND PROVISIONS

	Amoun	unou
PARTICULARS	CURRENT YEAR PF	PRE
A. CURRENT LIABILITIES		Ì
1. Deposits from staff	2,919,205	
2. Deposits from Students	33,296,926	
3. Sundry Creditors:		
a) For Goods & Services	77,521,206	
b) Others	13,421,246	
4. Deposits - Others (including EMD, Security Deposit & Project)	19,820,136	
5. Statutory Liabilities (GSLI, P Tax, EPF, CPF)	158,033	
6. Other Current Liabilities:		
a) Sponsored Project Liability (Including P Tax and others)	1,401,842	
b) Receipts against sponsored projects	44,998,994	
c) Receipts against sponsored fellowships & Scholarship	2,623,150	
d) <u>Unutilized Grants :-</u>		
Under Non Recurring Grants (OH-35)	500,395,222	
Under Recurring Grants (OH-31)	ı	
Under Recurring Grants (OH-36)	173,998,427	
e) Sponsored Projects (Previous)	50,506,759	
f) TEQIP PHASE-I	103,165,960	
g) TEQIP PHASE-II	96,064,457	
h) Other funds	11,827,239	
i) Other liabilities	209,888,208	
Total (A)	1,342,007,009	
B. PROVISIONS		
1. For Taxation		
2. Gratuity		
3. Superannuation Pension		
4. Others if any		
Total (B)	- [
TOTAL (A+B)	1,342,007,009	

SCHEDULE: 3A		SPONSORED PROJECTS FUND	QNI						
S S	Name of the	Opening Balance	3alance	Receipts/ Recoveries during the year	overies during Jear	Total	Expenditure	Refund to	Clos
	Project	Credit	Debit	Grants /Loan	Interest/ Other Receipts		year	Loan	Credi
1	2	3	4	2	9	7	8	6	10
A	MCIT, Gol	747,365	1	4,733,989	43,884	5,525,238	4,558,006	200,000	792
В	DST, Gol	18,414,535	ı	467,279	758,722	19,640,536	1,507,141	-	18,133
ပ	MNRE, GOI	72,315	ı	83,572	28,349	184,236	83,572	1	100
D	MoESc., Gol	230,690	ı	-	20,322	251,012	1	225,177	25
П	ICSSR	1	ı	80,000	4,406	84,406	6,000	1	78
ш	SERB, GOI	14,047,408	1	10,038,810	793,293	24,879,511	10,983,474	1	13,896
9	IBM	798,831	1	•	38,886	838,717	•	1	838
I	AICTE -RPS	1,308,956	1	•	63,052	1,372,008	6,528	156,728	1,208
-	AICTE -MODROBS	1,375,066	1	,	100,384	1,475,450	•	•	1,475
_	BRNS	1,187,141	ı	386,795	71,988	1,645,924	443,328		1,202
×	NRRDA	54,359	ı	-	1,835	56,194	23,632		32
٦	репту	3,095,796	1	•	146,216	3,242,012	1,628,968	-	1,613
Σ	ngc	15,955	ı	197,556	3,114	216,625	151,000	1	65
z	CPRI	-	ı	1,497,000	57,775	1,554,775	70,161	1	1,484
0	NMHS		1	2,072,000	35,421	2,107,421	78,886	•	2,028
۵	DDMA	•	1	1,518,000	60,854	1,578,854	35,663	•	1,543
σ	CSIR	,	1	482,667	21,671	504,338		'	504
	TOTAL	41,348,417		21,557,668	2,251,172	65,157,257	19,576,359	581,905	44,998

SCHEDULE - 3 (1): SPONSORED PROJECTS FUNDS

	_									₹
				Fun	Fund wise Breakup	dn				
Particulars	MCIT	DST	MOES	ICSSR	MNRE	DIETY	CPRI	NMHS	BRNS	Currer
(1): A.										
a) Opening Balance	747,365	18,414,535	230,690	1	72,315	3,095,796	•	•	1,187,141	23,72
b) Additions during the year	4,733,989	467,279	ı	80,000	1	1	1,497,000	2,072,000	386,795	9,23
c) Interest on Savings Bank a/c.	43,884	755,522	20,322	4,406	5,349	146,216	57,775	35,421	71,988	1,14
d) Other additions	•	3,200	ı	1	23,000	•	•	•	•	٠,٧
e) Loan from Institute	1	•	1	•	83,572	-	1	1	-	~
Total (A)	5,525,238	19,640,536	251,012	84,406	184,236	3,242,012	1,554,775	2,107,421	1,645,924	34,23
B: Utilization /Expenditure towards objective of funds	tive of funds									
i) Capital Expenditure										
Equipment		684,984	ı	1	1	1,113,331				1,75
Computer	ı	1	ı	1	1	,	1	1	1	
Software	ı	1	ı	1	,	,	ı	ı		
Furniture	ı	96,611	ı	1	1	,	1	1	1	J,
Other Cost		,	,	,	,	,			1	
ii) Revenue Expenditure	4,558,006	725,546	ı	9'000'9	83,572	515,637	70,161	78,886	443,328	6,48
iii) Refunded to Ministry	ı	1	225,177	1	1	,	1	1	1	22
iv) Refund of Loan to Institute	200,000	-			-	-	-	-	-	2(
Total (B)	4,758,006	1,507,141	225,177	9000'9	83,572	1,628,968	70,161	78,886	443,328)8′8
Closing balance at the year end (1) (A-B)	767,232	18,133,395	25,835	78,406	100,664	1,613,044	1,484,614	2,028,535	1,202,596	25,43

Ā

SCHEDULE - 3 (1): SPONSORED PROJECTS FUNDS

				Fur	Fund wise Breakup	dn				
Particulars	AICTE - RPS	AICTE - MODROB	I B M Project	SERB	NRRDA	ogn	DDIMA	CSIR		Currer
(2) : A.									,	
a) Opening Balance	1,308,956	1,375,066	798,831	14,047,408	54,359	15,955	ı	ı	•	17,60
b) Additions during the year	,	ı	1	10,038,810	1	197,556	1,518,000	482,667	1	12,23
c) Interest on Savings Bank a/c.	63,052	100,384	39,886	793,293	1,835	3,114	60,854	21,671	ı	1,08
d) Other additions (specify nature)	-	-	-	-	-	-	-	-	-	
Total (A)	1,372,008	1,475,450	838,717	24,879,511	56,194	216,625	1,578,854	504,338	-	30'08
B: Utilization /Expenditure towards objective of funds	tive of funds									
i) Capital Expenditure										
Equipment	1	ı	1	6,747,104	1	,	ı	ı	1	72′9
Computer	ı	ı	1	1	1	,	1	1	ı	
Software	,	ı	,	,	1	•			1	
Furniture	ı	ı	,	,	1	•	1	1	1	
Books	1	ı	1		1	•	1	1	1	
ii) Revenue Expenditure	6,528	ı	1	4,236,370	23,632	151,000	35,663	ı	1	4,45
iii) Refunded to Sanctioning authority	156,728		-	-		-	-	-	ī	15
Total (B)	163,256	•	-	10,983,474	23,632	151,000	35,663	•		11,3!
Closing balance at the year end (2): (A-B)	1,208,752	1,475,450	838,717	13,896,038	32,562	65,625	1,543,191	504,338	-	19,5(
Closing balance at the year end (1+2)	1,975,984	19,608,845	864,552	13,974,444	133,226	1,678,669	3,027,805	2,532,873	1,202,596	44,99

SCHEDULE: 3B: SPONSORED FELLOWSHIPS AND SCHOLARSHIPS

		Opening Balance	Balance	Transaction	Transaction during the	Closing Bala	:וסר
	Name of the			ye	year	31.03	ńΙ
SI. No.	Sponsors	Credit	Debit	Credit	Debit	Credit	ĺ
1	2	3	4	5	9	7	ı .
1	Various Agencies	4,941,577	-	2,191,500	4,509,927	2,623,150	l I
	Total	4,941,577	-	2,191,500	2,191,500 4,509,927 2,623,150	2,623,150	.

SCHEDULE: 3C: UNUTILIZED GRANTS FROM UGC, GOVT. OF INDIA AND STATE GOVT.

		An
PARTICULARS	CURRENT YEAR	PREVI
A. Plan Grants : Government of India		
Balance Brought forward		
Add: Receipts during the year		
Add Other additions		
Total (a)		
Less: Capital expenditure of last year (Net off depreciation)		
Less: Utilized for Revenue Expenditure		
Less: Utilized for Capital Expenditure		
Total (b)		
Unutilized carried forward (a-b)	Pofor to Schodulo 10	
B. Grants: NON- PLAN		
Balance Brought forward		
Add: Receipts during the year		
Total (c)		
Less: Refunds		
Less: Utilized for Revenue Expenditure		
Less: Utilized for Capital Expenditure		
Total (d)		
Unutilized carried forward (c-d)		
GRAND TOTAL (A+B)		

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SCHEDULE 4 - FIXED ASSETS

				10010			14 27	F10C	10	Amount in
	Assets Heads	•	Gross Block	SIOCK		nebi	Depreciation for the Year 2017-18	le rear 2017	-10	
S. No	TANGIBLE ASSETS	Opening Balance as on 01.04.2017	Additions	Deduction	Cl. Balance	Dep Opening Balance	Depreciation for the Year	Deductions/ Adjustment	Total Depreciations	31.03.2
1	Land	866,458	•		866,458)8
2	Site & Campus Development	60,284,627			60,284,627	17,073,129	2,160,574		19,233,703	41,05
3	Buildings	3,152,525,199	814,821,101		3,967,346,300	545,576,034	133,247,182		678,823,216	3,288,52
4	Roads & Bridges	78,563,211			78,563,211	14,153,353	3,220,492		17,373,845	61,18
5	Tubewells & Water Supply	186,506,164			186,506,164	31,415,436	7,754,538		39,169,974	147,33
5a	Sewerage & Drainage	1	58,425,054		58,425,054					58,42
9	Electrical Installation & Equipment	31,684,335	2,525,420	467,231	33,742,524	17,650,796	2,320,672	-155,077	20,126,545	13,61
7	Plant & Machinery	108,390,027	45,000	45,000	108,390,027	48,175,410	9,032,194	٠	57,207,604	51,18
8	Scientific & Laboratory Equipment	300,068,068	17,624,056	2,637,588	315,054,536	144,087,482	24,113,232	1,627	168,199,087	146,85
6	Office Equipment	22,643,447		1,932,183	20,711,264	10,534,454	1,557,628	202,637	11,889,445	8,82
10	Audio Visual Equipment	9,856,935	501,710		10,358,645	4,245,031	886'858		5,103,419	5,25
11	Computers & Peripherials	154,274,649	1,786,823		156,061,472	120,275,694	10,462,982	-49,187	130,787,863	25,27
12	Furniture, Fixtures & Fittings	141,952,372	420,350		142,372,722	58,432,577	8,366,310	-	66,798,887	75,57
13	Vehicles	5,126,107			5,126,107	4,061,222	212,978	-	4,274,200	86
14	Lib. Books & Scientific Journals	58,734,208	3,857,232		62,591,440	44,996,402	4,296,320	-	49,292,722	13,29
15	Other Assets	85,161,352			85,161,352	48,757,416	10,583,784		59,341,200	25,82
	Total (A)	4,396,637,159	900,006,746	5,082,002	5,291,561,903	1,109,434,436	218,187,274		1,327,621,710	3,963,94
16	Capital Works in Progress (B)	1,813,279,291	219,691,898	865,192,200	1,167,778,989	-	•	•	•	1,167,77
	<u>INTANGIBLE ASSETS :</u>									
17	Computer Software	43,394,899	944,000	-	44,338,899	20,445,503	3,516,118	-	23,961,621	20,37
18	E- Books		8,772,895		8,772,895					8,77
19	E-Journals	77,577,061	28,536,416	-	106,113,477	77,577,061	28,536,416	-	106,113,477	
20	Patents	125,731	125,790	-	251,521	-		1	-	25
	Total (C)	121,097,691	38,379,101		159,476,792	98,022,564	32,052,534		130,075,098	29,4(
20	TEQIP I Assets (D)	103,165,960	•	•	103,165,960	-	•	•	-	103,16
21	TEQIP I Assets (E)	'	96,064,457		96,064,457	•	•	1	-	96,0(
	Grand Total (A+B+C+D+E)	6,434,180,101	1,254,142,202	870,274,202	6,818,048,101	1,207,457,000	250,239,808	•	1,457,696,808	5,360,3

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

SCHEDULE 4(C) (I) - PATENTS AND COPYRIGHTS

Particulars	Op Balance 01.04.2017	Additions	Gross	Amortization	Net Bloci 2017-18
A. Patents Granted					
1. Balance as on 31.03.2016 of Patents obtained in 2008-09 (Original Value - Rs.	1	1	ı	1	1
2. Balance as on 31.03.2016 of Patents obtained in 2010-11	1	ı	ı	ı	1
3. Balance as on 31.03.2016 of Patents obtained in 2012-13 (Original Value - Rs.	,		•	•	'
4. Patents granted during the Current Year	ı	1	1	ı	1
Total	1	1	1	•) ı
Particulars	Op Balance	Additions	Gross	Amortization	Net Bloci 2017-18
B. Patents Pending in respect of Patents applied for:					
1. Expenditure incurred during 2013-14	ı	•	•	ı	•
2. Expenditure incurred during 2014-15	1	1	ı	ı	ı
3. Expenditure incurred during 2015-16	42,180	•	42,180.00	1	42,1
4. Expenditure incurred during 2016-17	83,551	•	83,551.00	ı	83,5
5. Expenditure incurred during 2017-18	ı	125,790	125,790.00	ı	125,7
Total	125,731	125,790	251,521	1	251,5
Grand Total (A+B)	125,731	125,790	251,521	•	251,5

SCHEDULE: 5: INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS

Amount in Rupees

PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
1. In Central Government Securities	-	1
2. In State Government Securities	-	-
3. Other approved Securities	-	-
4. Shares	-	-
5. Debantures and Bonds	-	-
6. Term Deposits with Banks		
Investment of Corpus Fund	105,910,710	105,917,149
Investment of Depreciation Fund	124,958,489	124,958,489
Investment of Maintenance Fund	113,500,000	113,500,000
Investment of Staff Development Fund	9,775,374	9,775,374
7. Others	-	-
Total	354,144,573	354,151,012

SCHEDULE: 6: INVESTMENTS - OTHERS

PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
1. In Central Government Securities	-	-
2. In State Government Securities	-	-
3. Other approved Securities	-	-
4. Shares	-	-
5. Debantures and Bonds	-	-
6. Term Deposits with Banks	-	-
Short Term Deposit (Fee)	-	-
Short Term Deposit	14,500,000	14,500,000
7. Others : Margin Money Account (L.C.)	1,983,451	4,520,822
Total	16,483,451	19,020,822

SCHEDULE SHOWING INVESTMENTS OF EARMARKED AND OTHER FUNDS AS ON 31.03.2018 NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR (Corresponding to Schedule - 5 & 6)

Bank		F.D No	Date	Face Value as on 01.04.17	Addition during 2017-18	Matured during 2017- 18	Face Value as on 31.03.18	Accrued Interest Upto 31.03.17	Accrued Interest during 2017-18	Accrued Intt. Recd. during 2017-18	TDS receive 2017-
Cor	Cor	Corpus Fund	٦								
SBI (Gratuity) 32269515122	32269515	122	31.03.12	4,567,987	1	-	4,567,987	2,496,730	653,281	1	
SBI (Gratuity) 32323115747	32323115	747	23.04.12	2,500,000	ı	,	2,500,000	1,358,770	351,818	ı	
Vijaya Bank 800603311003251	8006033110	03251	08.02.17	20,000,000	1	,	20,000,000	5,900,703	1,454,190	1	
Bank of India 503945110000247	5039451100	00247	24.04.14	4,500,000	ı	•	4,500,000	1,151,493	402,895	1	40
SBI 32115408694	32115408	694	31.12.11	2,650,000	ı	1	2,650,000	1,581,321	237,448	1	
SBI 32269399181	32269399	181	31.03.12	2,185,757	ı	,	2,185,757	1,197,624	314,964	ı	
SBI 32323116853	32323116	853	23.04.12	1,500,000	1	,	1,500,000	847,411	176,847	1	
SBI 33761329398	33761329	3398	31.03.14	55,000,000	ı	1	55,000,000	10,569,291	2,536,192	1	
Canara Bank 3050401001159-1	305040100	1159-1	19.04.14	13,000,000	ı	1	13,000,000	3,433,799	590,050	1	29
Canara Bank 3050401001507	30504010	01507		6,439	1	6,439	ı	ı	ı	ı	
Canara Bank 3050401001507/2	305040100	1507/2	25.04.16	996′9	1	•	996'9	1,462	-499		
Total	Total			105,917,149	•	6,439	105,910,710	28,538,604	6,717,186	•	66
Dep	bed	Depreciation Fund	pun _:								
SBI 32313779663	3231377	19963	23.04.12	7,400,000	ı	,	7,400,000	3,851,265	995,594	ı	199
SBI 32313798610	3231379	8610	23.04.12	9,000,000	ı	•	9,000,000	4,567,022	1,079,280	ı	215
SBI 32313799432	3231379	9432	23.04.12	9,000,000	ı	,	9,000,000	4,567,022	1,079,280	ı	215
Bank of India 503945110000250	503945110	000250	24.04.14	6,000,000	ı	,	6,000,000	1,563,133	539,165	ı	23
IDBI 29310600022376	2931060000	022376	30.11.15	7,938,512	ı	•	7,938,512	838,383	616,784	ı	
IDBI 29310600022400	293106000	022400	30.11.15	10,206,659	i	,	10,206,659	1,005,922	719,185		
IDBI 29310600022419	293106000	022419	30.11.15	10,206,659	i		10,206,659	1,005,922	719,185		
IDBI 29310600022428	2931060000)22428	30.11.15	10,206,659	1	1	10,206,659	1,005,922	719,185	1	
Vijaya Bank 800603311004287	800603311	004287	05.09.15	7,000,000	i	,	7,000,000	885,873	495,059		
Vijaya Bank 800603311004288	800603311	004288	05.09.15	6,000,000	i		6,000,000	759,320	424,336		
Vijaya Bank 800603311004285	800603311	004285	05.09.15	9,000,000	i	ı	9,000,000	1,138,979	636,505	ı	
Vijaya Bank 800603311004286	800603311	004286	05.09.15	9,000,000	ı	ı	9,000,000	1,138,979	636,505	ı	
Vijaya Bank 800603311004284	800603311	004284	05.09.15	9,000,000	ı	ı	9,000,000	1,138,979	636,505	ı	
PNB 311000DP00015494	311000DP00	0015494	05.09.15	9,000,000	ı	ı	9,000,000	1,115,816	589,325	ı	
PNB 311000DP00015500	311000DP0	0015500	05.09.15	6,000,000	1	1	6,000,000	743,878	478,283	,	
Total	Total			124,958,489	-	٠	124,958,489	25,326,415	10,364,176	•	684

