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1.0 INTRODUCTION

1.1 MISSION STATEMENT

National Institute of Technology (NIT), Silchar envisions an ambience of excellence, inspiring value-based education, research and development. We commit ourselves to:

- *Train students with world-class competency and cutting edge proficiency to face challenges of global markets with confidence.*
- *Create, disseminate and apply state-of-the-art technologies and practices to societal problems,*
- *Build top of the line faculty through appropriate human resource policies, and*
- *Create effective interface with industry, business and community to make education responsive to changes.*

1.2 OBJECTIVES

Regional engineering College, Silchar was transformed into National Institute of Technology, Silchar; vide Government of India's Notification No. F.9-18/2002-U3, dated 28th June, 2002. The national character of the institute is ensured by admitting students from all the states and union territories of the country. The broad objectives of the institute are the following:

- *To impart instruction, training and awareness to students to meet technological and socio-economic needs of the country.*
- *To benchmark the institute with the best in the country.*
- *To promote a cosmopolitan outlook among the students and faculty and to develop a sense of national integration.*

1.3 EDUCATION SYSTEM

NIT Silchar was awarded the status of Deemed to be University in the year 2002. Since then, the Credit based new education system has been followed. In the Credit based system, more numbers of elective subjects have been included to make the system flexible. On 15th of August, 2007, NIT Silchar was declared as Institutions of National Importance under NIT Act, 2007. The first batch of this Institute of National Importance (both B. Tech. and M. Tech..) will appear their final semester examination in May-June, 2011. Industrial training for the students is a part of the education system. Either NSS or NCC is mandatory for all students.

1.4 NEW INITIATIVES

The Department of Civil Engineering has opened two new disciplines in M. Tech. in 'Geotechnical Engineering' and 'Transportation Engineering'. The department is conducting Ph. D. programme in the areas of Water Resource Engineering, Geotechnical Engineering, Environmental Science and Engineering, Engineering Seismology and Engineering Geology. It is planning to start research programmes in Hydraulics Engineering, Structural Engineering, Earthquake Engineering, Transportation Engineering etc.

The Department of Mechanical Engineering has received 05 numbers of research projects during the reporting year. The floor area of the department has been increased by making vertical expansion of the original building.

The Department of Electrical Engineering has started Ph. D. programme long back. It has opened a new B. Tech.. discipline, namely, 'Electronics & Instrumentation Engineering.' It is preparing to open another new discipline in M. Tech., namely, 'Control and Automation'.

The Department of Computer Science and Engineering has started Ph. D. programme from 2008-09. One of the faculties of this Department has completed Ph. D. under AU under the supervision of one professor of EE Department of this Institute during the reporting period.

The Department of Electronics and Communication Engineering is carrying out Ph. D. works in 'Microelectronics & VLSI Design' and 'Power Electronics'. It is planning to start Ph. D. works in 'Communication & Signal Processing'.

03 numbers of Ph. D. thesis were submitted in the **Department of Physics** during the reporting year. The Department is taking initiatives to open a PG course in Applied Physics from 2010-2011 session. The floor area of the department has been increased by 164 sq m. to start new P G laboratories.

The Department of Chemistry has offered a new course in M. Sc. in Applied Chemistry. The floor area of the department has been increased by 164 sq m. to start new P G laboratories. The department is running two research projects.

04 scholars have enrolled in the Ph. D. programme in the **Department of Mathematics** during the reporting year. The department is conducting research in the areas of 'Fuzzy Sequence', 'Complex Analysis' and has taken initiatives to start M. Sc. program in mathematics.

Almost all the departments of the institute have received **Research & Development Funds** from different agencies e.g. AICTE, MHRD, Directorate of Science & Tech., KVIC, Mumbai, DST-SERC, etc. for carrying research projects and for creating new laboratories and/or for modernising their existing laboratories.

Attempts are being taken to shift ECE, CSE departments as well as Central Computer Centre to their new locations, each having floor area of 2650 sq m (approx).

2.0 AN OVERVIEW

2.1 HISTORICAL BACKGROUND

In the late fifties, the Government of India decided to establish Regional Engineering Colleges (REC) under the Quality Technical Education Policy – 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 ventures of the Government of India and the respective state governments. Assam is a major state in the North-East region 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 first batch of students was admitted in 1977 in the B.E. programmes in 3 branches of Engineering, namely, Civil Engineering, Mechanical Engineering and Electrical Engineering. The total intake in the first batch was 60 students. The meagre 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 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 was awarded degrees in the year 1982-83. Subsequently, two more branches, namely, (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 20 June, 2002. The Institute has been taken over by government of India and subsequently made into a 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 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 was held on 16 February 2004 to award degrees to all students who qualified for degree after its transformation into an NIT.