	Bank	F.D No	Date	Face Value as on 01.04.17	Addition during 2017-18	Matured during 2017- 18	Face Value as on 31.03.18	Accrued Interest Upto 31.03.17	Accrued Interest during 2017-18	Accrued Intt. Recd. during 2017-18	TDS receiva 2017-
		Maintenance Fi	Fund								
ι	PNB	311000DA00003195	30.12.11	12,500,000	1	-	12,500,000	7,537,928	1,620,191	1	
_	PNB	311000DA00003186	30.12.11	12,800,000		'	12,800,000	7,718,838	1,659,076	ı	
_	PNB	311000DP00015519	05.09.15	8,000,000		1	8,000,000	991,837	637,710	1	
	PNB	311000DP00015528	05.09.15	7,000,000	1	1	7,000,000	867,858	557,996	1	
	SBI	32313794525	23.04.12	6,700,000	1	1	6,700,000	3,570,404	901,416	ı	90
	SBI	32313795314	23.04.12	000'000'6	1	1	9,000,000	4,567,023	1,025,229	1	107
	SBI	32313796146	23.04.12	000'000'6	1	1	9,000,000	4,567,023	1,025,229	1	107
	Bank of India	503945110000249	24.04.14	8,500,000	1	1	8,500,000	2,187,639	260,569	1	26
	Indian Bank	6370094889	04.09.15	6,000,000		1	6,000,000	784,176	471,150	ı	47,:
10	Indian Bank	6370094584	04.09.15	7,000,000		'	7,000,000	914,871	549,675	ı	54,5
11	Indian Bank	6370094302	04.09.15	8,500,000	1	1	8,500,000	1,110,915	667,462	1	.'99
	Indian Bank	6370094546	04.09.15	000'000'6	1	'	9,000,000	1,176,263	599,768	1	565
	Indian Bank	6370094296	04.09.15	9,500,000		1	9,500,000	1,214,271	608'089	1	00 ,{
		Total		113,500,000	•	-	113,500,000	37,209,046	10,883,560	-	651
		Staff Developmen	ent Fund								
	SBI	32115415012	31.12.11	700,000	1	1	700,000	409,191	65,247	1	17,8
	SBI	32269400369	31.03.12	675,374		1	675,374	370,053	97,319	Í	
	SBI	32323059473	23.04.12	400,000		'	400,000	221,263	35,024		
	Bank of India	503945110000248	18.04.14	8,000,000	-	1	8,000,000	2,084,177	530,899	1	53
		Total		9,775,374		-	9,775,374	3,084,684	728,489	-	70
		NONPLAN/PI	Plan								
	SBI	35593385121	24.02.16	5,000,000	1	,	5,000,000	426,526	374,582	,	
	SBI	35593383394	24.02.16	5,000,000		•	5,000,000	426,526	374,582	1	
	Bank of India	503945110000251	18.04.14	4,500,000	1	,	4,500,000	1,172,349	404,375	ı	40
	Axis Bank	Stock TDR against LC	31.03.16	4,520,822	-	2,537,371	1,983,451	340,231	113,974	150,977	
		Total		19,020,822		2,537,371	16,483,451	2,365,632	1,267,513	150,977	40,
		Grand Total		373,171,834		2,543,810	370,628,024	96,524,381	29,960,924	150,977	1,547,

SCHEDULE:7: CURRENT ASSETS

PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
1. STOCKS:		
a) Storers and spares	-	-
b) Loose Tools	-	-
c) Publications	-	-
d) Laboratory Chemicals	-	-
e) Building materials	-	-
f) Electrical Materials	-	-
g) Stationery	-	-
h) Water supply materials	-	-
2. SUNDRY DEBTORS	-	-
a) Debts outstanding for a period exceeding six months	68,672	68,672
b) Others	-	-
3. CASH AND BANK BALANCES	-	-
Cash in hand	51,225	15,322
<u>Cash at Bank</u> :	-	-
A) With Scheduled Banks:	-	-
In Current Accounts	1,237,567,862	677,215,479
In Savings Accounts	216,954,214	242,186,904
Total	1,454,641,974	919,486,377

SCHEDULE: 7 (A) ANNEXURE - CURRENT ASSETS

PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
With Scheduled Banks:		
In Current Accounts		
SBI-10521277057 (NON PLAN)	-37,579,938	-9,681,449
Non Plan Auto Sweep A/c	84,725,840	141,985,058
SBI-10521277068 (PLAN GRANT)	7,669,343	-37,559,296
Plan Auto Sweep A/c	1,182,752,618	582,471,166
Total	1,237,567,862	677,215,479
In Savings Accounts		
SBI-10521277818(CORPUS FUND)	51,315	64,249
SBI Auto Sweep A/c (Corpus Fund)	89,096,000	88,582,000
SBI-30052416379(STAFF DEV FUN)	2,036,325	1,963,199
SBI-30052438520(DEPRECIATION FUND)	54,403	51,912
SBI Auto Sweep A/c (Dep. Fund)	5,035,000	5,035,000
SBI-30052443879(MAINT.FUND)	59,941	3,785,017
AXIS-10049704315 (PLAN)	19,117,342	12,154,412
SBI-10521278244 (SCHOLARSHIP)	195,458	201,308
SBI Auto Sweep A/c (Scholarship))	3,280,626	5,462,000
SBI Auto Sweep A/c (Maint. Fund)	3,773,000	-
SBI-30763009570(NONPLAN FEE)	501,267	536,464
SBI Auto Sweep A/c (FEE A/c)	62,824,000	82,570,318
SBI-36535392913 (AWARD FUND)	440,592	300,000
SBI-36017852338 (START UP INDIA FUND)	865	1,000
SBI-30293190682(TUC)	7,043	6,791
SBI-35538434664 (IEDC)	677,657	887,206
SBI-30033506221 (SMDP)	278,052	293,209
SBI-34671803739 (AM&MT)	364,964	15,438,116
SBI-30780415571(RPS SCHEME)	-1,383,940	23,242,029
Project Auto Sweep A/C	28,644,900	-
SBI-30780416041(MODROBS)	57,117	1,375,066
SBI-31306562769(BEHAVIOUR OF CLAY/MoESc)	764	213,516
SBI-37093726031 (NHMS)	1,816,535	-
SBI-31306566082(REG EXTREME RAINFALL)	24,989	24,092
Total	216,954,214	242,186,904

SCHEDULE: 8: LOANS, ADVANCE AND DEPOSITS

		Amount in Rupees
PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
1. Advances to employees (Non-interest bearing):		
Festival Advance	289,064	303,050
HTC Advance	74,200	86,199
LTC Advance	160,000	104,000
Other Advance To Employees	-	500,000
Recoverable Advance	5,721,910	5,004,701
TA Advance	145,252	
2. Long Term Advances to employees: (Interest bearing):		
a) Vehicle Loan	-	
b) Home Loan	-	
c) Soft Loan	1,086,333	572,906
3. Advances & other amt recoverable in cash or		
in kind or for value to be received :		
a) On Capital Account		
Deposit Work	13,584,358	17,084,358
Secured Advance	4,000,000	38,850,000
Advance - PHE Water Supply	124	124
Margin Money for LC	12,269,447	7,557,341
Adv- NCC Ltd	10,551,076	
b) Suppliers/Firm		
c) Others		
i) Electricity Consumption Receivable	455,012	291,842
ii) House Rent / Licence Fee receivable	143,892	53,773
iii) Shop & Canteen Rent receivable	18,272	146,577
iv) Advance Tax		
v) Receivable against Start Up India (Project)	1,561,301	77,182
vi) Receivable from SBI (Against Saswat Chakraborty)	-	14,000

SCHEDULE: 8: LOANS, ADVANCE AND DEPOSITS

PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
4. Prepaid Expenses :		
a) Insurance	798,621	798,288
b) Against E Journal	19,695,197	-
c) Digital Library		
d) Printed Journal		
e) AMC		
5. Deposits :		
a) Telephone		
b) Lease Rent		
c) Electricity	400,854	400,854
d) AICTE		
e) SBI ATM (TDR)	10,000	10,000
f) Security for POL	162,084	162,084
g) Security against LPG	46,200	46,200
6. Income Accrued :		
a) On investments from Earmarked / Endowment Fund	121,345,521	94,158,749
b) On Investment - Others	3,441,730	2,365,632
c) On Loans and Advances		
d) Others (including income due unrealized)		
7. Other - Current assets receivable from UGC /Sponsored proj	ects :	
a) Debit balances in Sponsored Projects		
b) Debit balances in sponsored Fellowship & Scholarships		
c) Grants receivable		
d) Grants receivable from UGC	-	
e) Recoverable from MR Staff (EPF Subscription)	2,708,310	2,708,310
f) TDS Receivable- Earmarked Fund	2,613,674	1,107,035
g) TDS Receivable- Sponsored Project	755	755
h) TDS Receivable- Others (Non Plan)	516,807	395,214
8. Claims receivable :	21,577,027	2,458,100
Total (A)	223,377,021	175,257,274

SCHEDULE 9- ACADEMIC RECEIPTS

TEEC FR	DAA CTUDENITE		Amount in Rupees
	OM STUDENTS	Current Year	Previous Year
Academ		475 565 207	474 020 042
1.	Tuition fee	175,565,207	171,839,042
2.	Admission fee	4,912,000	3,997,500
3.	Enrolment fee		
4.	Library Admission fee	3,247,400	3,159,500
5.	Laboratory fee - I T System fee	6,456,500	6,318,000
6.	Art & Craft fee		
7.	Registration fee / Institutional fee		
8.	Syllabus fee		
	Total (A)	190,181,107	185,314,042
Examina			
1.	Admission test fee		
2.	Annual Examination fee	6,763,100	4,540,800
3.	Mark sheet, certificate fee		
4.	Entrance fee		
	Total (B)	6,763,100	4,540,800
Others F	ees		
1.	Identity card fee		
2.	Fine/Miscelleneuos fee	686,826	729,129
3.	Medical fee	1,935,900	1,924,740
4.	Transportation fee	1,935,900	2,601,180
5.	Hostel fee - Light & Water charges		
6.	Migration fee		
7.	Summer term course fee		240,000
8.	Verification fee		
	Total (C)	4,558,626	5,495,049
Sale of P	ublications		
1.	Sale of Admission forms		
2.	Sale of syllabus and question paper, etc.		
3.	Sale of prospectus including admission forms		
	Total (D)	-	-
Other A	cademic Receipts		
1.	Registration fee for workshops, programmes		26,300
2.	Registration fee (Academic Staff College)		-
3.	Training & Placement	746,000	701,500
	Total (E)	746,000	727,800
			•
	Grand Total (A+B+C+D+E)	202,248,833	196,077,691
	· · · · · · · · · · · · · · · · · · ·		

SCHEDULE 10- GRANTS/SUBSIDIES (IRRECOVERABLE GRANTS RECEIVED)

		Current Year	ıt Year			Previous Year
Particulars	OH-35 (Creation of Assets)	OH-31 (Recurring General)	OH-36 (Salaries)	Current Year Total	Plan	Non Plan
Balance B/F	395,770,766	9,874,076	1	405,644,842	52,107,888	ı
٩dd: Receipts during the year	419,950,000	143,400,000	638,150,000	1,201,500,000	921,560,000	365,000,00
٩dd: Interest earned	10,436,394		1	10,436,394	2,336,812	ı
Fotal	826,157,160	153,274,076	638,150,000	1,617,581,236	976,004,700	365,000,00
Less: Adjustment against refund to Ministry n F.Y 2013-14	13,784,185	,		13,784,185		1
Balance	812,372,975	153,274,076	638,150,000	1,603,797,051	976,004,700	365,000,00
Less: Utilized for Capital expenditure (A)	311,977,753			311,977,753	466,533,934	ı
Balance	500,395,222	153,274,076	638,150,000	1,291,819,298	509,470,766	365,000,00
Less: Utilized for Revenue expenditure (B)	1	153,274,076	464,151,573	617,425,649	103,825,924	365,000,00
Balance C/F (C)	500,395,222		173,998,427	674,393,649	405,644,842	

Schedule 11 - INCOME FROM INVESTMENT

	-, -		
arelinitae arelinitae	Earmarked/End	Earmarked/Endowment Funds	Other Inve
רמונוסומוט	Current Year	Previous Year	Current Year
1 Interest			
a. On Government Securities			
b. Other Bonds/Debentures			
2 Interest on Term Deposits			
Interest on Stock Term Deposits from AXIS Bank			
Interest on Term Deposits against short term deposits.		7,467	
3 Income accrued but not due on Term Deposits	28,693,411	29,313,245	404,375
4 Interest on Savings Bank Accounts	125,520	1,275,807	
5 Others (Specify)			
Total	28,818,931	30,596,519	404,375
Transferred to Earmarked/Endowment Funds	28,818,931	30,596,519	
Balance	•	•	404,375

SCHEDULE 12: INTEREST EARNED

	Particulars	Current Year	Previous Year
1	On Savings Accounts with scheduled banks :		
	Against fee account no. 30763009570	43,386	93,867
	Against Scholarship account no. 10521278244	61,203	96,562
	Against Auto Sweep A/c (Non Plan)	3,195,627	2,969,010
	Against Auto Sweep A/c (Fees A/c)	3,706,982	94,993
	Others		
	Total (A)	7,007,198	3,254,432
2	On Loans:		
	a. Employees/Staff - Interest on Soft Loan		107,361
	b. Others - Against Interest recovery of LTC/HTC		584
	Total (B)	-	107,945
3	On Debtors and Other Receivables		
	Total (C)	-	-
	Grand Total (A+B+C)	7,007,198	3,362,377

SCHEDULE 13- OTHER INCOME

	Amount	in Rupees
A. Income from Land & Buildings	Current Year	Previous Year
1. Hostel room Rent	6,277,750	6,127,000
2. License fee	2,391,929	2,315,350
3. Hire Charges of Auditorium/Play ground/Convention Centre, Shop etc.	2,095,384	1,376,259
4. Guest House Rent	1,840,330	1,433,080
5. Electricity charges recovered	5,491,562	5,971,322
6. Light & Water charges recovered	6,277,750	6,127,000
Total	24,374,705	23,350,011
B. Sale of Institute's Publications		
C. Income from holding events		
1. Gross Receipts from annual function/Sports Carnival		
Less: Direct expenditure incurred on the annual function/Sports Carnival		
2. Gross Receipts from fetes		
Less: Direct expenditure incurred on the fetes		
3. Gross Receipts for educational tours		
Less: Direct expenditure incurred on the tours		
4. Others (to be specified and separately disclosed)		
Total	-	-
D. Others		
Institute Overhead (Project)	1,665,937	
2. RTI Fees	712	656
3. Income from Royalty		
4. Sale of application form (Recruitment)	1,479,384	81,850
5. Misc. receipts (Sale of Tender Form, waste paper, etc.)	957,102	354,747
6. Profit on sale/disposal of Assets		
a) Owned assets		
b) Assets received free of cost		
7. Others (Lake)		367,500
8. Pension Fund Contribution	23,358,451	10,062,245
9. KIDS NITS Fund Contribution (Appropriation)	676,851	602,403
10. Capital Fund appropriation against Depreciation	250,239,808	261,682,212
a) Misc. Receipts	270 272 277	3,181,878
Grand Total (A+B+C+D)	278,378,245 302,752,950	276,333,491 299,683,502
· · · · · · · · · · · · · · · · · · ·	, - ,	, ,

SCHEDULE 14- PRIOR PERIOD INCOME

Particulars	Current Year	Previous Year
1. Academic Receipts	-	-
2. Income from Investments	-	-
3. Interest earned	-	-
4. Other Income	-	-
Total	_	-

SCHEDULE 15 - STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)