On 15th of August, 2007, NIT Silchar was declared as Institution of National Importance under NIT Act, 2007. The first batch of this Institute of National Importance (both B. Tech. and M. Tech..) will appear their final semester examinations in May-June, 2011.

2.2 LOCATION

The institute is situated at Silchar (latitude 24.5°N, longitude 92.51°E, at a height of 114.68 m above MSL), the headquarters of the district of Cachar in Assam. The location of the institute is at a distance of about eight kilometers 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. Silchar is well connected with the rest of the country via Guwahati, the major city of the North East region, by air and road and by air via Kolkata. Silchar has direct air link with Imphal, Aizawl and Agartala as well. Buses, Auto-Rickshaws, and Taxis are available from Silchar town to the College campus.

2.3 CAMPUS

The campus of the institute is spread over an area of 540 acres, set amidst a sprawling landscape of natural quietness, bordered on expansive teagardens. It presents a spectacle

of harmony in modern architecture, natural beauty and picturesque surroundings. The campus area has been organized in three functional sectors:

- Hostel for students
- Instructional buildings and administrative block
- 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 computerized branch of State Bank of India, a Post-Office, and a number of telephone booths with STD/ISD facilities in the campus. The Institute has its own Dispensary with a full-time lady Medical Officer to attend to the regular 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. An adequately equipped Canteen is there near the instructional zone which provides facilities to the students and the staff during and beyond the working hours. There is a well-equipped Gymkhana and a Students Activity Centre which are utilized by students for activities like body building, indoor games and similar other pursuits. There is a 12-room Guest House in the campus for the visitors. At present, for the extra-curricular activities of the students and staff, there is an Institute hall with a sitting arrangement of around five hundred audience. The institute has two buses, which make morning and evening trips to Silchar town. City buses and Auto rickshaws ply between Silchar town and the institute campus. There is a Lower Primary School in the campus for the schooling of children.

2.4 ADMINISTRATION

NIT Silchar is administered by NIT Act, 2007. According to the Act, a Board of Governors (BOG) is made responsible for superintendence, direction and control of the affairs of the Institute. The Director is the principal academic and executive officer of the institute. Besides the Board of Governors, there is a Council, a Senate, a Finance Committee and a Building & Works Committee as the authorities of the institute. Registrar is the secretary of all these committees.

2.5 ACADEMIC PROGRAMME

The following programmes were offered during the period under consideration (2008-09):

- i) Bachelor of Technology
- ii) Master of Technology
- iii) M. Sc. in Applied Chemistry
- iv) Doctor of Philosophy

2.6 AN OVERVIEW OF COURSES OFFERED

- i. Four-year B. Tech. Programmes in Civil Engineering, Mechanical Engineering, Electrical Engineering, Electronics & Tele-Communication Engineering and Computer Science & Engineering was offered during the reporting year.
- ii. Two-year M. Tech./M. Sc. programmes in Water Resources Engineering Earthquake Engineering Power and Energy System Engineering Thermal Engineering Design & Manufacturing Engineering Microelectronics & VLSI Design M. Sc. in Applied Chemistry was offered during period.

- iii. Enrolment for Ph. D.. programmes took place Civil Engineering Electrical Engineering Mechanical Engineering Physics Chemistry Humanities and Social Science Electronics & Tele-Communication Engineering and Mathematics Departments during reporting year 2008 & January 09.

2.7. ADMISSION PROCEDURE

(i) Bachelor of Technology

Admission in to the B. Tech. programme is through AIEEE conducted by the Central Board of Secondary Education. The institute acts as a Counselling Centre for the entire North eastern region including the state of Sikkim.

RESERVATION

Course	Types of concessions	Category of students	Magnitude
B. Tech.	Reservation at admission stage	ST	7.5%
		SC	15%
		PH	3%
		OBC	27%
	Foreign and other category of students		24 seats (over and above the sanctioned intake)
	7 (seven) seats are reserved for physically handicapped candidates against Assam quota within the overall seat allotted to Assam		

(ii) Master of Technology

The advertisement for admission into M. Tech. programme was released in leading national newspapers, local dailies and in the website of the institute. Admission were offered on the basis of marks in the qualifying examination (B. E./B. Tech.), performance in interview and the GATE score. GATE qualified candidates are eligible for institutional financial assistance. Candidates are required to have a minimum of 60 per cent of marks or its equivalent in Bachelor of Engineering/Technology degree.

(iii) Doctor of Philosophy

The advertisement for admission into Ph.D. programme was released in leading national newspapers, local dailies and in the website of the institute. The candidates were selected on the basis of marks in the qualified examinations and on the basis of interview. The candidates with at least 60 per cent of marks (CPI 6.5) in M.E./M.Tech and first class with 60 per cent of marks in M.Sc and 55% marks for MA were allowed to apply. B.E./B.Tech degree holders with excellent academic record with CPIU at least 8 (70 per cent of marks) were also allowed to apply. Assistantship to regular full-time students with valid GATE/NET score were permitted subject to availability of fund.

2.8 STUDENTS

According to the admission policy of NIT Silchar, 50 per cent of the students are from the State of Assam and the other 50 per cent are from the other states, as per seats allotted to each state by the Government of India for undergraduate courses. Besides these, there

are some seats for the students from foreign countries. The institute is open to persons of either sex and of whatever race, creed, caste or class and no condition is imposed as to religious belief or profession or any other condition whatsoever in admitting students. M. Tech.. and Ph. D.. programmes are also open to all.

2.9 EXAMINATIONS AND EVALUATION

After the conversion of this institute to NIT with Deemed University status in 2002, the examination and evaluation pattern have totally been changed. The erstwhile COE office and marks system have been abolished and the new Grade system has been adopted following the patterns followed in IITs.

In the new system, as a Deemed University, all works related to examination is done internally without involvement of any university/institute. The question papers are set by the departments and upon scrutiny of answer scripts by the faculty, Grades are sent to the Academic Section with approval of DUPC/DPPC for further processing of tabulation and finalization of result-sheets. Result- sheets of final semesters are placed before the Senate for its acceptance and recommendation to BOG. The BOG on its approval confers the degree to the successful candidates. The BOG of this Institute is the final authority to confer any degree to a student.

2.10 PLACEMENT

The institute has a separate full-fledged Training and Placement (T&P) Cell headed by a Faculty-In-Charge (T&P), under Dean (SA). In addition to making arrangement for placement and industrial training to the students, the cell is responsible for issuing railway and air-concessions, bona fide certificates, course completion certificates, character certificates etc. The T&P Cell also handles the scholarships of the students.

A total of 187 students from various disciplines were placed in different national level companies during the reporting period. Details are given in **Annexure-11.9**.

2.11 GAMES AND SPORTS

The institute recognizes the extra-curricular activities as a part to students' life and hence well-equipped facilities for games and sports are provided within the hostel premises, in other general locations and in the student activity centre. Hostels are equipped with most of the indoor games facilities. The student activity centre is used as an indoor stadium. A well laid playing ground is used for outdoor games and tracking events. Besides these, students, faculty and staff have facilities for playing Tennis, Basketball, Volley-ball etc. Inter-hostel cricket, football and volleyball events are regularly conducted in the institute. One gymnasium centre, housing modern keep-fit and gym equipment was in operation, during the period of reporting. Details of available facilities are mentioned in **Art 9.8**.

2.12 STAFF POSITION

There are 248 staff during the period under consideration against the sanctioned strength of 342 staff is mainly divided into two groups. These are Academic (Non-teaching) and Non-academic (Non-teaching) staff. Academic (Non-teaching) staff consists of: Technician, Workshop Instructor, Laboratory Attendant and few others. The Non-academic (Non-teaching) staffs are sub grouped as administrative, Ministerial, Technical, Medical, Hostel, Watchman, Mali, Sweeper, Attendant/Peon etc. Details are given in **Annexure-11.6**.

2.13 NOTABLE ACHIEVEMENTS

The following were the notable achievements during the period under consideration.