					(Amor
Doubling		Current Year	ar		Previous Ye
raticulars	Plan	Non Plan	Total	Plan	Non Plan
A) Salaries and Wages					
i) Teaching & Admin	ı	243,902,769	243,902,769		183,104,257
ii) Group B & C		22,203,970	22,203,970		24,947,549
iii) Group D		39,807,526	39,807,526		28,208,353
B) Other Adhoc	1	ı	ı		
i) Salary of outsourced staff		249,284	249,284		14,624,892
ii) Salary of Contractual Teaching & Admin		34,547,596	34,547,596		20,041,960
iii) Salary of M R Staff		18,813,313	18,813,313		11,293,040
C) Allowances & Bonus	ı	ı	ı		
i) Bonus		914,992	914,992		1,706,880
ii) Cumulative Professional Dev. Allowance		12,282,620	12,282,620		4,731,934
D) Contribution to Other Fund	1	ı	ı		
i) NPS Contribution		12,730,342	12,730,342		8,963,150
ii) Pension contribution (Deputation)		69,972	69,972		79,406
iii) EPF Contribution(Employer) MR & Others		3,022,629	3,022,629		1,509,791
iv) EPF Contribution FFW Workers' Society		302,906	302,906		127,047
E) Staff Welfare Expenses	1	ı	ı		
i) Mobile & Telephone expenditure		809,250	809,250		992,861
F) Retirement and Terminal Benefits	ı	ı	ı		
i) Death cum Retirement Gratuity		15,722,465	15,722,465		14,237,567
ii) Pension		55,981,703	55,981,703		51,082,760
iii) Commuted Pension		7,891,657	7,891,657		6,290,214

iv) Leave Encashment		6,663,385	6,663,385	9,347,355
v) Leave Salary (Deputation)		ı	ı	
G) LTC facility	ı	ı	1	
i) Home Travel Concession		2,249,228	2,249,228	2,032,900
ii) Leave Travel Concession		3,014,933	3,014,933	1,928,286
H) Medical facility	ı	ı	ı	
i) Medical Reimbursement		2,905,418	2,905,418	2,578,556
ii) Medicine & Dispensery expenses		798,363	798,363	1,064,671
 Children Education Allowances 		1,922,370	1,922,370	1,703,474
J) Honorarium		698,333	698,333	329,000
K) Others:	ı	1	ı	
i) Security Services		30,311,670	30,311,670	20,268,295
ii) House Keeping		26,382,522	26,382,522	10,262,461
ii) Joining Time TA		2,725	2,725	126,788
iii) Relocation Charges		14,160	14,160	212,905
			-	
Total	ı	544,221,101	544,221,101	421,796,352

SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFITS

			An
Particulars	Pension	Gratuity	Leave
Opening Balance as on	-	1	•
Addition: Capitalized value of Contributions received from other Organisations	•	-	•
Total (a)	1	-	•
Less : Actual payment during the year (b)	-	-	•
Balance Available on 31.03 (a-b)	-	1	٠
Provision required on 31.03 As per Actuarial Valuation (d)	•	-	•
A. Provision to be made in the Current year (d-c)	ı	ı	
B. Contribution to New Pension Scheme	-	-	
C. Medical Reimbursement to Retired Employees	•	1	•
D. Travel to Hometown on Retirement	-	ı	
E. Deposit Linked Insurance Payment	•	-	
Total (A+B+C+D+E)	ı	-	•

SCHEDULE 16- ACADEMIC EXPENSES

				An	Amount in Rupe
and in the G		Current Year	r		Previous Year
rationals	Plan	Non Plan	Total	Plan	Non Plan
a) Laboratories expenses		998,920	998,920		792,952
b) Field work/Participation in Conferences			ı		
c) Expenses on Seminars/workshops		69,521	69,521		241,997
d) Payment to visiting faculty		348,792	348,792		242,000
e) Examination		2,939,307	2,939,307		2,539,995
f) Students Welfare expenses - Student Internship			I		
g) Admission expenses			ı		
h) Convocation expenses		2,766,253	2,766,253		2,271,065
i) Publications			ı		
j) Stipend/Means-cum-Merit Scholarship		118,364,948	118,364,948	102,725,604	1,070,890
k) Subscription expenses			ı		
I) Contingency to Ph.D. Scholars			ı		1,178,534
m) Students Project		237,632	237,632		229,333
n) Library Contingency		217,010	217,010		35,620
o) Industry Institute Partnership exp			ı		
p) STIS Project Exp		482,773	482,773	750,006	ı
g) Internship Exp			ı		65,577
r) Industry Visit (MBA)			1		113,812
s) Student Orientation Program			1		
t) Summer Term Course Expenses			1		690,000
Total	'	126,425,156	126,425,156	103,475,610	9,471,775

SCHEDULE 17 - ADMINISTRATIVE AND GENERAL EXPENSES

					Amount in Rupe
		Current Year			Previous Yea
A. Insfrastructure	Plan	Non-Plan	Total	Plan	Non-Plan
a) Electricity		32,627,942	32,627,942		32,292,318
b) Water Charges		7,675,104	7,675,104		8,674,507
c) Insurance			ı		
d) Rent, Rates Taxes (including Property Tax)			ı		
B. Communication			ı		
e) Postage and Stationery		330,956	330,956		203,758
f) Telephone, Fax and Internet Charges		835,029	835,029		2,106,037
C. Others			ı		
g) Printing and Stationery (consumption)		1,087,017	1,087,017		2,299,749
h) Travelling and Conveyance Expenses		1,298,027	1,298,027		2,931,223
		276,751	276,751		392,402
j) Auditors Remuneration		668,520	668,520		551,900
k) Professional Charges - Legal fee		349,392	349,392		487,319
i) Advertisement and Publicity		3,404,375	3,404,375		1,185,074
m) Magazines & Journals - News paper		16,673	16,673		9,328
n) Training & Placement expenses		476,406	476,406		286,91
o) Board & Committee meeting		3,161,526	3,161,526		2,591,828
p) Computer Consumable		246,663	246,663		333,706
q) Initiative to foster Social Responsibility			1		
r) Misc. Expenses		63,737	63,737		211,931
s) Liverage			1		ı
t) Gyan Sagar expenses		88,363	88,363		67,132
u) Celebration of National Day		1,268,703	1,268,703		1,306,332

63,814,07	337,600	61,977,902	61,977,902	•	TOTAL
		2,674,802	2,674,802		tt) NITs Conclave Exp
442,781		798,288	798,288		ss)Insurance against Assets
		1			rr) Swachh Bharat Mission Exp
678,07		1,376,488	1,376,488		qq) Gymkhana Expenditure
31,467		23,260	23,260		pp) NSDL Service Charges
	337,600	1			oo) Mobilization expenditure
1		1			nn) Upgradation of Supporting Staff
1		1			mm) Telemedicine Project (CDAC)
1		1			ll) Smart Card Facilty
1		1			kk) Short Term Training Program
245,510		1			jj) RPC Project Exp
20,000		13,570	13,570		ii) Registration/Nomination fee
2,649,584		1,609,555	1,609,555		hh) Other Admin Exp
351,008		181,234	181,234		gg) Innovation Lab Exp
1,812,913		ı			ff) Incubation Centre CDAC
ı		ı			ee) HPC Cell Expenses
ı		ı			dd) ETH Project Exp
155,000		ı			cc) Award & Prizes
250,000		1			bb) Transit House Rent
		250,000	250,000		aa) Border Village Developemt Exp
71,060		1			z) Contingency Exp
453,43		131,200	131,200		y) Academic Audit Exp
266,801		352,006	352,006		x) Consumable expenses
174,996		217,960	217,960		w) Promotion of Rashtra Bhasha
249,991		474,354	474,354		v) NCC & NSS Activity

SCHEDULE 18 - TRANSPORTATION EXPENSES

					Amount in
		Current Year	ır		Current Yea
Particulars	Plan	Non-Plan	Total	Plan	Non-Plan
1. Vehicles (owned by Institution)	1		1		
a) Running Expenses	ı	2,284,203	2,284,203	ı	2,301,362
b) Insurance Expenses	ı	118,167	118,167	ı	132,897
2. Vehicles taken by Rent/Lease	ı	ı	ı	ı	ı
a) Rent/Lease Expenses	ı	ı	ı	ı	1
3. Vehicle (Taxi) hiring Expenses	ı	'	1	ı	ı
TOTAL	'	2,402,370	2,402,370	•	2,434,259

SCHEDULE 19 - REPAIRS & MAINTENANCE

					Amount in
Darticulars		Current Year	<u>.</u>		Previous Yea
	Plan	Non-Plan	Total	Plan	Non-Plan
a) Buildings	'	7,727,279	7,727,279	-	5,227,408
b) Furniture & Fixtures	ı	389,977	389,977	ı	157,120
c) Plant & Machinery	ı		ı	ı	ı
d) Office Equipment	ı	816,769	816,769	ı	1,899,009
e) Scientific Equipment - (Digital Labrary)	ı		ı	ı	373,875
f) Audio Visual Equipment	ı		ı	ı	ı
g) Cleaning Materials & Casual work	ı	47,929	47,929	ı	552,276
h) Book Binding Charges	ı		ı	ı	ı
i) Gardening	I	99,531	99,531	I	196,403
j) Estate Maintenance (Electrical)	ı	1,941,321	1,941,321	ı	2,376,510
k) Bio Gas Contingency expenses	ı		ı	ı	ı
l) D.G. Set	ı	4,494,316	4,494,316	I	3,433,494
m) Networking	ı	2,926,672	2,926,672	ı	299,941
n) Guest House Maintenances	-	308,354	308,354	1	347,103
TOTAL		18,752,148	18,752,148	•	14,863,139

SCHEDULE 20 - FINANCE COSTS

					Amount i
		Current Year			Previous Year
Particulars	Plan	Non-Plan	Total	Plan	Non-Plan
a) Bank Charges		-	-	12,714	9,612
b) Others	-	-	_	1	ı
TOTAL	-	1	-	12,714	9,612

SCHEDULE 21 - OTHER EXPENSES

		Current Year			Previous Year
Particulars	Plan	Non-Plan	Total	Plan	Non-Plan
a) Provision for Bad and Doubtful Debts/Advar	1	1	1	1	ı
b) Irrecoverable Balances/Written-off	1	1	1	ı	ı
c) Grants to Kendriya Vidyalaya	ı	32,557,000	32,557,000	ı	18,964,000
d) Support/Salaries to NITS-KIDS staff	-	676,851	676,851	-	602,403
TOTAL	-	33,233,851	33,233,851	-	19,566,403

SCHEDULE 22 - PRIOR PERIOD EXPENSES

Continued C		Current Year			Previous Year
raiticulais	Plan	Non-Plan	Total	Plan	Non-Plan
1) Establishment Expenses (CEA)	ı	ı	1	1	1
2) Academic Expenses	ı	ı	I	ı	ı
3) Administrative Expenses	ı	ı	ı	ı	1
4) Transportation Expenses	ı	ı	ı	ı	ı
5) Repair & Maintenance	ı	ı	I	ı	1
6) Others			-		
TOTAL	1		-	•	ı

RECEIPTS AND PAYMENTS ACCOUNT FOR FOR THE YEAR ENDED 31ST MARCH 2018 NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

L. Opening Balances: Current Year Previous Year L. Expens a) Cash Balances 15,322 8,108 a) Estab b) Bank Balance 677,215,479 198,857,444 c) Admin b) Acades i. In Current Accounts 242,186,904 146,166,713 d) Trans ii. Savings Account 242,186,904 146,166,713 d) Trans II. Grants Received: g) Non Recurring Grant: From Govt of India 781,550,000 365,000,000 II. Payme a) Non Recurring Grant: From Govt of India 781,550,000 365,000,000 II. Payme g) Non Recurring Grant: From Govt of India - - III. Payme	evious Year 1. Expenses: 8,108 a) Establishment expenses (Sch-15) b) Academic Expenses (Sch-16) c) Administrative Expenses (Sch-17) d) Transportation Expenses (Sch-17) d) Transportation Expenses (Sch-17) e) Repairs & Maintenance (Sch-19) f) Finance Cost g) Prior Period Expenses 921,560,000 h) Other Expenses (Sch-21) 365,000,000 II. Payments against Earmarked/Endowment Funds
Accounts Ount Grant: From Govt of India ivable: Grant: From Govt of India	
Accounts 677,215,479 198,857,444 Ount 242,186,904 146,166,713 Grant: From Govt of India 419,950,000 921,560,000 ivable: 781,550,000 365,000,000 Grant: From Govt of India - -	
Accounts Ount Ount Crant: From Govt of India ivable: Grant: From Govt of India	
Accounts 677,215,479 198,857,444 Ount 242,186,904 146,166,713 Grant: From Govt of India 419,950,000 921,560,000 ivable: 781,550,000 365,000,000 Grant: From Govt of India - -	
ount 242,186,904 146,166,713 Grant: From Govt of India 419,950,000 921,560,000 ivable: 781,550,000 365,000,000 Grant: From Govt of India -	
Grant: From Govt of India 419,950,000 921,560,000 it: From Govt of India 781,550,000 365,000,000 ivable:	
Grant: From Govt of India 419,950,000 921,560,000 it: From Govt of India 781,550,000 365,000,000 ivable:	
Grant: From Govt of India t: From Govt of India 781,550,000 365,000,000 ivable: Grant: From Govt of India	
rom Govt of India 419,950,000 921,560,000 Govt of India 781,550,000 365,000,000 rom Govt of India -	
Govt of India 781,550,000 365,000,000 rom Govt of India -	5,000,000 II. Payments against Earmarked/Endowment Funds - III. Payments against Sponsored Projects
rom Govt of India	
rom Govt of India	
b) Recurring Grant: From Govt of India	- Misc Payments against Grant/Conference
IV. Payme	IV. Payments against Sponsored Scholarship
III. Academic Receipts - 198,258,439	8,258,439
V. Investr	V. Investments and Deposits made
IV. Receipts against Earmarked/Endowmwnt - 10,062,189 a) O	0,062,189 a) Out of Earmarked
Funds b) Ou	b) Out of own funds(Investments-others)
V. Receipts against Sponsored Project:	VI. Term Deposits with Schedule Banks
Grants Received from AICTE/GOI 21,474,096 15,123,617	5,123,617
Other Misc Receipts against Conference - 7,531,669	7,531,669
VI. Receipts against sposored Fellowships & - 12,592,728 VII. Exper	12,592,728 VII. Expenditure on Fixed Assets and Capital Works- in -Prog
Scholarships a) Fix	a) Fixed Assets

RECEIPT AND PAYMENTS ACCOUNT FOR FOR THE YEAR ENDED 31ST MARCH 2018

	- OLAL	2.203.007.110	Z.144,047,320.00	
		011 220 020 0	00 000 507 777 6	IATOT
		127,850,351	ı	XIV. Any other Receipts
				Receipts
		76,605,131	1	XIII. Miscellenous Receipts including Statutory
		152,102,639	•	Loans & Advances
		461,379	•	Other Deposits (S Debtors)
216,954,214	iii. Savings Account			Plant Machinery & Equipment
1,237,567,862	i. In Current Accounts			XII. Deposits and Advances
	b) Bank balances			Income) (Sch-13)
51,225	a) Cash in hands	27,767,395	•	XI. Other income (including prior Period
	XII. Closing balances			encashed
		3.200.000	1	X. Term Deposits with Scheduled Banks
ı	XI. Other Payments			IX. Investments encashed
		1,298,786	2,256,119	e) Against Project Account
		2,969,594	1	d) Interest on Auto Sweep A/c
		285,422	1	c) Savings Bank Account
ı	1,578,273 X. Deposits and Advances	1,578,273	1	b) Loans and Advances
				a) Bank Deposit
381,905	IX. Refund of Grants (Sponsored Projects)			VIII. Interest received :
	Viii. Other Payments including statutory			b) Other investments
		587,241	1	a) Earmarked/Endowment funds
•	b) Capital works -in- Progress			VII. Income on Investments from
Current Year	PAYMENTS	Previous Year	Current Year	RECEIPTS
Amonu				

Dated, Silchar The 18th June 2018

Directo

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR SCHEDULES FORMING PART OF RECEIPTS & PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2018

RECEIPTS:	Amount	in Rupees
Particulars	Current Year	Previous Year
NON RECURRING GRANT : RECEIVED FROM GOVT OF INDIA:	419,950,000	921,560,000
RECURRING GRANT: RECEIVED FROM GOVT OF INDIA	781,550,000	365,000,000
GRANTS-IN-AID RECEIVABLE FROM GOVT OF INDIA:		
Grant Receivable Plan	-	-
Grant Receivable Non Plan	-	-
Total	1,201,500,000	1,286,560,000
Academic Receipts		
Academic Fee		
Tuition Fees		172,372,790
Admission Fee		3,877,500
Library Fee		3,099,500
I.T System Fee		6,198,000
Examination Fee		4,420,800
Late Fine/Penalty		283,629
Misc Fees		385,500
Medical Facility Fee		1,888,740
Transportation Fees		2,565,180
Summer Term Course Fee		240,000
Other Academic Receipts		
Training & Placement Fee		581,500
Short Term Training Programme Fee		26,300
Development Fee		2,319,000
Total	-	198,258,439
EARMARKED / ENDOWMENT FUND:		
Pension Fund Contribution		7,439,584
Depreciation Fund		
Maintenance Fund		
Staff Dev Fund		
NMEICT Fund		35,000
Student Aid Fund		785,000
Total (A)	-	8,259,584
<u>CORPUS FUND</u> :		
Corpus Fund		4,119
Corpus fee received from Students		785,000
Migration fee (Charged under income of Corpus Fund)		3,200
Institute Share from Transcript fee		321,720
Corpus Fund interest on Savings Bank		688,566
Received from Development fee		
Total (B)	-	1,802,605
Grand Total (A+B)	-	10,062,189

Grants Received against Sponsored Projects:			
MCIT : Gol		4,733,989	3,910,875
SERB : GoI		10,038,810	7,784,581
DST: Gol		467,279	2,905,766
MNRE: Gol		-	354,395
BRNS: Gol		386,795	334,333
NRRDA		300,733	
DIETY	\dashv		
UGC		197,556	168,000
ICSSR		80,000	
CPRI		1,497,000	
NMHS		2,072,000	
DDMA		1,518,000	
CSIR		482,667	
	otal	21,474,096	15,123,617
OTHER MISC. GRANTS/SPONSHORSHIP:	Jean	21,474,030	13,123,017
Received from SERB (DST)			
Received from CBSE			145,741
Manish Roy Memorial Scholarship Fund			10,000
NRDC Grants	\dashv		200,000
PMMMNT SCHEME			
Faculty Development Programme			
Visveswariya PhD Scheme			
NRFCC BRNS Projects			386,795
Assam Disaster Management GHY			162,000
IGNCA			480,375
IIBM GHY			188,463
VLSI Hands on Training			63,000
GIAN Course Fee			329,100
GIAN FUND			3,808,000
IIT GATE			109,075
MOOC'S Project (Library)			80,000
NRRDA Project			273,750
NISE-Solar Energy Awareness Fund			270,000
START UP India			375,000
Business Emviroment Law Curriculam			650,000
INSPIRE Internship			370
·	otal	-	7,531,669
I. Receipts against sposored Fellowships and Scholarships:			,== ,===
Outside Scholarship Payable	\neg		12,385,728
Doctoral Fellowship (ICSSR)	\neg		207,000
• • •	otal	_	12,592,728