- **03** Numbers OF Ph. D. thesis were submitted in the Department of Physics.
 - **36** papers were published in different International Journals, 3 others were communicated.
 - **13** papers were published in National Journals.
 - **40** papers were presented in different International Conferences and Conferences/Seminars.
 - **65** papers were presented in different National Conferences/Seminars.
 - **16** numbers of short term programs were organized in the institute.
 - **05** new faculty members joined NIT Silchar during the reporting year.
 - **187** students were placed on job.
 - Several buildings, constructions of which were started earlier, were completed and were made functional. Some of them are: expansion of Administrative bldg., Vertical expansion of M E Deptt, construction of Hostel No-7, CSE, CCC & ECE bldg. Renovation works of Internal road and commissioning of Independent water supply plant at NIT campus have been completed. Further, construction works of CEC bldg., New Girls' hostel, Class room Part-II, 60 new Faculty Quarters have been undertaken during the reporting period.
 - The library was computerized using Libsys software. RFID and DVR Technologies was implemented for security purpose.
- Details are given in **Art-10.0**

3.0 THE STAFF

3.1 ACADEMIC (NON-TEACHING) STAFF

During the reporting period there were 59 Nos. of academic (non-teaching) staff against the sanctioned strength 86. This group of staff includes: System Programmer, Workshop Staff, Librarian, Asstt. Librarian, Technicians and the Lab. attendants in the departments etc.

3.2 NON-ACADEMIC (NON-TEACHING) STAFF

There were 189 numbers of of non-academic (Non-teaching) against the sanctioned strength of 259. The sub groups of staff belonging to this category are: Administrative, Ministerial, Technical, Medical, Hostel, Watchman, Mali, Sweeper, Attendant/Peon etc.

Four numbers of Non-teaching staff were retired/expired during the period of report (i.e. one each in Jr. Instructor, Laboratory Attendant, Watchman and Cook-cum-helper).

3.3 TRAINING STATUS

The Institute has the policy to send its staff for various training programs to improve skill and proficiency in their work.

30 Nos. of Teaching faculties and 3 numbers of non-teaching staff were sent for attending Training/Conference etc. at various locations in India, during the period 2008-09. **(List of members is at Annexure – I)**

Further, 10 Nos. of Teaching Staff were sent abroad under TEQIP to attend the Universities/Organizations during the period under consideration. **(List of members is at Annexure – II)**

3.4 PLACEMENT OF STAFF FOR ACADEMIC EXCELLENCE

There was no such program for placement of staff for academic excellence during the period under consideration.

4.0 TEACHING PROGRAMMES

4.1 COURSES OFFERED

- (i) *A four year B. Tech. Programme in the following branches of engineering and technology, was offered during period.*
 - ❖ Civil Engineering
 - ❖ Mechanical Engineering
 - ❖ Electrical Engineering
 - ❖ Computer Science & Engineering
 - ❖ Electronics & Tele-Communication Engineering
- (ii) *Two-year M. Tech./M. Sc. programme in the following branches of engineering and technology was offered during period.*
 - ❖ Water Resources Engineering (Under Civil Engineering Department)
 - ❖ Earthquake Engineering (under Civil Engineering Department)
 - ❖ Power and Energy system Engineering (Under Electrical Engineering Department)
 - ❖ Thermal Engineering (Under Mechanical Engineering Department)
 - ❖ Design & Manufacturing Engineering (Under Mechanical Engineering Department)
 - ❖ Microelectronics & VLSI Design (Under Electronics & Tele-Com. Engineering Department)
 - ❖ M. Sc. in Applied Chemistry (Under Chemistry Department)
- (iii) *Enrolment for Ph. D. programme took place in the following departments during reporting year 2008 & January 09.*
 - ❖ Civil Engineering
 - ❖ Electrical Engineering
 - ❖ Mechanical Engineering
 - ❖ Physics
 - ❖ Chemistry
 - ❖ Humanities and Social Science
 - ❖ Electronics & Tele-Communication Engineer
 - ❖ Mathematics

INTAKE CAPACITY

Branch-wise, Course-wise Student Intake Capacity

Courses Offered	B. Tech. (intake)	M. Tech. (intake)	Ph. D. (intake)	Total
Civil	92	18	-	110
Mech.	92	18	-	110
Elect	92	18	-	110
ETC	92	18	-	110
CSE	92	NIL	-	92
M. Sc. Applied Chem.	-	10	-	10

4.2 B. Tech. ENROLMENT

The following table shows the semester-wise, course wise enrolment with gender and caste break up for the period 2008-09.

The excess intake (over and above the intake capacity) was carried out as seat distribution program made by MHRD vide: OM No F. 23-12/2008 TS III, Dated July 19, 2008.