INTEREST RECEIVED FROM EARMARKED FUND:			
Depreciation Fund Interest on Savings Account			109,6
Maintenance Fund Interest on Savings Account			182,9
Staff Dev Fund Interest on Savings Account			92,9
Gratuity Fund Interest on Savings Account			201,7
	Total	-	587,2
SH-12 Interest Earned			
Interest on Saving A/c			
Interest on Fees A/c			188,8
Interest on Scholarship A/c			96,5
Interest on Savings Bank A/c			
	Total	-	285,4
Interest Others			
Interest on (Auto Sweep) Non Plan			2,969,0
Interest on Auto Sweep A/c (Fee)			
Interest Others			Ĺ
	Total	-	2,969,5
Interest Against Project A/c			
Interest on SavingA/c (Sponsored projects a/c.)		2,229,919	1,298,
Misc Receipts (DST)		3,200	
Testinh Fee (MNRE)		23,000	
, ,	Total	2,256,119	1,298,
Investment with scheduled banks			
Investment (Nonplan Fees)			
Investment (Plan- Margin Money A/C)			3,200,0
	Total	-	3,200,0
Other Income (Incuding Prior Period Income)			
Income From Land & Building			
License Fee			2,261,
Hire Charges for Shops Canten and Office			1,229,6
Seat Rent/Hostel Room Rent			6,007,0
Guest House Room Rent			1,433,0
Electricity Consumption Receipts			5,679,4
Light & Water (Hostel)			6,007,0
RTI Fees			
Application Fee			81,8
Tender Form Fee			354,
Scrap Sale			
Misc Receipts			3,181,
Institute Overhead on Consultancy			1,162,
Lake Fishing Rights			367,
	Total	-	27,767,
Margin Money for LC			1,578,2
	Total	_	1,578,2

OTHER DEPOSITS:	
Solar Regional Test Centre	
Lab Equipment	
Accrued Interest on Fee A/c Investment	
Accrued Interest on LC Investment	2,898
Electricity Consumpation Receivable	393,976
House Rent Recivable	28,548
Shops & Canteen Rent Recivable	23,930
From CDAC	12,027
Advance Tax	
Receivable against SocPros	
Claims against RTC Project	
Grand Total	- 461,379
Loans, Advances & Deposits	102,010
Sundry Debtors	
Panorama International	1,166,736
Godrej & Boyce Mfg Co Ltd	905,000
Advance to Employees	300,000
HTC Advance	508,585
LTC Advance	1,300,306
Other Advance To Employees	1,555,555
Recoverable Advance	3,409,990
Recoverable Advance (Project)	373,000
TA Advance	1,514,645
Soft Loan (Staff)	977,507
Festival Advance	869,720
Medical Advance	300,1.20
Other Salary Advance	1,121,000
Loan to CSAB	358,300
Deposit Work	
Secured Advance Recovery	94,550,000
Mobilisation Advance	15,000,000
Advavce Recovery against Works	
Advance to PHE (Water Supply)	
Advance Recovery from Firm	
Receivable from CSAB	22,480,000
Receivable from CCMT	6,440,000
Loan to CCB/CCMT	232,850
AIU Workshop	20,000
Loan to TEQIP (Recovery)	875,000
Total	- 152,102,639

Dravision TAV.	PTS:	
Provision -TAX:		46.646
VAT		16,616
Vat Project		72
Income Tax (Against Salary & Contrats)		32,215
Income Tax -Project		27
Professional Tax		841
Professional Tax (Project		34
Service Tax		10
Labour Cess		2,685
GSLI		680
EPF Subscription MR Employee		1,357
EPF Subscription FW Workers Society		276
GPF Advance Recovery		1,667
GPF		250
GPF Subscription		10,906
NPS Subscription		8,963
	Total	- 76,605
OTHER DEPOSITS:		
Hostel Caution Money		7,680
Institute Caution Money		3,950
Sundry Creditors		
Godrej Mfg Co. Ltd		
M/s Sify Technologies Ltd		3,564
Shree Ganesh Associates		38
Nurul Hussain Barbhuiya		20
AK Choudhury		
NESS Pvt Ltd		
NCC Ltd		24,782
DHR Holding Pvt Ltd		19
Panorama International		102
Earnest Money Deposit		1,827
Security Deposit		1,614
SD Project		56
Load Security		
Alumini Association Fee		785
Deposit Remittance		1,147
Deposit Remittance (project)		18
Recovery of Licence Fee & Electricity (Project)		3
Other Payables (Projects)		5
CCTV Payable		883
SOLV LUYUDIC		363

Gymkhana	6,203,000
Hostel Management	2,946,500
Hostel Welfare	
Institute Share on Consultancy	239,413
Leave Encashment Payable (Other Org)	218,389
Mess Dues	533,408
Liability Towards DCRG	100,000
L.I.C.I Payable	4,747,791
NPS Subscription & Contribution (Other Org)	
Pension Fund Contribution (Other Org)	120,750
Mediclaim Insurance	1,646,820
Mess Advance	
Mess Establishment	5,433,000
Processing Charges	474,400
Refundable Excess Deposit	52,579,080
Student Mediclaim	797,788
Transcript Fee	893,700
Verification fee	171,400
Counselling Fee (DASA)	100,000
Computer (Receipts from Project A/c)	61,000
Self Finance Course	37,000
Recovery against Trainee Teachers (RD)	144,500
Consultancy charges payable to Civil Engg. Department	
Unclassified receipts	32,300
Plan interest on Auto Sweep	1,386,091
Plan Interet on Mobilization Adv	375,205
Plan Grant (Axis Bank & Others)	292,981
Total	- 127,850,351

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR SCHEDULES FORMING PART OF RECEIPTS & PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2018

PAYMENTS:	Amount	in Rupees
Particulars	Current Year	Previous Year
Establishment Expenses		
Salary Teach & Admin		183,168,150
Salary Class-III		24,947,549
Salary Class-IV		28,208,353
Salary of Cont. Staff (Teach/admin/III/IV)		17,166,067
Salary of MR Staff		10,333,968
Salary of Outsourced Staff		14,500,250
Bonus		1,706,880
Professional Dev Allowance		4,349,284
NPS Contribution		8,213,370
Pension Contribution (Depu)		79,406
EPF Contribution on FFW Workers		127,047
EPF Contribution on MR Salary		1,381,674
Mobile & Telephone Bill Reimbursement		381,413
Death Cum Ret. Gratuity		14,237,567
Pension		48,982,902
Commuted Pension		6,290,214
Leave Encashment		9,283,462
Home Travel Concession		1,717,990
Leave Travel Concession		1,822,599
Medical Reimbursement		1,767,248
Medicine & Dispensary Exp		850,373
Honorarium/Sitting Fees		329,000
Security Services		18,528,270
House Keeping		8,814,615
Joining Time T.A		126,788
Relocation Charges (Transportation)		212,905
Tota	<u> </u> -	407,527,344

	6== 00
Lab Consumable	657,99
Seminer & Conferences	96,03
Visiting Faculty Remuneration	206,00
Examination Expenses	2,151,31
Convocation Expenses	2,239,99
Stipend to M.Tech/ Ph.D	94,506,09
Contingency to Phd	1,178,53
Student Project Expenses	229,33
Library Contingency	35,62
Internship Exp	65,57
Industry Visit (MBA)	113,81
STIS Project	590,26
Summer Term Course Exp	690,00
To	otal - 102,760,56
ministrative Expenses	
Electricity & Power Charges	29,730,20
Water and Electricity Charges to PHE	7,922,96
Postage Exp	203,75
Internet Expenses	2,029,84
Telephone Charges	68,47
Printing and Stationary Exp	2,165,76
Local Conveyance	10,74
TA/DA Expenses	2,783,42
Hospitality Exp/Refreshment	320,48
Audit Fees	551,90
Professional Fee & Legal Exp	487,31
Advertisement Expenses	1,090,13
News Paper & Periodicals	9,32
Training & Placement Expenses	267,52
Board & Committee Meeting	2,043,78
Computer Consumable Exp	271,02
Miscellanous Exp	164,68
Gyan Sagar Exp	10,86
Celebration of National Day	611,04
NCC & NSS Activities	153,87
Promotion of Rashtriya Bhasha	121,17
	,

Academic Audit Expenses			336,709
Contingency Expenses			
Transit House Rent			250,000
Award & Prizes			155,000
ETH - Project Exp			
Incubation Centre (CDAC)			
Innovation Lab Exp			252,458
Other Admin Exp			2,347,404
Registration/Nomination Fee			50,000
RPC Project Exp			119,462
Short Term Training Programme			
Upgradation of Supporting Staff			
Junior Engg Staff Salary			337,600
Mobilisation Exp			
NSDL Service Charges			31,467
Gymkhana Expenditure			417,882
	Total	-	55,539,954
Transportation Expenses			
Vehicle Running Expenses			1,612,055
Insurance Exp- Vehilces			96,640
	Total	-	1,708,695
Repairs and Maintenance Expenses			
Repairs & Maintenace- Building & Others			3,972,895
Maintenance of Furniture & Fixtures			157,120
Repairs and Maintenace- Tools Equipments			1,001,550
Maintenance of Digital Library			174,850
Casual Work & Carriage			547,016
Gardening & Horticulture			100,000
Repairs & Maintenance- Electricity			2,065,438
Maintenance of D.G Set			3,069,324
Manitenance of Networking			299,941
Repairs & Maintenace of Guest House			299,700
Book Binding Expenses			
	Total	-	11,687,834
Finance Cost			
Bank Charges			22,326
	Total	-	22,326

Prior Period Exp (CEA)			
	Total	-	
Other Expenses			
Support to NITS KIDS School			552,971
Support to Kendriya Vidyalaya			18,964,000
	Total	-	19,516,971
EARMARKED FUND / ENDOWMENT FUND :			
Corpus Fee			12,000
Pension fund Contribution			11,717
NMICT Awareness Program Fund			425,305
Student Aid Fund			174,089
	Total	-	623,111
SPONSORED PROJECTS:			
Expenditure against Sponsored Projects			
Capital Expenditure			
Equipment		8,545,419	3,636,132
Computer		-	348,899
Software		-	-
Furniture		-	55,365
Books		96,611	
Revenue Expenditure		10,934,329	11,190,920
	Total	19,576,359	15,231,316
FELLOWSHIP / SCHOLARSHIP :			
Outside Scholarship Payable			10,048,931
Doctoral Fellowship (ICSSR)			207,000
	Total	-	10,255,931
INVESTMENTS & DEPOSITS:			
OUT OF EARMARKED/ENDOWMENT FUNDS;			
Investment of Depreciation Fund			
Investment of Maintenace Fund			
	Total		-
OUT OF OWN FUNDS;			
Investment KIDs NITS			
Investment- LC Margin Money A/C			3,600,000
	Total	_	3,600,000

EXPENDITURE ON FIXED ASSETS		
Software Developments		524,201
E-Journals		16,861,558
Patent and Copyright		83,551
Buildings		
Boys Hostel No.7		
Girls Hostel-2		
Guest House (Old)		
Hostels Including Spcl Repair		
Institute Building Renovation		490,683
Production Engg Lab		
Security Barack - II		
Lecturers Quarter		
Staff Quarters (Type A,C,D)		55,061
Staff Quarters Type IV 30 Units		1,855,447
Central School Building & quarters		52,144
Sports Complex & Auditorium		478,837
Roads & Bridges		
Renovation of Internal Road and gate		1,420,044
Campus Development		
Campus Development/Beautifcation		1,956,453
Childrens Park		
Renovation of Internal Road & Gate		
Boat Club		
Security Wall		75,015
Sports Field Volley Ball/Tennies		320,717
Plant, Machinery & Equipments		
Audio Visual Equipments		2,284,801
Electrical Equipments		957,793
Equipments of Health Centre		1,047,375
Lab Equipments		15,625,401
Gym Equipment		45,000
L T Line & UG Cabeling		1,438,830
Solar Street Lighting		429,000
Furniture Including Hostels		5,139,922
Office Equipments		1,991,082
Computer Pheriphrals Including Projects		3,543,445
Books		1,102,428
Water Supply Scheme		
Childrens Park Equipments		
Networking		12,476,354
	Total	- 70,255,142

CAPITAL WORK IN PROGRESS:			
Boys Hostel-9 (WIP)			258,844,615
Library Building (WIP)			116,840
Married Scholar Hostels (WIP)			
New Academic Building(WIP)			
New Admin Building(WIP)			835,819
Non Faculty Staff Qtrs-100 Nos.(WIP)			
Type (VI)Qtr 12 Units (WIP)			
Type (V)Qtr 20 Units (WIP)			822,766
Sports Complex (WIP)			
Health Care Centre (WIP)			6,405,010
Expansion of E.E Building (WIP)			
Auditorium Building			
Eatout Dhaba			
NABL Accrediated Lab Bldg (WIP)			
Earthquake Engg Lab Bldg			
	Total	-	267,025,050
PROVISIONS : (TAX)			
VAT			15,063,036
Vat (project)			72,398
Income Tax (Against Salary & Contrats)			32,397,202
Income Tax (Project)			27,974
Professional Tax			752,862
Professional Tax (Project)			17,449
Service Tax			10,500
Labour Cess Payable			2,860,818
	Total	-	51,202,239
Refund to Ministry (Project A/C)			
Refund from Project Account		381,905	106,071
	Total	381,905	106,071
Loans, Advances & Deposits			
<u>Sundry Debtors</u>			
Panorama International			1,248,700
Godrej & Boyce Mfg Co Ltd			905,000
Advance to Employees			
HTC Advance			802,400
LTC Advance			1,423,200

Other Advance To Employees	
Recoverable Advance	15,539,903
Recoverable Advance (Project)	373,000
TA Advance	1,636,400
Soft Loan (Staff)	250,000
Festival Advance	746,000
Medical & Other Advance	500,000
Other Salary Advance	1,121,000
Receivable from Saswat Chakraborty	14,000
Prepaid Insurance Exp	798,288
Security Deposit (LPG- Hostel)	46,200
Advances & Other Receivable on Capital A/c	
Deposit Work	
Deposit Work-33 KV Substation	
Deposit Work-CPWD Central School	
Deposit Work-CPWD Non/faculty Qtrs	
Deposit Work-CPWD New Admin Building	
Deposit Work-CPWD Swage Disopl. Sytm	6,400,000
Deposit Work-HPL Married Sch Hostel	
Deposit Work-PHE-Agmn Water Supply	
Deposit Work-PHE- Water Supply Scheme	
Deposit Work - APDCL	
Secured Advance	125,150,000
Margin Money for LC against Equipment	2,889,619
Advance to Firms/Suppliers	
Adv to Firm- PHE Water Supply	
Total	- 159,843,710
Current Liabilities & Provisions	
Hostel Caution Money	2,450,000
Institute Caution Money	1,579,000
Creditors for Goods& Services (Incl.EMD & SD)	
Godrej Mfg Co Ltd	
IL&FS Technologies	
S.M Khetwat	
M/s Agni Power & Electronics Pvt. Ltd.	544,400
M/s A.K.Choudhury	
NCC Ltd	16,797,056
Nurul Hussain Barbhuiya	75,037
Shree Gonesh Associates	38,000
Earnest Money Deposit	4,183,358
Security Deposit	1,980,569
GSLI Payable	733,230

EPF Subscription MR Employees	1,357,341
EPF Subscription FFW Workers' Society	113,312
GPF Advance Recovery	1,521,942
GPF Payable (Others)	250,000
GPF Subscription Payable (Others)	
GPF Subscription Payable	10,043,100
NPS Subscription Payable	8,213,370
Vishveshwaraiya PhD Scheme	
PMMNT Fund	230,725
SIS Library	
DST (SERB Project)	
CBSE Fund	49,741
NRDC Fund	
Business Environment Law Cirriculum Fund	
WNL Library	
INDEST 2014, Library	
INSPIRE	900,370
GIAN Course Fee	43,000
GIAN Fund	3,808,000
NISE Solar Energy Awareness Fund	261,163
Manish Roy Memorial Fund	10,000
START UP India	441,758
Alumini Association Fee	12,000
CCTV Payable	486,631
Deposit Remittance	321,330
Group Insurance Claim	1,569,260
Gymkhana	296,605
Hostel Management	2,889,000
Hostel Welfare	
Institute Share on Consultancy	
Liability Towards DCRG	50,000
L.I.C.I Payable	4,353,618
NPS Subscription & Contribution (Other Org)	
Mediclaim Insurance	1,695,532
Mess Advance	
Mess Dues	403,183
Mess Establishment	1,899,842
Processing Charges	407,500
Refundable Excess Deposit	52,417,413
Student Mediclaim	608,373
Transcript Fee	660,700
Children Education Allowance Payable	1,768,513