Sem	Branch	Open (Break up)		OBC (Break up)		SC (Break up)		ST (Break up)		PH	Total Enrolment
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls		Total
1st & 2nd	Civil	34	2	20	5	11	2	7	-	2	83
	Mech	42	-	27	-	14	-	8	-	3	94
	Elect	44	4	21	4	12	1	10	-	1	97
	ETE	46	4	26	-	14	2	5	2	2	101
	CSE	39	4	24	5	12	1	5	1	4	95
	TOTAL	205	14	118	14	63	6	35	3	12	470
3rd & 4th	Civil	32	5	-	-	7	-	3	-	-	47
	Mech	43	1	-	-	5	-	6	-	-	55
	Elect	35	7	-	-	6	4	1	3	-	56
	ETE	44	9	-	-	8	1	4	-	-	66
	CSE	39	7	-	-	7	1	3	1	-	58
	TOTAL	193	29			33	6	17	4	-	282
5th & 6th	Civil	26	6	-	-	7	2	4	1	-	46
	Mech	44	1	-	-	6	-	6	-	-	57
	Elect	30	8	-	-	3	2	4	-	-	47
	ETE	42	6	-	-	9	-	2	1	-	60
	CSE	40	5	-	-	5	2	4	-	-	56
	TOTAL	182	26	-	-	30	6	20	2		266
7th & 8th	Civil	22	5	-	-	5	1	2	-	-	35
	Mech	41	-	-	-	5	-	5	1	-	52
	Elect	27	6	-	-	3	1	3	-	-	40
	ETE	30	-	-	-	4	1	5	-	-	40
	CSE	29	2	-	-	4	-	3	1	-	39
	TOTAL	149	13	-	-	21	3	18	2		206
Grand Total:-		729	82	118	14	147	21	90	11	12	1224

CE=Civil Engineering, ME=Mechanical Engineering, EE=Electrical Engineering, ECE= Electronics and Communication Engineering, CSE= Computer Science and Engineering,

The following is a summary table of the number of B. Tech.. student on the roll of NIT Silchar during 2008-09

Year	CE	ME	EE	ETE	CSE	Total
1st	83	94	97	101	95	470

2 nd	47	55	56	66	58	282
3 rd	46	57	47	60	56	266
4 th	35	52	40	40	39	206
TOTAL	211	258	240	267	248	1224

4.3 **ADMISSION STATISTICS**

4.3.1 **ADMISSION OF B. TECH. PROGRAMME (STATE-WISE, COURSE-WISE)**

(EXCLUDING EXTRA STUDENTS ADMITTED Vide: MHRD)

States	Category	CE	ME	EE	ETC	CSE	Total
Assam	Open	17	22	25	28	25	117
	OBC	10	15	15	13	14	67
	SC	6	7	7	14	9	43
	ST	4	5	5	6	4	24
	OPPH	1	1		1	1	4
Manipur	OBC	1			1	1	3
	Open			1	1		2
	SC				1		1
Nagaland	OBC	1					1
	Open	1	1		1	1	4
	ST			1			1
Andaman	OBC	1					1
	Open					1	1
Rajasthan	OBC	3	1	4	3	3	14
	Open	2	3	3	5	3	16
	SC	1		2			3
	ST	1		1	1	2	5
Bihar	OBC	2	1	4	4	3	14
	OBC P/H	1				1	2
	Open	1	2	1	1	1	6
	OPPH		1				1
	SC	1	4				5
Uttar Pradesh	OBC	5	6	2	3	5	21
	OBC P/H				1		1
	Open	3	6	4	1	4	18
	OPPH			1			1
	SC	1	4	2		4	11
	SCPH					1	1
Andhra Pradesh	OBC	1	1			2	4
	Open	2	2	3	6	2	15
	SC			1			1
Jharkhand	OBC		1	1	1		3
	Open	1	1	2		1	5
	OPPH		1				1
Delhi	OBC		1	1			2
	Open	2	1		1		4
	SC		1	1			2
Kerala	OBC				1		1
Haryana	OBC		1				1
	Open	1				1	2

Sikkim	Open	1		1	1	1	4
Orissa	Open	1	2	1			4
	ST			1			1
Maharashtra	Open	1		1		1	3
Chhattisgarh	Open	1			1		2
Meghalaya	Open	1			2		3
	ST	1	1	1			3
Gujarat	Open	1					1
Mizoram	Open					1	1
	SC				1		1
	ST		1	1			2
West Bengal	Open	2				1	3
	SC	1					1
Madhya Pradesh	Open	1		1	1		3
Arunachal Pradesh	Open		1		1		2
	SC	1					1
	ST		1				1
	STPH					1	1
Dadra Nagar Haveli	Open		1				1
GRAND TOTAL:-		85	96	94	101	94	467

COURSE-WISE B. Tech. ADMISSION STATISTICS

Sl No	Courses	Intake Capacity	Admitted
1.	Civil Engineering	92	83
2.	Mechanical Engineering	92	94
3.	Electrical Engineering	92	97
4.	Electronics and Communication Engineering	92	101
5.	Computer Science and Engineering	92	95
TOTAL		460	470

NUMBER OF FOREIGN STUDENTS ADMITTED

In addition to the above, 3 numbers of students from Bangladesh were admitted during the year 2008-09 through Government of India.