Electricity & Power Charges Payable	2,492,528
Contractual Staff Salary Payable	3,606,892
MR Staff Salary Payable	978,752
Security Service Charges Payable	1,688,581
Stipend to M.Tech/ Ph.D Payable	9,189,467
Support to NITS KIDS Staff Payable	50,400
Telephone Charges payable	575,672
Vehicle Repair Expenses Payable	129,181
Unclassified Receipts	28,642
EPF Contb MR Staff Payable	130,852
House Keeping Charges Payable	1,045,015
PhD Contingency Payable	54,536
Self Finance Course	37,000
Provision Non Plan Others	
Provision Plan Others	2,377,615
Consultancy Cell CE Department	15,917
Payable to Depreciation Fund	
Payable to Maintenance Fund Fund	
Depreciation Fund (Loan Refunded)	
Maintenance Fund (Loan Refunded)	
Staff Development Fund Payable	
Verification Fee	1,000
Refund from RPS Project A/c	
Prepaid E-Journals	
Prepaid AMC	
Prepaid Insurance	
Other Receivable	
Loan to CSAB	358,300
Receivable from CCMT	6,440,000
Receivable CSAB	17,080,000
Loan Solar RTC Project	354,395
Loan to TEQIP	885,972
TDS Receivable (I Tax) including Project	358,462
Loan to SMDP Project	200,000
Claims Receivable	
Receivable GH1	
Receivable against AIU Workshop Library	
Receivable Hostel 8	
EPF Subscription MR Employees (Recoverable)	
Total	- 173,543,151

		325761938 Balance	3alance	
NON-RECURRING GRANT 112-35	722011104.00	221615882	221615882 500395222.00	
NON RECURRING GRANT 789-35	67645432.00	67645432.00		Total Capital Expenditure
NON-RECURRING GRANT 796-35	26064230.00	26064230.00		Gross Assets as on 31.03.18
PLAN GRANT INTEREST-Accrued	113974.00	113974.00		Gross Assets as on 01.04.17
PLAN GRANT INTEREST (Auto Sweep)	9959683.00	9959683.00		Total Addition
PLAN GRANT INTEREST-Others	362737.00	362737.00		Less: Patent Appication
		325761938		Net Additon from Plan Grant
		0		Add: Assets Deletion of 100kvp

Add: Refund to Ministry

		Utilization		
RECURRING GRANT 112-31	138904039.00	138904039.00 138904039.00	0.00	
RECURRING GRANT 112-36	578075000.00	404076573	173998427.00	
RECURRING GRANT 789-31	10076111.00	10076111.00	0.00	
RECURRING GRANT 789-36	40775000.00	40775000.00	0.00	
RECURRING GRANT 796-31	4293926.00	4293926.00	0.00	
RECURRING GRANT 796-36	19300000.00	1930000.00	0.00	
Grand Total	1617581236.00	617425649		

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT

SCHEDULE 15 - STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)

Particulars		<u>-</u>
i) Teaching & Admin	36	243,902,769
ii) Group B & C	36	22,203,970
iii) Group D	36	39,807,526
i) Salary of outsourced staff	36	249,284
ii) Salary of Contractual Teaching & Admin	36	34,547,596
iii) Salary of M R Staff	36	18,813,313
i) Bonus	36	914,992
ii) Cumulative Professional Dev. Allowance	36	12,282,620
i) NPS Contribution	36	12,730,342
ii) Pension contribution (Deputation)	36	69,972
iii) EPF Contribution(Employer) MR & Others	36	3,022,629
iv) EPF Contribution FFW Workers' Society	36	307,906
i) Mobile & Telephone expenditure	36	809,250
i) Death cum Retirement Gratuity	36	15,722,465
ii) Pension	36	32,623,252
iii) Commuted Pension	36	7,891,657
iv) Leave Encashment	36	6,663,385
i) Home Travel Concession	36	2,249,228
ii) Leave Travel Concession	36	3,014,933
i) Medical Reimbursement	36	2,905,418
ii) Medicine & Dispensery expenses	36	798,363
I) Children Education Allowances	36	1,922,370
J) Honorarium	36	698,333

SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

SCHEDULE 21 - OTHER EXPENSES

					Amount
Darticulars		Current Year	_		Previous Y
	Plan	Non-Plan	Total	Plan	Non-Plan
a) Provision for Bad and Doubtful Debts/Advances	ı	-	ı	-	1
b) Irrecoverable Balances/Written-off	ı	ı	ı	ı	ı
c) Grants to Kendriya Vidyalaya	ı	32,557,000	32,557,000 32,557,000	ı	18,964,000
d) Support/Salaries to NITS-KIDS staff	ı	676,851	676,851	-	602,403
TOTAL	ı	33,233,851	33,233,851	-	19,566,403

RECEIPTS AND PAYMENTS ACCOUNT FOR FOR THE YEAR ENDED 31ST MARCH 2018 NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

I. Opening Balances: a) Cash Balances b) Bank Balance i. Current Accounts ii. Savings Account li. Grants Received:	8,108 198,857,444 146,166,713 921,560,000	8,108 a) Establishment expenses b) Academic Expenses 198,857,444 c) Administrative Expenses 146,166,713 d) Transportation Expenses e) Repairs & Maintenance f) Finance Cost g) Prior Period Expenses 921,560,000 h) Other Expenses	Current Year 454,223,115 114,293,933 52,971,115 2,036,887 16,398,196 38,366 33,176,655
ounts 677,2 0 ount 242,1	8,108 198,857,444 146,166,713 921,560,000	a) Establishment expenses b) Academic Expenses c) Administrative Expenses d) Transportation Expenses e) Repairs & Maintenance f) Finance Cost g) Prior Period Expenses h) Other Expenses	454,223,115 114,293,935 52,971,115 2,036,887 16,398,196 38,366 33,176,652
ounts 677,2 ount 242,1	8,108 198,857,444 146,166,713 921,560,000	a) Establishment expenses b) Academic Expenses c) Administrative Expenses d) Transportation Expenses e) Repairs & Maintenance f) Finance Cost g) Prior Period Expenses h) Other Expenses	454,223,115 114,293,935 52,971,115 2,036,887 16,398,196 38,366 33,176,655
ounts	198,857,444 146,166,713 921,560,000	b) Academic Expenses c) Administrative Expenses d) Transportation Expenses e) Repairs & Maintenance f) Finance Cost g) Prior Period Expenses h) Other Expenses	114,293,935 52,971,115 2,036,887 16,398,196 38,360
ount	198,857,444 146,166,713 921,560,000 365,000,000	c) Administrative Expenses d) Transportation Expenses e) Repairs & Maintenance f) Finance Cost g) Prior Period Expenses h) Other Expenses	52,971,11! 2,036,88; 16,398,19(38,36(- 33,176,65;
ount	146,166,713	d) Transportation Expenses e) Repairs & Maintenance f) Finance Cost g) Prior Period Expenses h) Other Expenses	2,036,887 16,398,19(38,36(- 33,176,652
II. Grants Received:	921,560,000	e) Repairs & Maintenance f) Finance Cost g) Prior Period Expenses h) Other Expenses	16,398,196 38,360 - 33,176,652
II. Grants Received:	921,560,000	f) Finance Cost g) Prior Period Expenses h) Other Expenses	38,36(- 33,176,65:
II. Grants Received:	921,560,000	g) Prior Period Expenses h) Other Expenses l Payments against	33,176,652
	921,560,000	h) Other Expenses	33,176,65:
a) Non Recurring Grant: From Govt of India 419,950,000	365,000,000	Payments against	
b) Recurring Grant: From Govt of India 781,550,000	/		
		Earmarked/Endowment Funds	63,565
Grants-in-Aid Receivable :			
a) Non Recurring Grant: From Govt of India	ı	III. Payments against Sponsored Projects	17,868,515
b) Recurring Grant: From Govt of India	1	Misc Payments against Grant/Conference	
		IV. Payments against Sponsored Scholarship	4,509,927
III. Academic Receipts 202,486,784	198,258,439		
		V. Investments and Deposits made	
IV. Receipts against Earmarked/Endowmwnt 6,679,400	10,062,189	a)Out of Earmarked	ı
Funds		b) Out of own funds(Investments-others)	ı
V. Receipts against Sponsored Project:		VI. Term Deposits with Schedule Banks	
Grants Received from AICTE/GOI	15,123,617		
Other Misc Receipts against Conference 14,590,334	7,531,669		
VI. Receipts against sposored Fellowships & 2,191,500	12,592,728	12,592,728 VII. Expenditure on Fixed Assets and Capital Works- in -Progre	Norks- in -Progre
Scholarships		a) Fixed Assets	72,025,942

RECEIPT AND PAYMENTS ACCOUNT FOR FOR THE YEAR ENDED 31ST MARCH 2018

				Amonut
RECEIPTS	Current Year	Previous Year	PAYMENTS	Current Year
VII. Income on Investments from			b) Capital works -in- Progress	139,148,445
a) Earmarked/Endowment funds	123,541.00	587,241		
b) Other investments			Viii. Other Payments including statutory	45,399,358
VIII. Interest received :			IX. Refund of Grants (Sponsored Projects)	381,90
a) Bank Deposit				
b) Loans and Advances	7,557,341	1,578,273	1,578,273 X. Deposits and Advances	114,593,120
c) Savings Bank Account	104,589	285,422		
d) Interest on Auto Sweep A/c	6,902,609	2,969,594		
e) Against Project Account	2,251,172	1,298,786		
IX. Investments encashed			XI. Other Payments	180,374,16
X. Term Deposits with Scheduled Banks encashed	2,537,371	3,200,000	XII. Closing balances	
XI. Other income (including prior Period	26,436,932	27,767,395	a) Cash in hands	51,225
Income)			b) Bank balances	
XII. Deposits and Advances			i. Current Accounts	1,237,567,862
Plant Machinery & Equipment			ii. Savings Account	216,954,21
Other Deposits (S Debtors)	657,169	461,379		
Loans & Advances	111,516,838	152,102,639		
XIII. Miscellenous Receipts including Statutory	64,931,994	76,605,131		
Receipts				
XIV. Any other Receipts	110,717,136	127,850,351		
TOTAL	2,702,076,510	2,269,867,118	TOTAL	2,702,076,51

Registrar

Dated, Silchar The 18th June 2018

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR SCHEDULES FORMING PART OF RECEIPTS & PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2018

RECEIPTS:	Amount i	n Rupees
Particulars	Current Year	Previous Year
GRANTS-IN-AID RECEIVED FROM GOVT OF INDIA:		
NON RECURRING GRANT : RECEIVED FROM GOVT OF INDIA:	419,950,000	921,560,000
RECURRING GRANT: RECEIVED FROM GOVT OF INDIA	781,550,000	365,000,000
GRANTS-IN-AID RECEIVABLE FROM GOVT OF INDIA:		
Grant Receivable Plan	-	-
Grant Receivable Non Plan	-	-
Total	1,201,500,000	1,286,560,000
Academic Receipts		
Academic Fee		
Tuition Fees	174,763,358	172,372,790
Admission Fee	4,675,000	3,877,500
Library Fee	3,128,900	3,099,500
I.T System Fee	6,219,500	6,198,000
Examination Fee	6,526,100	4,420,800
Late Fine/Penalty	160,296	283,629
Misc Fees	408,030	385,500
Medical Facility Fee	1,864,800	1,888,740
Transportation Fees	1,864,800	2,565,180
Summer Term Course Fee	, ,	240,000
Other Academic Receipts		·
Training & Placement Fee	509,000	581,500
Short Term Training Programme Fee	,	26,300
Development Fee	2,367,000	2,319,000
Initial Fee	-	· · · · · · · · · · · · · · · · · · ·
Total	202,486,784	198,258,439
EARMARKED / ENDOWMENT FUND:		
Pension Fund Contribution	4,507,569	7,439,584
Depreciation Fund	-	
Maintenance Fund	-	
Staff Dev Fund	-	
NMEICT Fund	78,565	35,000
Student Aid Fund	795,000	785,000
Total (A)	5,381,134	8,259,584
CORPUS FUND:		
Corpus Fund	46,582	4,119
Corpus fee received from Students	795,000	785,000
Migration fee (Charged under income of Corpus Fund)	2,200	3,200
Institute Share from Transcript fee & Verification Fee	452,505	321,720
Corpus Fund interest on Savings Bank	1,979	688,566
Received from Development fee		<u> </u>
Total (B)	1,298,266	1,802,605
Grand Total (A+B)	6,679,400	10,062,189

Grants Received against Sponsored Projects:		
MCIT : Gol	4 722 000	2 010 0
	4,733,989	3,910,8
SERB : Gol	10,038,810	7,784,
DST: Gol	467,279	2,905,
MNRE: Gol	206 705	354,
BRNS: Gol	386,795	4.60
UGC	197,556	168,
ICSSR	80,000	
CPRI	1,497,000	
NMHS	2,072,000	
DDMA	1,518,000	
CSIR	482,667	
Total	21,474,096	15,123,
ER MISC. GRANTS/SPONSHORSHIP:		
Received from SERB (DST)	157,548	
Received from CBSE	72,000	145,
Manish Roy Memorial Scholarship Fund	8,316	10,
K.K Mrinalini Kroni Gold Medal Fund	4,160	
Abhijit Hom Choudhury Memorial Award Fund	15,315	
Saswata Purkayastha Memorial Fund	126,801	
NRDC Grants		200,
DST- FIST	8,800,000	
Unnat Bharat Abhiyaan	175,000	
DST- Inspire Scholarship	350,000	
NRFCC BRNS Projects	,	386,
Assam Disaster Management GHY		162,
IGNCA	95,257	480,
IIBM GHY	, j	188,
VLSI Hands on Training		63,
GIAN Course Fee	336,850	329,
GIAN FUND	3,808,000	3,808,
IIT GATE	101,250	109,
MOOC'S Project (Library)	202,200	80,
NRRDA Project		273,
NISE-Solar Energy Awareness Fund	516,163	270,
START UP India	49	375,
West Bengal JEE	23,625	373,
Business Emviroment Law Curriculam	23,023	650,
INSPIRE Internship		030,
	14 500 224	
Total Receipts against sposored Fellowships and Scholarships:	14,590,334	7,531,
Outside Scholarship Payable	2,191,500	12,385,
Doctoral Fellowship (ICSSR)	2,131,300	207,
Total	2,191,500	12,592,

INTEREST RECEIVED FROM EARMARKED FUND:	2 404	100.0
Depreciation Fund Interest on Savings Account	2,491	109,6
Maintenance Fund Interest on Savings Account	47,924	182,9
Staff Dev Fund Interest on Savings Account	73,126	92,9
Gratuity Fund Interest on Savings Account		201,7
Total	123,541	587,2
Interest Earned		
Interest on Saving A/c		
Interest on Fees A/c	43,386	188,
Interest on Scholarship A/c	61,203	96,
Interest on Savings Bank A/c		
Total	104,589	285,4
Interest Others		
Interest on (Auto Sweep) Non Plan	3,195,627	2,969,0
Interest on Auto Sweep A/c (Fee)	3,706,982	
Interest Others		Į
Total	6,902,609	2,969,
Interest Against Project A/c		
Interest on SavingA/c & Auto Sweep (Sponsored projects a/c.)	2,224,972	1,298,
Misc Receipts	26,200	
Total	2,251,172	1,298,
Investment with scheduled banks		
Investment (Nonplan Fees)		
Investment (Plan- Margin Money A/C)	2,537,371	3,200,0
Total	2,537,371	3,200,0
Other Income (Incuding Prior Period Income)		
Income From Land & Building		
License Fee	2,248,037	2,261,
Hire Charges for Shops Canten and Office	2,077,112	1,229,0
Seat Rent/Hostel Room Rent	6,040,750	6,007,0
Guest House Room Rent	1,899,792	1,433,0
Electricity Consumption Receipts	4,701,837	5,679,4
Light & Water (Hostel)	6,040,750	6,007,0
Other Income	, ,	, ,
RTI Fees	712	
Application Fee	1,479,384	81,8
Tender Form Fee	168,300	354,
Institute Overhead on Project	324,225	33 -1 , 1
Misc Receipts	788,802	3,181,8
Institute Overhead on Consultancy	667,231	1,162,9
Lake Fishing Rights	007,231	367,
Total	26,436,932	27,767,
Margin Money for LC		
ivial gill iviolity for LC	7,557,341	1,578,2

OTHER DEPOSITS:		
Accrued Interest on LC Investment	150,977	2,898
Electricity Consumpation Receivable	291,842	393,976
House Rent/Licence Fee Recivable	53,773	28,548
Shops & Canteen Rent Recivable	146,577	23,930
From CDAC		12,027
Receivable from SBI (Sashwata Chakraorty)	14,000	
Grand Total	657,169	461,379
Loans, Advances & Deposits		
Sundry Debtors		
Panorama International	400,000	1,166,736
Godrej & Boyce Mfg Co Ltd		905,000
Advance to Employees		·
HTC Advance	1,466,977	508,585
LTC Advance	2,053,493	1,300,306
Other Advance To Employees		· · · · · · · · · · · · · · · · · · ·
Recoverable Advance	8,986,749	3,409,990
Recoverable Advance (Project)	44,337	373,000
TA Advance	3,961,269	1,514,645
Soft Loan (Staff)	825,588	977,507
Festival Advance	716,986	869,720
Medical Advance	600,000	•
Other Salary Advance	·	1,121,000
Loan to CSAB		358,300
Deposit Work		•
Secured Advance Recovery	41,907,760	94,550,000
Mobilisation Advance		15,000,000
Adv to NCC Ltd	3,948,924	
Adv to Dipak Nath	4,942,000	
Adv to Firm - Gangwal Engg. & Const. Co Pvt Ltd	6,405,000	
Receivable from CSAB against Fee	24,818,657	22,480,000
Receivable from CCMT against Fee	7,040,000	6,440,000
Receivable from CCMT-Others	395,000	
Receivable from CCMN	342,500	
Receivable from CP Fund (Against Pension Contb.)	1,463,027	
Receivable from NIDM	126,087	
Receivable from Consultancy Cell	7,129	
Loan to CSAB	415,275	
Loan to SMDP Project	200,000	
Loan to CCB/CCMT	·	232,850
AIU Workshop		20,000
Loan to TEQIP (Recovery)	450,080	875,000
		<u> </u>
Total	111,516,838	152,102,639

CELLANEOUS RECEIPTS INCLUDING STATUTORY RECEIPTS: Provision -TAX:		
VAT	6 694 662	16 616
	6,684,662	16,616
Vat Project	107,989	72
Income Tax (Against Salary & Contracts)	29,860,116	32,215
Income Tax -Project	33,000	27
Professional Tax	778,060	841
Professional Tax (Project	10,402	34
Service Tax	4 404 472	10
Labour Cess	1,491,473	2,685
GSLI	609,500	680
EPF Subscription MR Employee	1,765,929	1,357
EPF Subscription FW Workers Society	95,281	276
EPF Subscription Contractual Staff	1,313,422	
GPF Advance Recovery	1,404,327	1,667
GPF		250
GPF Subscription (Institute & Other org)	10,896,750	10,906
CPF Subscription	58,727	
NPS Subscription	9,822,356	8,963
Total	64,931,994	76,605
CURRENT LIABILITIES		
OTHER DEPOSITS FROM STUDENTS:		
Hostel Caution Money	2,650,000	7,680
Institute Caution Money	4,005,000	3,950
Sundry Creditors & Others		
CIS Bureaus Services Pvt Ltd	782,168	
M/s Sify Technologies Ltd		3,564
Shree Ganesh Associates	324,130	38
Nurul Hussain Barbhuiya	44,142	20
Niharendu Bhattacharjee	1,317,889	
T.K Das & Co.	2,052,676	
NCC Ltd	33,172,788	24,782
Trishul Security & Services	402,552	,
Gulanur Hussain Choudhury	1,072,697	
M/s New Air Conditioner	5,248	
DHR Holding Pvt Ltd	-, -	19
Panorama International		102
Earnest Money Deposit	3,427,749	1,827
Security Deposit	4,182,136	1,614
SD Project	12,738	56
<u> </u>	149,730	
Load Security from Nielit Guwahati		785
Load Security from Nielit, Guwahati Alumini Association Fee	705 000 1	
Alumini Association Fee	795,000	703
·	795,000 70,472 1,028,309	1,147

Tota	110,717,136	127,850,351
Plan Grant (Axis Bank & Others)	362,737	292,982
Plan Interet on Mobilization Adv		375,205
Plan interest on Auto Sweep	9,959,683	1,386,091
Tezpur University Exam	165,000	
IUSSTF Base Fellowship (Project A/c)	590,500	
ASME Travel Grant (Project A/c)	206,847	
SSC - Exam	505,000	
Unclassified receipts (Project A/c)	20,000	
Unclassified receipts (Institute)	275,697	32,30
Refundable to CCMN	92,500	
Recovery against Trainee Teachers (RD)	220,800	144,50
Self Finance Course (STTP- Applied Fine Element)	55,500	37,00
DST FIST (Adv Mfg for LC Margin Money) (Project A/c)	15,700,000	61,00
Counselling Fee (DASA)		100,00
Ishan Bikash -2016	13,100	
Verification fee	185,500	171,40
RPS Project A/c	2,816,767	222,10
Transcript Fee	773,600	893,70
Student Mediclaim	1,482,661	797,78
Refundable Excess Deposit	386,059	52,579,08
Processing Charges	223,525	474,40
Mess Establishment	5,870,500	5,433,00
Mess Advance	27,000	,/
Mediclaim Insurance	1,684,640	1,646,82
Pension Fund Contribution (Other Org)	90,850	120,75
L.I.C.I Payable	4,494,682	4,747,79
Liability Towards DCRG	410,000	100,00
Mess Dues	33,130	533,40
Leave Encashment Payable (Other Org)	53,496	218,38
Institute Share on Consultancy	31,300	239,41
JEE - Main	31,900	2,540,50
Hostel Management	275,500	2,946,50
Gymkhana	6,209,500	6,203,00
Group Insurance Claim	971,241	1,818,42
DASA	25,000	003,23
CCTV Payable	891,124	883,25
Other Payables (Projects)		5,64
Recovery of Electricity Charges (Project) Recovery of Licence Fee (Project)	28,053 26139	3,09

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR SCHEDULES FORMING PART OF RECEIPTS & PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2018

PAYMENTS:	Amount in	n Rupees
Particulars	Current Year	Previous Year
Establishment Expenses		
Salary Teach & Admin	192,724,822	183,168,150
Salary Class-III	16,568,382	24,947,549
Salary Class-IV	31,434,283	28,208,353
Salary of Cont. Staff (Teach/admin/III/IV)	31,185,664	17,166,067
Salary of MR Staff	17,364,635	10,333,968
Salary of Outsourced Staff	249,284	14,500,250
Bonus	914,992	1,706,880
Professional Dev Allowance	11,409,569	4,349,284
NPS Contribution	9,822,356	8,213,370
CPF Contribution	58,727	
Pension Contribution (Depu)		79,406
EPF Contribution on FFW Workers	307,906	127,047
EPF Contribution on MR Salary	1,880,425	1,381,674
EPF Contribution on Contract Staff Salary	1,142,204	
Mobile & Telephone Bill Reimbursement	280,471	381,413
Death Cum Ret. Gratuity	15,722,465	14,237,567
Pension	55,981,703	48,982,902
Commuted Pension	7,891,657	6,290,214
Leave Encashment	6,663,385	9,283,462
Home Travel Concession	1,794,427	1,717,990
Leave Travel Concession	2,576,499	1,822,599
Medical Reimbursement	2,432,764	1,767,248
Medicine & Dispensary Exp	716,395	850,373
Children Education Allowance	92,253	
Honorarium/Sitting Fees	698,333	329,000
Security Services	21,840,344	18,528,270
House Keeping	22,452,289	8,814,615
Joining Time T.A	2,725	126,788
Relocation Charges (Transportation)	14,160	212,905
1	Total 454,223,119	407,527,344
Academic Expenses		
Lab Consumable	823,615	657,990
Seminer & Conferences	43,998	96,032
Visiting Faculty Remuneration	317,500	206,000
Examination Expenses	2,332,773	2,151,313
Convocation Expenses	2,582,824	2,239,995
Stipend to M.Tech/ Ph.D	107,387,221	94,506,095

Contingency to Phd			1,178,534
Student Project Expenses		133,084	229,333
Library Contingency		190,151	35,620
Internship Exp			65,577
Industry Visit (MBA)			113,812
STIS Project		482,773	590,267
Summer Term Course Exp			690,000
	Total	114,293,939	102,760,568
Administrative Expenses			
Electricity & Power Charges		30,255,418	29,730,203
Water and Electricity Charges to PHE		6,457,831	7,922,965
Postage Exp		330,956	203,758
Internet Expenses		769,274	2,029,845
Telephone Charges		64,793	68,470
Printing and Stationary Exp		983,985	2,165,764
Local Conveyance		4,730	10,740
TA/DA Expenses		1,234,684	2,783,421
Hospitality Exp/Refreshment		265,975	320,485
Audit Fees		668,520	551,900
Professional Fee & Legal Exp		349,392	487,319
Advertisement Expenses		3,313,972	1,090,130
News Paper & Periodicals		16,673	9,328
Training & Placement Expenses		466,558	267,529
Board & Committee Meeting		988,838	2,043,780
Computer Consumable Exp		198,846	271,028
Miscellanous Exp		62,085	164,683
Gyan Sagar Exp		55,841	10,862
Celebration of National Day		904,146	611,048
NCC & NSS Activities		300,011	153,874
Promotion of Rashtriya Bhasha		181,220	121,171
Consumable		302,354	223,669
Academic Audit Expenses		106,200	336,709
Transit House Rent		250,000	250,000
Award & Prizes			155,000
Innovation Lab Exp		9,846	252,458
Other Admin Exp		1,107,245	2,347,404
Registration/Nomination Fee		13,570	50,000
RPC Project Exp			119,462
Junior Engg Staff Salary			337,600
NSDL Service Charges		23,260	
Gymkhana Expenditure		610,090	31,467
NIT Conclave		2,674,802	417,882
	Total	52,971,115	55,539,954

Transportation Expenses			
Vehicle Running Expenses		1,918,720	1,612,055
Insurance Exp- Vehilces		118,167	96,640
·	Total	2,036,887	1,708,695
Repairs and Maintenance Expenses			
Repairs & Maintenace- Building & Others		6,355,543	3,972,895
Maintenance of Furniture & Fixtures		389,977	157,120
Repairs and Maintenace- Tools & Equipments		698,161	1,001,550
Maintenance of Digital Library			174,850
Casual Work & Carriage		20,730	547,016
Gardening & Horticulture			100,000
Repairs & Maintenance- Electricity		1,787,489	2,065,438
Maintenance of D.G Set		3,921,270	3,069,324
Manitenance of Networking		2,926,672	299,941
Repairs & Maintenace of Guest House		298,354	299,700
Book Binding Expenses			
	Total	16,398,196	11,687,834
Finance Cost			
Bank Charges		38,360	22,326
	Total	38,360	22,326
Prior Period Expenses			
	Total	-	-
Other Expenses			
Support to NITS KIDS School		619,651	552,971
Support to Kendriya Vidyalaya		32,557,000	18,964,000
	Total	33,176,651	19,516,971
EARMARKED FUND / ENDOWMENT FUND :			
Corpus Fee		6,000	12,000
Pension fund Contribution			11,717
NMICT Awareness Program Fund		21,565	425,305
Student Aid Fund		6,000	174,089
Employees' Welfare Fund		30,000	
	Total	63,565	623,111
SPONSORED PROJECTS:			
Expenditure against Sponsored Projects			
Capital Expenditure			
Equipment		7,645,914	3,636,132
Computer			348,899
Furniture			55,365
Books		96,611	
Revenue Expenditure		10,125,990	11,190,920
·	Total	17,868,515	15,231,316

FELLOWSHIP / SCHOLARSHIP :			
Outside Scholarship Payable		4,509,927	10,048,931
Doctoral Fellowship (ICSSR)			207,000
	Total	4,509,927	10,255,931
INVESTMENTS & DEPOSITS:			
OUT OF EARMARKED/ENDOWMENT FUNDS;			
	Total	-	-
OUT OF OWN FUNDS;			
Investment- LC Margin Money A/C			3,600,000
	Total	-	3,600,000
EXPENDITURE ON FIXED ASSETS			
Software Developments		944,000	524,201
E-Journals		28,536,416	16,861,558
E-Books		8,772,895	
Patent and Copyright		125,790	83,551
Buildings			
NABL Lab Building		993,504	
Institute Building Renovation		494,988	490,683
Married Scholar Hostels		415,000	
Staff Quarters Type VI		1,657,432	
Girls Hostel No.3		9,097,257	
Staff Quarters (Type A,C,D)			55,061
Staff Quarters Type IV 30 Units			1,855,447
Central School Building & quarters			52,144
Sports Complex & Auditorium			478,837
Roads & Bridges			
Renovation of Internal Road and gate			1,420,044
Campus Development			
Campus Development/Beautifcation			1,956,453
Security Wall			75,015
Sports Field Volley Ball/Tennies			320,717
Plant, Machinery & Equipments			
Audio Visual Equipments		501,710	2,284,801
Electrical Equipments		543,747	957,793
Equipments of Health Centre			1,047,375
Lab Equipments		14,947,458	15,625,401
Gym Equipment			45,000
L T Line & UG Cabeling			1,438,830
Solar Street Lighting			429,000
Furniture Including Hostels		420,350	5,139,922
Office Equipments			1,991,082
Computer Pheriphrals Including Projects		1,319,592	3,543,445
Books		3,255,803	1,102,428
Networking			12,476,354
	Total	72,025,942	70,255,142

),512,811	258,844,615
1,150,000	116,840
9,386,067	
1,040,000	835,819
7,695,411	822,766
,,	6,405,010
7,174,533	-,,-
3,384,671	
3,804,952	
,148,445	267,025,050
1,648,986	15,063,036
107,989	72,398
),855,140	32,397,202
33,000	27,974
738,337	752,862
27,355	17,449
	10,500
L,988,551	2,860,818
,399,358	51,202,239
381,905	106,071
381,905	106,071
400,000	1,248,700
	905,000
1,807,200	802,400
2,431,000	1,423,200
3,916,573	15,539,903
388,000	373,000
5,024,900	1,636,400
L,250,000	250,000
703,000	746,000
100,000	500,000
	1,121,000
	14,000
	798,288
	46,200
_	

Advances & Other Receivable on Capital A/c		
Deposit Work		
Deposit Work-CPWD Swage Disopl. Sytm		6,400,000
Secured Advance	29,756,000	125,150,000
Margin Money for LC against Equipment	12,269,447	2,889,619
Advance to NCC Ltd	14,500,000	
Advance to Dipak Nath	4,942,000	
Advance to Gangwal Engg Co Pvt Ltd	6,405,000	
DST FIST (Adv Mfg for LC Margin Money) (Project A/c)	15,700,000	
Total	114,593,120	159,843,710
<u>Current Liabilities & Provisions</u>		
Hostel Caution Money	8,840,000	2,450,000
Institute Caution Money	2,868,000	1,579,000
Creditors for Goods& Services (Incl.EMD & SD)		
M/s Sify Technologies	2,111,400	
M/s Panorama International	102,127	
M/s Agni Power & Electronics Pvt. Ltd.		544,400
M/s P.T Books International	155,153	
Niharendu Bhattacharjee	1,751,422	
T.K Das & Co.	2,052,676	
M/s Trishul Security & Services Pvt Ltd	402,552	
Gulanur Hussain Choudhury	358,483	
M/s NCC Ltd		16,797,056
Nurul Hussain Barbhuiya	30,692	75,037
Shree Gonesh Associates	159,096	38,000
Earnest Money Deposit	807,445	4,183,358
Security Deposit	17,824,029	1,980,569
GSLI Payable	614,550	733,230
EPF Subscription MR Employees	1,765,844	1,357,341
EPF Subscription FFW Workers' Society	280,782	113,312
EPF Subscription Contract Staff	1,103,958	
GPF Advance Recovery	1,550,260	1,521,942
GPF Payable (Others)	380,000	250,000
GPF Subscription Payable	11,379,850	10,043,100
CPF Subscription Payable	58,727	
NPS Subscription Payable	10,572,136	8,213,370
NRFCC BRNS Projects	386,795	
PMMNT Fund	787,904	230,725
Sashwata Purkayastha Adard Fund	14,000	
Fund from Assam Disaster Management	162,000	
ASME Travel Grant (Project A/c)	206,847	
IUSSTF Base Fellowship (Project A/c)	590,500	
Electricity Recovery (Project A/c)	29,875	
Recovery of Licence Fee (Project)	27416	
Payable to R.G Nair (Project A/c)	5645	

Loan refund to Institute (Project A/c)	200000	
CBSE Fund		49,741
NRDC Fund	199,864	
Business Environment Law Cirriculum Fund	537,169	
IGNICA	575,632	
VSLI Hands on Training	63,000	
IIT Gate Exam	210,325	
Unnat Bharat Abhiyaan	41,613	
INSPIRE		900,370
GIAN Course Fee	312,526	43,000
GIAN Fund	3,674,411	3,808,000
NISE Solar Energy Awareness Fund	525,000	261,163
Manish Roy Memorial Fund		10,000
START UP India	184	441,758
DST Inspire Scholarship	276,064	
Alumini Association Fee	6,000	12,000
CCTV Payable	348,030	486,631
Deposit Remittance	851,998	321,330
Deposit Remittance (Project A/c)	114,781	
Group Insurance Claim	1,380,364	1,569,260
Gymkhana	3,900,415	296,605
Hostel Management	3,262,000	2,889,000
Hostel Welfare	224,510	
Liability Towards DCRG	150,000	50,000
L.I.C.I Payable	4,886,634	4,353,618
Mediclaim Insurance	1,760,004	1,695,532
Mess Advance	26,000	
Mess Dues	26,000	403,183
Mess Establishment	3,495,603	1,899,842
Processing Charges	38,000	407,500
Refundable Excess Deposit	4,941,244	52,417,413
Student Mediclaim	1,288,191	608,373
Transcript Fee	852,900	660,700
Pension Payable	2,099,858	
Advertisement Exp Payable	94,944	
DG Set Maintenance Payable	364,170	
Gardening & Horticulture Exp Payable	96,403	
Repairs & Maintenane Electricity Payable	177,480	
Repairs & Maintenane Build & Others Payable	487,563	
Repairs & Maintenane Tools & Equip. Payable	418,656	
Water & Electricity Charges to PHE Payable	751,542	
RPS Project A/c	2,816,767	
NPS Contribution Payable	749,780	
Administrative Exp Payable	34,457	
Celebration of National Day Exp Payable	511,190	
HTC/LTC Exp Payable	42,710	
Medical Reimbursment Exp Payable	811,308	
medical neimodisment Exp r dyable	311,300	