4.3.2 ADMISSION STATISTICS OF M. TECH./PH. D. PROGRAMMES (COURSE-WISE)

The following table shows course-wise admission statistics of P G programmes (M. Tech. and Ph. D.) for the year 2008-09.

Department	Sanctioned M. Tech.	M. Tech. specialization	No. of PG students		
			M. Tech.	Ph. D.	Total
C E Deptt	18	M. Tech. in water Resource Engg.	04	--	10
	18	M. Tech. in Earthquake Engg.	06	--	
	--	Ph.D.	--	04	04
M E Deptt	18	M. Tech. in Thermal Engg.	12	--	15
	18	M. Tech. in Design & Manufacturing	03	--	
	--	Ph.D.	--	05	05

E E Deptt	18	M. Tech. in Power & Energy system Engg.	07	--	07
	--	Ph.D.	--	03	03
ECE Deptt	18	M. Tech. in Microelectronics & VLSI Design	06	--	06
	--	Ph. D.	--	04	04
CSE Deptt	--	Ph. D. under "IITG-NITS-MoU"	--	01	01
Physics	-	Ph.D. only	--	01	01
Chemistry	-	Ph.D. only	--	03	03
Mathematics	-	Ph.D. only	--	02	02
Humanities	-	Ph.D. only	--	08	08
GRAND TOTAL ADMITTED:-			38	31	69

The following is a summary table of the PG students on the roll of NITS Silchar during 2008-09 (Sum of students admitted during 2007-08 and students admitted earlier)

Courses	CE	ME	EE	ECE	CSE	Ph	Ch	Maths	HSS	TOTAL
M. Tech.	18	26	18	09	-	-	-	-	-	71
Ph. D.	10	07	04	07	05 (MoU)	04	09	02	17	60+5=65
TOTAL	28	33	22	16	05	04	09	02	17	136

4.4 STUDENT STRENGTH ON THE ROLL (COURSE WISE)

Courses	Branches	Total students strength (course wise)
B. Tech.	Civil Engineering	211
	Mechanical Engineering	258
	Electrical Engineering	240
	Electronics & Communication Engg.	267
	Computer Science & Engineering	248
M. Tech.	Postgraduate Courses (of all departments)	71
Ph. D. including students of IITG-NITS-MoU		60+5
Total B. Tech.. + M. Tech..+ Ph. D.:-		1360

4.5 THE HOSTELS

The Institution is a fully residential one. Accommodation for all students is provided in 7 nos. of Boys' Hostels and two Girls' Hostel. The Girls' Hostel has accommodation for 200 students. The Board of Hostel Management, under the Dean (SA), administers these hostels. Each hostel is under direct control of a Warden. A Disciplinary Committee comprising of all Deans oversees the student discipline. Hostel Management Committee consisting of Prefect and other students' members to look into day to day affairs of the hostel. Mess Management Committee is responsible for messing in each hostel.

4.6 SCHOLARSHIPS/ASSISTANTSHIP

Students admitted in this Institute are awarded various types of scholarships. Institutional Merit and Merit-cum-Means scholarship are awarded by the Director of the Institute to 25 per cent of the students admitted in NIT Silchar every year or 25 per cent of intake capacity, whichever is less. Two-third of this 25 per cent receives Merit-cum-Means scholarship and the rest one-third receives Merit scholarship. Other than this, students receive various scholarships offered by various State Governments, PSUs, and Charitable Trusts/Organizations. During the period under review 165 students received scholarships /stipend from various sources.

4.7 GAMES AND SPORTS

Apart from academic activities, NITians are very enthusiastic in games and sports. Students play football, volleyball, basketball, cricket and others games. Generally at weekends or during holidays internal competitions are held. Regular events like inter-hostel tournaments in various games took place during the year under review as well. Besides this, students participated in competitions organized on the occasions of Republic Day, etc. NIT Silchar students participated in sports events in IIT Guwahati in January-February 2008.