Printing & Stationery Exp Payable	31,549	
Refreshment Exp Payable	2,256	
STIS Project Exp Payable	159,739	
Ishan Bikash-2016 Payable	13,100	
CPDA Exp Payable	161,339	
Digital Library Exp Payable	199,025	
E-Journal Subscriton Exp Payable	1,165,097	
Guest House Maint. Exp Payable	14,053	
Payable to Lalu Seban	39,888	
SSC Exam Exp Payable	505,000	
Tezpur University Exam Exp Payable	165,000	
Children Education Allowance Payable	1,758,233	1,768,513
Electricity & Power Charges Payable	2,562,115	2,492,528
Contractual Staff Salary Payable	3,000,535	3,606,892
MR Staff Salary Payable	959,072	978,752
Security Service Charges Payable	1,740,025	1,688,581
Stipend to M.Tech/ Ph.D Payable	9,440,399	9,189,467
Support to NITS KIDS Staff Payable	49,432	50,400
Telephone Charges payable	616,445	575,672
Vehicle Repair Expenses Payable	467,683	129,181
Unclassified Receipts	17,000	28,642
EPF Contb MR Staff Payable	128,117	130,852
House Keeping Charges Payable	1,448,246	1,045,015
PhD Contingency Payable		54,536
Self Finance Course		37,000
Provision Plan Others		2,377,615
Consultancy Cell CE Department		15,917
Verification Fee	327,700	1,000
Prepaid E-Journals	19,695,197	
Prepaid Insurance	798,621	
Other Receivable		
Receivable from Startup India Project	1,484,119	
Receivable from CCMN	342,500	
Receivable from CCMT	195,000	
Loan to CSAB	415,275	358,300
Receivable from CCMT against Fee	7,040,000	6,440,000
Receivable CSAB	13,555,000	17,080,000
Loan Solar RTC Project	37,000	354,395
Loan to TEQIP	541,794	885,972
TDS Receivable (I Tax) including Project	81,155	358,462
Loan to SMDP Project		200,000
IIT GHY Project Adv (Project A/c)	212,000	
Tot	tal 180,374,163	173,543,151

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR GPF and NPS ACCOUNT BALANCE SHEET AS AT MARCH 31, 2018

				(A
LIABILITIES	Current Year	Previous Year	ASSETS	Current Year
CAPITAL FUND (GPF):			INVESTMENT:	
Opening Balance	284,663,312	276,117,142	276,117,142 Investment with Bank	236,713,14:
Less: Final Payment	27,951,499	15,917,817	15,917,817 Interest accrued on FD	32,229,56;
Less: Fund towards Penion Fund transferred	23,358,451	8,156,843		
Balance	233,353,362	252,042,482	252,042,482 CURRENT ASSETS:	
Add: GPF Subscription	10,516,750	10,727,597	10,727,597 Advance to Subscriber	3,995,660
Add: GPF Subscription (Other Org)	445,000	260,000	260,000 Receivable from Institute (NPS Sub & Contr)	1
Add: Excess payment recovered	1	11,717	11,717 Receivable from Institute against GPF Subs.	1
Add: Excess of Income Over Exp	16,195,859	21,621,516	21,621,516 TDS receivable	398,866
Capital Fund	260,510,970	284,663,312	284,663,312 GPF Advance receivable from Institute	1
CURRENT LIABILITIES & PROVISIONS:				
Pension Fund Contribution Payable (2017-18)	18,850,882			
Total	279,361,852			
NPS Account:			CASH AT BANK	7,052,80!
Opening Balance	2,221,976	2,792,996		
Add: Subscription & Contribution (Received)	19,644,712	17,926,300		
Add: Subscription & Contribution (Other Org)	1	113,156		
Less: Paid during the year (NSDL)	20,838,506	18,610,476		
Total (Payable to NSDL)	1,028,182	2,221,976		
Grand Total	280,390,034	286,885,288	Grand Total	280,390,03

Registrar NIT Silchar

Date: 18th June, 2018 Place: Silchar

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED MARCH 31, 2018 GPF & NPS ACCOUNT

				Α)
EXPENDITURE	Current Year	Current Year Previous Year	INCOME	Current Year
Bank Commission	266	1	1 Interest Received on FD	433,741
Excess of Income over Expenditure	16,195,859	21,621,516	21,621,516 Interest Accrued on Investment	15,411,216
			Interest received on Savings Account	23,139
			Interest Received against Autosweep	328,028
Total	16,196,124	21,621,517	Total	16,196,124

Date: 18th June, 2018 Place: Silchar

Registrar NIT Silchar

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

RECEIPTS AND PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2018 GPF & NPS ACCOUNTS

			(Amount in Rupees)	ibees)
RECEIPTS	Current Year	Previous Year	PAYMENTS	Current Year
Opening Balance: (As on 01.04.2017)				
Cash at Bank	15,740,149	29,200,049	29,200,049 ACCUMULATED FUND:	
ACCUMULATED FUND:			GPF Adv./Withdrawal	
GPF Subscription	10,516,750	9,783,100	9,783,100 GPF Withdrawal	
GPF Subscription Received (Other Org)	445,000	260,000	260,000 Adavce to Subscriber	776,000
GPF Subscription payable	1	ı	Pension Fund Contrb. Paid	4,507,569
Leave salary payable from other Organisation	1	1	GPF Subscription	1
Pension Fund Contrb. Other Org	1	1	Final payment	28,295,499
GPF Advance recovery	1,649,327	1,524,348	1,524,348 Leave salary other Organisation transferred	
NPS Subscription (Institute)	9,822,356	8,213,370	Acculated Capital Fund	
NPS Contribution (Institute)	9,822,356	8,213,370	NPS Subscription (Institute)	10,419,253
NPS Subscription (Other Org)	1	56,578	56,578 NPS Contribution (Institute)	10,419,253
NPS Contribution (Other Org)	1	56,578	NPS Subscription (Other Org)	1
GPF Subscription recovery	384,000		NPS Contribution (Other Org)	1
Pension Fund Contrb. Refunded	ı	11,717	11,717 TDS Receivable	
GPF Subscription Receivable (2016-17)	868,247	1	Deposit Remittence	1,463,027
NPS Contribution Receivable (2016-17)	749,780	1	INVESTEMENT	1
NPS Subscription Receivable (2016-17)	749,780	1	Investment during the year	
GPF Advance Receivable (2016-17)	135,186	ı	EXPENSES	
Accumulated Capital Fund		1	Bank Charges	266
INVESTMENT			Unclassified Receipts (Transferred):	•
Investment Matured	9,000,000	1		
Accrued Interest Received (Maturity)	802,806	1		
INTEREST			Closing Balance:	
Interest Received against FD	433,741	1	Cash at Bank	7,052,805
Interest Received against Autosweep	328,028	1,787,913		
Interest on SB A/c	23,139	942,287		
CURRENT LIABILITY				
Deposit Remittance	1,463,027			
Total	62,933,672	60,049,310	Total	62,933,672

Date: 18th June, 2018 Place: Silchar

Registrar NIT Silchar

Schedule of Investment & Interest accrued of G P Fund upto 31.03.2018 NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

Re 7	7	7		6	6	6	6		4	4	4	4	4	4	4	4	4	4	4	4	1	6	6	7	2	4	1		0	∞	9	9		.2
Net accrued Int. upto 31.03.18	1,064,307	1,064,307	673,620	1,511,589	1,511,589	1,511,589	1,511,589	•	1,336,904	1,336,904	1,336,904	1,336,904	1,336,904	1,336,904	1,336,904	1,336,904	1,336,904	1,336,904	1,336,904	1,336,904	451,061	25,969	4,499	621,527	616,125	612,544	607,321	663,517	340,880	24,328	1,516,276	1,516,276	337,801	32.229.562
TDS Receivable 2017-18	-		-		-	-	-		-			-	٠	٠		-	-	-	-	-	-	2,549	17	58,819	58,633	58,447	58,075		32,884	2,549				271.973
Accrued Int. Recd duing 17-18	-		-	-	-	-	-	802,806	-		•	-				-	-	-	-	-	-													802,806
Accrued intt. Earned during 17-18	454,335	454,335	308,029	689,008	689,008	800'689	689,008	-	534,098	534,098	534,098	534,098	534,098	534,098	534,098	534,098	534,098	534,098	534,098	534,098	183,459	25,494	2,437	588,190	586,332	584,472	580,754	580,754	328,839	25,487	694,008	694,008	155,075	15,411,216
Interest Recvd 2017- 18								433,741																										433,741
Accrued Int. earned upto 2016-17	609,972	609,972	365,591	822,581	822,581	822,581	822,581	802,806	802,806	802,806	802,806	802,806	802,806	802,806	802,806	802,806	802,806	802,806	802,806	802,806	267,602	3,024	2,079	92,156	88,426	86,519	84,642	82,763	44,925	1,390	822,268	822,268	182,726	17,893,125
Face Value as on 31/03/2018	5,670,366	5,670,366	4,000,000	9,000,000	9,000,000	9,000,000	9,000,000	•	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	3,000,000	407,652	32,151	9,645,663	9,645,683	9,645,693	9,645,703	9,645,713	5,358,736	345,415	9,000,000	9,000,000	2,000,000	236,713,141
Matured during the year 17-18			-		-	-		9,000,000	•		•	•				-		•	-	-	-	-		-		•	-	-		1	-	-		000'000'6
Addition during 17-18			-	-	-	-	-	-	-		•	-	-		-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	•	
Face Value as on 31/03/2017	5,670,366	5,670,366	4,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	3,000,000	407,652	32,151	9,645,663	9,645,683	9,645,693	9,645,703	9,645,713	5,358,736	345,415	9,000,000	9,000,000	2,000,000	245,713,141
Dated	11/24/2015	11/24/2015	4/2/2016	4/2/2016	4/2/2016	4/2/2016	4/2/2016	4/2/2016	4/2/2016	4/2/2016	4/2/2016	4/2/2016	4/2/2016	4/2/2016	4/2/2016	4/2/2016	4/2/2016	4/2/2016	4/2/2016	4/2/2016	4/2/2016	2/18/2017	25/04/2016	06.02.2017	08.02.2017	09.02.2017	10.02.2017	11.02.2017	12.02.2017	10.03.2017	6/2/2016	6/2/2016	6/2/2016	
Fixed Deposit/Bond Account No	0293106000022385	0293106000022394	0293106000023694	0293106000023700	0293106000023719	0293106000023728	0293106000023737	800603311004617	800603311004619	800603311004616	800603311004618	800603311004614	800603311004615	800603311004612	800603311004613	800603311004610	800603311004611	800603311004622	800603311004620	800603311004621	800603311004609	3050401001158/10	3050401001509/2	3050401001691/7	3050401001691/8	3050401001691/9	3050401001691/10	3050401001691/11	3050401001691/12	3050401001836/1	20130310035245	20130310035252	20130310035269	Total Rs.
Name of Bank	IDBI	Vijaya Bank	Canara Bank	Canara Bank	Canara Bank	Canara Bank	Canara Bank	Canara Bank	Canara Bank	Canara Bank	Canara Bank	UCO Bank	UCO Bank	UCO Bank																				
<u></u>	_	7	3	4	2	9	7	8	6	9	=	12	13	14	15	16	17	18	19	20	21	22	23	24	52	56	27	28	53	99	31	32	တ္တ	

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME [TEQIP PHASE- II] BALANCE SHEET AS AT 31ST MARCH, 2018

(Amount in Rs.)

		1	ı	(Amount in Ks.)
S.	PARICULARS	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR Rs
No.	.,	No.	Rs	
Α	SOURCE OF FUNDS:			
	Opening Balance:		190,000,000	150,000,000
	1) Amount received from: Govt of India		-	25,000,000
	2) Received from Govt.of India under Modernisation		-	15,000,000
	3) Contribution from:			-
	3) Less: Excess of Expenditure over income:			
	As per last Account Rs.8,60,58,887.56			
	Add during the year Rs. 78,76,655.00		93,935,543	86,058,888
	TOTAL		96,064,457	103,941,112
В	APPLICATION OF FUNDS			
	1) Fixed Assets		96,064,457	93,165,801
	2) Investment	İ	50,004,457	55,105,801
	2) Work in progress - Scheme work under implement	"	_	_
	TOTAL		96,064,457	93,165,801
	3) A. Current Assets, Loans and Advances		30,004,437	33,103,001
	a) Cash Balance	l III		
	b) Bank Balance	""	_	5,254,369
	c) Advance for Capital Goods	IV		-
	d) Loans and Advances	V	_	5,549,273
	TOTAL (A)	"	_	10,803,642
	B. Less: Curent Liabilities			10,000,042
	Earnest Money Deposit Etc	VI	_	28,331
	Net Current Assets (A - B)			10,775,311
	TOTAL		96,064,457	103,941,112
	IUIAL		30,004,437	103,341,112

Place: Silchar Registrar Director
Date: 18th June, 2018 NIT Silchar NIT Silchar

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME [TEQIP PHASE- II] NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2018

				(A_1)
	EXPENDITURE			INCOME
Previous Year	Particulars	Amount Rs.	Previous Year	Particulars
	Incremental Operating Cost			
1,361,492	1,361,492 (a) Operation & Maintenance	366,770	1,109,539	1,109,539 Interest earned
10,233	10,233 (b) Consumables	ı	1	Other income
ı	(c) Salary	ı		
460,667	460,667 Industry Institute Interaction	352,041		
924,615	924,615 Teaching & Research Assistantship	705,420	5,062,570	5,062,570 Excess of Expenditure over Income
1,602,770	1,602,770 Faculty & staff Development	5,464,610		
54,485	54,485 Research & Development	987,282		
145,821	145,821 Acedemic Support for weak students	ı		
220,976	220,976 Institutional Mgt. Capacity Enhancement	ı		
1,391,050	1,391,050 Institutional Reforms	ı		
ı	Other Payments (Corpus)	46,582		
6,172,109	Total Rs.	7,922,705	6,172,109	Total Rs.

Date: 18th June, 2018 Place: Silchar

Registrar NIT Silchar

SCHEDULE - I

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME - PHASE-II [TEQIP-II] SCHEDULE FOR FIXED ASSETS as on 31st March, 2018 NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

S	Sl Particulars	Gross Balance as on 01/04/2017	Gross Balance as on Addition during the Deletion during Gross 01/04/2017 year 31	Deletion during the year	Gross 31
1	Equipment	70,071,027	1,680,000		
7	2 Equipment: under Modernisation	13,836,147	1,218,656		
3	3 Furniture	-	-	-	
4	4 Books, LRs & Software	9,258,627	-	-	
2	5 Minor Works	-	-	-	
	Total	93,165,801	2,898,656	-	

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME [TEQIP PHASE-II] Schedules forming part of Balance Sheet as at 31st March, 2018

(Amount in Rs.)

Current Assets: Investment	Schedule II	Current Year	Previous year
STDR		-	-
Total		-	-

Current Assets, Loans and Advances:	Schedule III	Current Year	Previous year
Cash in Hand		-	-
Cash at Bank (SBI, NIT Branch)		-	5,254,369
Total		-	5,254,369

Advance for Capital Goods	Schedule IV	Current Year	Previous year
		-	-
Total		-	-

Loans and Advances:	Schedule V	Current Year	Previous year
T A Advance		-	-
Advance to Firm		-	-
Advances		-	5,549,273
Total		-	5,549,273

Current Liabilities :	Schedule VI	Current Year	Previous year
EARNEST MONEY DEPOSIT:			
Zephyer Enterprise (India)		-	25,045
Deposit Remittance (Uncashed/Stale		-	3,286
TOTAL	-	-	28,331

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME [TEQIP PHASE - II] NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDED ON 31ST MARCH, 2018

Previous Year	RECEIPT	Current Year	Previous Year	PAYMENT
	Opening Balance:		21,808,328	Equipment
1	i) Cash in Hand	ı	13,836,147	13,836,147 Modernisation: Equipment
11,510,687	11,510,687 ii) Cash at Bank	5,254,369	ı	Books & LRs & Software
				<u>Investment:</u>
			1	Investment
	Grants-in-Aid:		1	Loan from Institute
25,000,000	25,000,000 Received from Govt. of India	ı		<u>Indirect Expenditure:</u>
15,000,000	Received from Gol: Modernisation	ı		Incremental Operating Cost:
	Investment:		1,361,492	(a) Operation & Maintenance
1	Investment	ı	10,233	(b) Consumables
			1	(c) Salary
	Other Receipts:		460,667	Industry Institute Interaction
1,109,539	1,109,539 Interest Earned	46,050	924,615	Teaching & Research Assistanceship
ı	Accrued Interest on Investment	ı	1,602,770	Faculty & staff Development
			54,485	Research & Development
	Other Receipt :		145,821	Acedemic Support for weak students
226,960	226,960 T A Advance	1	220,976	Institutional Management Capacity
1	Advance to Firm	1	1,391,050	Institutional Reforms
1,702,727	1,702,727 Advances (for workshop etc)	5,549,273		
843,790 VAT	VAT	8,251		Other Payments:
350,206	Income Tax	12,634	226,960	T A Advance
908,750	Earnest Money Deposit	1	7,252,000	Advances (for workshop etc)
ı	Deposit remittence	322	843,790	VAT
34,200	34,200 Other Misc. Receipt	ı	350,206	Income Tax
			908,750	Earnest Money
			•	Deposit remittence
			34,200	Other Misc. Payments(Corpus)
				Closing balance:
			1	Cash in hand
			5,254,369	Cash at Bank (SBI, NIT Br)
56,686,859	TOTAL Rs.	10,870,899	56,686,859	TOTAL Rs.

Date: 18th June, 2018 Place: Silchar

Registrar NIT Silchar

Technical Education Quality Improvement Programme of Government of India (EAP), under TEQIP-III Consolidation of Sub-Component 1.1,1.2,1.3 and Component 2 NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

Month/Quarter/Year: September/Q2/2017-2018

Sub - Component	Total Funds	Cumulative Exp.		Total Cumulative	Total Cumulative	Payments	Total
	anocated /Project Life Allocation (PLA) in O2	since Inception till 17-06-2018	Exp. in September	Exp. Upto September in quarter Q2	Exp. Upto September in Fin Year 2018	Under processing in September	Advance in September
	А	В	C	D	Е	F	ŋ
1.3.1.1 - Equipments	-	-	,	1	1	•	-
1.3.1.2 - Learning resources	-	-	-	-	-	•	-
1.3.1.3 - Furniture	-	-	,	-	-	-	-
1.3.1.4 - Minor civil works	1	1	•	1	٠	٠	'
1.3.2.1 - Improve students learning	100,000	341,288	-	•	3,360	-	-
1.3.2.10 - Services	1	1	,	1	,	,	,
1.3.2.11 - Industry-Institute Interaction	200,000	440,969	-	-	45,654	-	-
1.3.2.2 - Assistantships	500,000	-	-	1	1	-	-
1.3.2.3 - Graduates employability	300,000	-		1	1	•	-
1.3.2.4 - Faculty/staff development and motivation	400,000	1,122,160	•	1	458,210	•	'
1.3.2.5 - Research and development	400,000	2,020,753	,	-	1,020,800	-	-
1.3.2.6 - MOOCs and digital learning	100,000	-	-	1	1	-	-
1.3.2.7 - Mentoring/Twinning system	200,000	83,195	-	•	83,195	•	'
1.3.2.8 - Reforms and governance	1,000,000	172,722	'	•	166,564	•	'
1.3.2.9 - Management capacity development	-	-	-	-	1	•	'
1.3.3.1 - Consumables	100,000	10,095	-	-	10,095	•	'
1.3.3.2 - Operation & maintenance of equipments	50,000	1	,	1	,	1	'
1.3.3.3 - Office expenses	115,000	219,580	,	1	219,580	,	ı
1.3.3.4 - Meetings	20,000	528,674	,	1	521,074	•	1
1.3.3.5 - Hiring of vehicles	20,000	1	1	-	1	,	1
1.3.3.6 - Travel cost	120,000	258,299	1	1	258,299	,	'
1.3.3.7 - Salary	120,000	-	1	-	-	-	-
Total (A):	3,745,000	5,197,735	,	'	2,786,831	1	1

of Technology Silchar | 285

Month/Quarter/Year : December/Q3/2017-2018

Technical Education Quality Improvement Programme of Government of India (EAP), under TEQIP-III Consolidation of Sub-Component 1.1,1.2,1.3 and Component 2

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

	ı						
Sub - Component	Total Funds allocated /Project Life Allocation (PLA)	Cumulative Exp. since Inception till 17-06-2018	Exp. in December	Total Cumulative Total Cumulative Exp. Upto Exp. Upto December in Pin Year 2018	Total Cumulative Exp. Upto December in Fin Year 2018	Payments Under processing in December	Total Advance in December
	V	8	U	٥	В	L	g
1.3.1.1 - Equipments	6,500,000	٠		٠			'
1.3.1.2 - Learning resources	2,000,000	٠		1	٠	٠	'
1.3.1.3 - Furniture	•	•	-	-		-	•
1.3.1.4 - Minor civil works	ı	ı	•	1	1	1	'
1.3.2.1 - Improve students learning	1,050,000	341,288	-	-	3,360	-	1
1.3.2.10 - Services	ı	ı	•	1	1	1	'
1.3.2.11 - Industry-Institute Interaction	700,000	440,969	-	-	45,654	-	•
1.3.2.2 - Assistantships	500,000	ı	•	1	1	1	'
1.3.2.3 - Graduates employability	700,000	-	-	-	-	-	•
1.3.2.4 - Faculty/staff development and motivation	750,000	1,122,160	-	-	458,210	-	1
1.3.2.5 - Research and development	1,100,000	2,020,753	65,527	348,238	1,020,800	-	'
1.3.2.6 - MOOCs and digital learning	750,000	-	-	-	-	-	'
1.3.2.7 - Mentoring/Twinning system	200,000	83,195	-	-	83,195	-	'
1.3.2.8 - Reforms and governance	1,300,000	172,722	117,182	117,182	166,564	1	'
1.3.2.9 - Management capacity development	ı	ı	-	-	-	1	1
1.3.3.1 - Consumables	100,000	10,095	10,095	10,095	10,095	1	'
1.3.3.2 - Operation & maintenance of equipments	50,000	ı	-	-	-	1	1
1.3.3.3 - Office expenses	80,000	219,580	219,000	219,580	219,580	1	1
1.3.3.4 - Meetings	820,000	528,674	521,074	521,074	521,074	1	'
1.3.3.5 - Hiring of vehicles	20,000	1	-	-	-	1	'
1.3.3.6 - Travel cost	120,000	258,299	130,204	169,246	258,299	1	1
1.3.3.7 - Salary	120,000	1	•	-		1	'
Total (B):	19,860,000	5,197,735	1,063,082	1,385,415	2,786,831	-	'

Technical Education Quality Improvement Programme of Government of India (EAP), under TEQIP-III Consolidation of Sub-Component 1.1,1.2,1.3 and Component 2 NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

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March
/Year:
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MOTITE Seat CET 1 CET : IVISI CIT ST 2017 2018							
Sub - Component	Total Funds allocated /Project Life Allocation (PLA)	Cumulative Exp. since Inception till 17-06-2018	Exp. in March		Total Cumulative Total Cumulative Exp. Upto March Exp. Upto March in quarter Q4 in Fin Year 2018	Payments Under processing in March	Total Advance in March
	A	В	C	D	Е	н	9
1.3.1.1 - Equipments	650,000	-	-	-	-	-	-
1.3.1.2 - Learning resources	2,600,000	-	-	-	-	•	-
1.3.1.3 - Furniture	-	-	-	ı	-	•	-
1.3.1.4 - Minor civil works	-	1	-	-	-	•	-
1.3.2.1 - Improve students learning	422,500	341,288	-	3,360	3,360	3,045	-
1.3.2.10 - Services	130,000	-	-	-	-	•	-
1.3.2.11 - Industry-Institute Interaction	800,000	440,969	-	45,654	45,654	•	200,000
1.3.2.2 - Assistantships	-	-	-	-	-	•	-
1.3.2.3 - Graduates employability	975,000	-	-	1	-	•	-
1.3.2.4 - Faculty/staff development and motivation	1,300,000	1,122,160	392,716	458,210	458,210	•	140,000
1.3.2.5 - Research and development	2,700,000	2,020,753	274,357	672,562	1,020,800	8,466	-
1.3.2.6 - MOOCs and digital learning	-	-	-	-	-	•	-
1.3.2.7 - Mentoring/Twinning system	130,000	83,195	41,210	83,195	83,195	•	-
1.3.2.8 - Reforms and governance	195,000	172,722	49,382	49,382	166,564	•	-
1.3.2.9 - Management capacity development	195,000	-	-	-	-	•	-
1.3.3.1 - Consumables	32,500	10,095	•	-	10,095	•	-
1.3.3.2 - Operation & maintenance of equipments	32,500	1	1	-	1	,	1
1.3.3.3 - Office expenses	78,000	219,580	,	-	219,580	,	-
1.3.3.4 - Meetings	100,000	528,674	•	-	521,074	•	-
1.3.3.5 - Hiring of vehicles	19,500	1	1	-	1	,	-
1.3.3.6 - Travel cost	195,000	258,299	,	89,053	258,299	•	'
1.3.3.7 - Salary	117,000	ı	ı	1	1	ı	1
Total (C):	10,672,000	5,197,735	757,665	1,401,416	2,786,831	11,511	340,000
Grand Total (A+B+C)	34,277,000	15,593,205	1,820,747	2,786,831	8,360,493	11,511	340,000
2-1-1 Ciri-1-1							

Dated, Silchar The 18th June 2018

Nodal Officer (Finance)

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

SIGNIFICANT ACCOUNTING POLICIES SCHEDULE: 23

1. BASIS FOR PREPARATION OF ACCOUNTS

The financial statements are prepared under the Historical cost convention and on the basis of Generally Accepted Accounting Principles in India. Institute's accounts are maintained on accrual system of accounting in terms of the New System.

2. REVENUE RECOGNITION

2.

Computer Software

- 2.1 Fees from students (except Tuition Fees), Sale of admission Forms, Interest on Savings Bank account are accounted on cash basis. Tuition Fees collected separately for each semester is accounted on accrual basis.
- 2.2 Income from Land, Buildings & other Property and Interest on Investments are accounted on accrual basis.
- 2.3 Interest on interest bearing advances staff for Soft Loan is accounted on actual basis every year.

3. FIXED ASSETS AND DEPRECIATION

- 3.1 Fixed assets are stated at cost of acquisition including inward freight, duties and taxes and incidental and direct expenses related to acquisition and commissioning.
- 3.2 Depreciation on Fixed assets is provided on written down value method as followed in earlier years, at the rates mentioned below. As regard to Govt. of India guidelines for providing depreciation on straight line method, the same could not be given effect during 2017-18 also, due to the fact that, change in method and rate of depreciation on the assets procured prior to 2014-15 will attracts complicacy.

15%

Tang	gible Assets	Rate of Depreciation
1.	Land	0%
2.	Site Development	5%
3.	Buildings	5%
4.	Roads & Bridges	5%
5.	Tube wells & Water Supply	5%
6.	Electrical Installation and equipment	15%
7.	Plant & Machinery	15%
8.	Scientific & Laboratory Equipment	15%
9.	Office Equipment	15%
10.	Audio Visual Equipment	15%
11.	Computers & peripherals	30%
12.	Furniture, Fixtures & Fittings	10%
13.	Vehicles	20%
14.	Lib. Books & Scientific journals	30%
Intar	ngible Assets (amortization):	
1.	E-Journals	100%

- 3.3 Depreciation is worked out 100% on the opening balance and proportionately on additions during the year. The amount of depreciation has been adjusted with the Capital Fund account and simultaneously shown under "Other Income" in the Income & Expenditure A/c.
- 3.4 Assets created out of Sponsored Projects funds, are setup by credit to Current Liabilities (Schedule No. 3.A), with separate entity and merged with the Fixed Assets of the Institution. Depreciation is charged at the rates applicable to the respective assets.
- 3.5 Electronic Journals (E-journals) are separated from Library Books in view of the limited benefit that could be derived from the on-line access provided. E-journals are not in a tangible form, but temporarily capitalized in view of the magnitude of expenditure and the benefit derived in terms of perpetual knowledge of academic and Research Scholars, Depreciation is provided in respect of E-journals at a higher rate of 100% as against depreciation of 30% provided in respect of Library Books, since the access is permitted for a specific period only.
- 4. **STOCKS:** Expenditure on purchase of chemicals, glassware, publications other stores as revenue expenditure, they are valued at cost.

5. **RETIREMENT BENEFITS**

Retirement benefits of employees appointed prior to the year 2004 are entitled to pension and terminal benefits such as Gratuity, commuted value of pension, Leave encashment etc., are shown at actual as per provisions made by the Institute in annual Budget as Grants in Aid and provided for as per orders of the Govt. of India and paid as per schemes as applicable from time to time. Employees appointed after 2004 are governed by the New Pension Scheme to whom on a monthly basis matching employers contribution is paid from the salary grants provided under Non-plan Grant duly budgeted. Value of pension and gratuity received from previous employers of the Institution's employees, who have been absorbed in the Institution, is credited to the respective Provision Accounts.

6. **INVESTMENT**

Institute has invested temporary surplus in Multi Option Deposit Scheme and Term Deposits with banks. Investments are stated at cost. A schedule showing details of Investments of various funds annexed with the statement of accounts.

7. Earmarked/ Endowment Funds.

The following long term funds are earmarked for specific purpose. Most of the funds have separate bank account. Those with large balances also have investments in term deposits with Banks. The income from Investment/advances, interest on savings Bank Accounts are credited to the respective Funds. The expenditure and advances are debited to the fund. The balance in the respective funds is carried forward and is represented on the assets side by the balance at Bank, Investments and accrued interest.

7.1 CORPUS FUND is created in compliance with Govt. of India, MHRD, Department of Higher Education, New Delhi vide letter no. F.21-7/2006-TS.III dated 31.03.2006. This fund is in the nature of Endowment Fund. Income from the investments of the fund is added to the fund. The balance in the Corpus Fund which is carried forward is represented by the balance in a separate bank Account, investment in Fixed deposits with the Bank and Accrued interest on investments. Surplus of Institute Revenue Generation is transferred to Corpus fund account and this fund is administered as per guidelines of the BOG.

8. **GOVERNEMENT GRANTS**

- 8.1 Government Grants are accounted on accrual basis (as per date of sanction letters).
- 8.2 To the extent utilized towards capital expenditure, (on accrual basis) government grants are transferred to the Capital fund.
- 8.3 Government Grants for meeting revenue Expenditure (on accrual basis) are treated utilized and simultaneously transferred to Income & Expenditure a/c as Income from Grants and Subsidies.
- 8.4 Unutilized grants including advances paid out of such grants are carried forward and exhibited as liability in the Balance Sheet.

9. <u>INVESTMENTS OF EARMARKED FUNDS AND INTEREST INCOME ACCRUED ON SUCH INVETSMENTS:</u>

To the extent not immediately required for the expenditure, the amounts available against such funds are invested in fixed term deposits with Banks, leaving the balance in savings Bank Accounts.

Interest received, interest accrued due and interest accrued but not due on such investments are added to the respective funds as income of the institution.

10. SPONSORED PROJECTS

In respect of ongoing Sponsored Projects, the amount received from sponsors is credited to the head "Current Liabilities and Provisions- Current Liabilities-Other Liabilities-Receipt against ongoing sponsored projects". As and when expenditure is incurred/ advances are paid against such projects, or the concerned project account is debited with allocated overhead charges, the liability account is debited.

	debited.	······································	900, 1110 1100 1111,	
l1.	The Institution itself also awards Scholarships to M.Tech./ accounted as academic expenses.	M.Sc. & P	h.D. scholars,	which are
	Registrar		Director	

SCHEDULE: 24 CONTINGENT LIABILITIES AND NOTE TO ACCOUNTS (ILLUSTRATIVE)

- 1. **CONTINGENT LIABILITIES:**There is no contingent liability during the year under report.
- 2. **CAPITAL COMMITMENTS:**The value of the ongoing contract works remaining to be executed on Capital account and not provided for amounted to Rs.1764.00lacs as on 31.03.18.

3. FIXED ASSETS:

- 3.1 Addition in the year to Fixed Assets in Schedule 4 includes Assets purchased out of Plan Funds Rs.2876.78 Lakh. The assets have been set up by credit to Capital Fund.
- 3.2 In the Balance Sheet as on 31.03.18 and the Balance Sheets of earlier years, fixed assets created out of Plan funds were exhibited distinctly. The additions during the years, from plan and other funds, and the depreciation on those additions respectively have been exhibited in the Sub Schedules A,B,C,D& E to the main schedules of Fixed Assets (Schedules 4).

4. CURRENT ASSETS, LOANS, ADVANCES AND DEPOSITS

In the opinion of the management, the current assets, Loans, Advances and Deposits have a value on realization in the ordinary course, equal to at least the aggregate amount shown in the Balance Sheet.

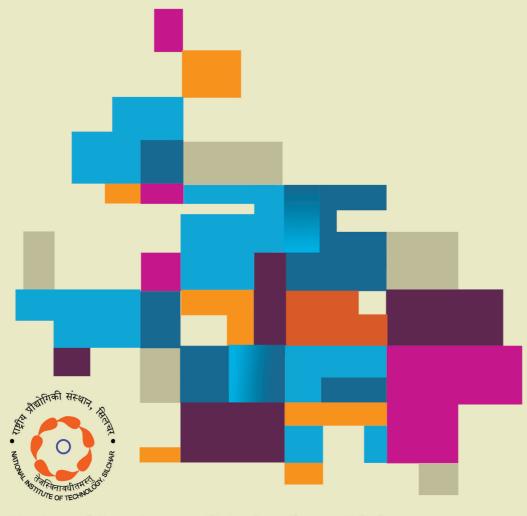
- 5. The details of the Balances in the Savings Bank accounts, Current accounts with Banks are depicted in Schedule 7A of Schedule of Current assets. The details of Investment with banks against various funds are annexed separately in page no. 17 & 18 of the Annual Accounts.
- 6. Figures in the Final accounts have been rounded off to the nearest rupee.
- 7. Schedules 1 to 22 are annexed to and form an integral part of Balance Sheet at 31st March 2018, and the Income & Expenditure account for the year ended on that date.
- 8. Provident fund accounts and the New Pension Scheme account are separated from the Institute Accounts. A Receipt & Payments Account, an Income & expenditure Account and a balance sheet of the Provident fund Accounts as well as the New Pension Schemes for the year 2017-18 have been attached with the Institute accounts. The balance held in New Pension Scheme in the Institution in respect of 3 members amounting to Rs.10.28 lakhare yet to be transferred to NSDL due to non-allotment of PRA number till date.
- 9. Pension Fund Contribution(Schedule-2): During the year a total amount of Rs.233.58 Lacs has been appropriated as income from the Pension Fund Contribution and the same has been stated as revenue expenditure against the Pension Fund (Endowment Fund).
- 10. Fixed Assets (Schedule-4): Addition of fixed assets during the year amounting to Rs.12490.60 Lac includes Rs.8651.92 Lac being adjustment of WIP and Rs.960.64 lakhs against TEQIP-II. Expenditure incurred against Patent from IRG amounting Rs. 1.26 Lac also taken into account. Thus total capital expenditure of Rs.2876.78 Lac booked as capital expenditure from Plan Grant (OH-35) only.
- 11. A statement showing the details of investment and interest accrued is annexed, which is corresponding to Schedule 5 and 6.
- 12. Grants and Subsidies (Schedule-10): Interest earned on Plan Grant fund investment amounting Rs.104.36lacs has been utilized fully, the balance under Non Recurring Grant (OH-35) is Rs.5003.95 lakh and Recurring Grant under (OH-36) is Rs.1739.98 lakhs as on 31.03.2018.
- 13. TEQIP III project has been allotted to the Institute during the year. The project is implemented as a Central Sector Scheme implying that it is 100% funded by the Union Govt. and implemented by the Central Government machinery. With this background MHRD has developed Direct Fund Transfer System through PFMS. Accordingly the Institute is registered on PFMS and all the transaction under TEQIP III are made through PFMS. A consolidated statement showing details of expenditure under TEQIP III is annexed with the Books of Account.
- 14. The Institute had spent an amount of Rs.162.32 lakh through foreign currency transaction against procurement of Equipment and other expenses.

Registrar	Directo

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