4.8. AWARDS

The institute offered the following awards during the period under consideration:

- ❖ Gold medals were awarded, one each to the best Post-Graduate and Graduate, of the Institute. **Shri Ningthoukhongjam Sukumar Singh of Civil Engg. and Shri T. Girish Kumar of Electronics and Communication Engg.** were awarded Gold Medals for M.Tech. and B. Tech. respectively.
- ❖ 6 (six) Silver Medals were awarded to the toppers of the other departments.

Branch-wise, Department-wise recipients of the Silver Medal were:

Branch	M. Tech.	B. Tech.
Civil Engg.	-	Prasanta Kumar Sil
Mechanical Engg.	Biplab Das	Sayantan Pal
Electrical Engg.	Ilyas Mohammad	Sudeep Ranjan Pal
Electronics & Tele-Com. Engg	-	-
Computer Sc. & Engg	-	Saikat Roy Choudhury

4.9 EXAMINATION DETAILS

- Even semester examinations were held in the month of May, **2008 (both B. Tech.. & M. Tech..)**
- Odd semester examinations were held in the month of December, **2008 (both B. Tech.. & M. Tech..)**

(A) END SEMESTER EXAMINATIONS (GRADE SYSTEM) HELD IN MAY-JUNE, 2008

Program	Branch & Course	Number Appeared	Number Passed	Percentage passed
M. Tech.	CE (Water Resources Engg.)	02	02	100%
	CE (Earthquake Engg.)	04	04	100%
	ME (Thermal Engg.)	05	05	100%
	EE (Power and Energy system Engg.)	07	07	100%
	Total	18	18	100%
B. Tech.	CE	41	40	97.56
	CSE	33	33	100%
	EE	43	42	97.67
	ETC	35	32	91.42%
	ME	49	49	100%
	Total	198	196	98.98%

(B)

END SEMESTER

EXAMINATIONS (MARKS SYSTEM) HELD IN MAY, 2008

B. Tech.	ETC	1	1	100%
	EE	1	1	100%

(C) SUMMARY OF RESULTS (i.e., A + B)

Program	Branch & Course	Number Appeared	Number Passed	Percentage passed
M. Tech.	CE (Water Resource Engg.)	02	02	100%
	CE (Earthquake Engg.)	04	04	100%
	ME (Thermal Engg.)	05	05	100%
	EE (Power and Energy System Engg.)	07	07	100%
B. Tech.	CE	41	40	97.56%
	CSE	33	33	100%
	EE	44	42	95.45%
	ETC	33	32	96.96%
	ME	49	49	100%

4.10 TRAINING AND PLACEMENT

Campus recruitment process conducted by the Institute is a very vital activity. A Training and Placement Committee (TPC) was formed during the period under consideration involving a few final year students. The TPC contacted various companies for campus recruitment. A College information brochure was prepared. T&P Cell received positive response from a number of companies and a number of students were selected in the companies that visited the Institute during the period under consideration. A total of 290 jobs were offered in the campus recruitment process by 38 different organizations during 2008-09. 187 students were placed in different organizations during the reporting period.

The T&P Cell conducted its functions through Faculty-in-Charge (T&P) under the Office of the Dean (SA). The T&P Cell consists of office, two examination rooms, interview room and a group discussion room.

Besides this, the Cell also arranges summer training programmes for all 6th semester B. Tech. students.

5.0 RESEARCH AND DEVELOPMENT

5.1 Ph. D. PROGRAMMES

The **Department of Civil Engineering** has started its Ph. D. programme from the academic session 2004-05. During the reporting year 04 scholars were enrolled for Ph.D.

The **Department of Mechanical Engineering** has started its Ph. D. programme from the academic session 2004-05. During the reporting year 04 scholars were enrolled for Ph.D.

The **Department of Electrical Engineering** has started its Ph. D. programme from the academic session 2006-07. During the reporting year 03 scholars were enrolled for Ph.D.

The **Department of Electronics and Telecommunication** has sponsored faculty to undertake Ph. D. programme under the NIT Silchar and IIT Guwahati MOU on academic exchange/linkage. During the reporting year 04 scholars were enrolled for Ph.D.

The **Department of Computer Science and Engineering** has started Ph. D. programs.

The **Department of Chemistry** started the Ph. D. programme from the January session of 2005 in Synthetic and Analytical Chemistry. 02 scholars were enrolled in the programme during the session 2008-09.

The **Department of Mathematics** has Ph. D. Programme in Fuzzy Sequence & Complex Analysis. Four scholars were enrolled in the program during 2008-09.

The **Department of Humanities and Social Sciences** had enrolled Ph.D scholars in the areas of economics and philosophy during the reporting year. During the reporting year 08 scholars were enrolled for Ph.D.

5.2. DETAILS OF PH. D.s COMPLETED

Three numbers of thesis have been submitted from the department of Physics during the reporting year.

5.3 PROPOSED PLAN FOR RESEARCH

The **Department of Civil Engineering** has expertise in the following areas:

Seismic performance evaluation with different control strategies, seismic slope stability analysis, effect of clay dampers in wave propagation, and behaviours of saturated and unsaturated soils under dynamic loading, water resources engineering. The Department is conducting research in these areas and also offering Ph.D programmes in these broad areas.

The **Department of Mechanical Engineering** has expertise in fluid mechanics, thermal engineering, refrigeration & air-conditioning, design engineering, manufacturing, optimization, etc. The Department is conducting research in these areas and also offering Ph. D. programmes in these broad areas.

The **Department of Electrical Engineering** has expertise in power electronics, soft computing, genetic algorithm and its application in power system and is working towards offering doctoral programme in this field.

The **Department of Electronics and Communication Engineering** has expertise to conduct research in semiconductor devices, microelectronics & VLSI design and communication engineering. Already few scholars (internal) are working on these areas.

The **Department of Chemistry** started the Ph. D. programme in 2005 and since then the Department has been trying to provide expertise in synthetic inorganic chemistry, energy and environment, synthetic organic chemistry, chemistry of natural products and reaction kinetics and mechanism. The Department also received new research project from the Department of Science and Technology.

The **Department of Physics** is actively involved in the experimental research in the emerging areas of science and technology. Ph. D. programme is going on in the

department. Broad areas of expertise available in the department are Solid State Gas Sensors, Carrier Transport in Thin Films, Solar Energy Materials, Interface States Characterization in Solid State Devices, Liquid Crystals, Nano-materials etc.

The **Department of Humanities and Social Sciences** now has expertise in agricultural and development economics in the field of economics and ethics, applied ethics and continental philosophy in the field of philosophy. The Department presently has thirteen research scholars and in the forthcoming year Ph. D. programme will be initiated in English Literature with expertise in contemporary Indian literature and feminism.

According to the Institute's Eleventh Plan proposal, 6 new M. Tech. courses will be running by the end of the Plan period in Structural Engineering, Control and Instrumentation, Production Engineering, Communication Engineering, Computer Science and Engineering and Machine Design and Robotics, with 180 as total intake capacity. The Plan also envisions the opening of postgraduate courses in science and humanities with an annual intake of 80 students.

5.4 INSTITUTE-INDUSTRY COLLABORATION

The institute being located in an industrially backward area, in spite of best efforts, it has not been possible to establish substantial interaction with industry during the year under review. However, a few consultancy and testing jobs have been carried out in this reporting year. Department of Scientific & Industrial Research, Government of India has identified the Institute as TePP Outreach Centre (TUC) under Technopreneur Promotion Programme (TePP). Through TUC activities, interaction with industries will improve.

5.5 INNOVATIONS AND TECHNOLOGY TRANSFER

Efforts are being made in this regard. However, no innovation or technology transfer has been achieved during the year under review.

6.0 COMPOSITIONS OF THE COUNCIL, BOG & OTHER COMMITTEES

6.1. COUNCIL OF THE INSTITUTE

The Composition of the Council was as under

Note: The council functioned till the First Statute, under the National Institute of Technology Act, 2007 was declared/made available.

01.	Minister of Human Resource Dev. (HRD), Govt. of India (GOI)	Chairman
02.	Education Secretary, Ministry of HRD, GOI	Member
03.	Principal Advisor (Education), Planning Committee	Member
04.	Secretary, Department of Science and Technology, GOI	Member
05.	Director General, Council of Scientific and Industrial Research	Member
06.	Special Secretary/Additional Secretary/Educational Advisor (T), Ministry of HRD, GOI	Member
07.	Chairman, University Grants Commission	Member
08.	Chairman, All India Council for Technical Education	Member
09.	Financial Advisor, Ministry of HRD, GOI	Member
10.	Two Chairmen of the Boards of the institute (by rotation)	Member
11.	Five Directors of the Institute (by rotation)	Member
12.	One Director of an IIT (by rotation in alphabetic order)	Member
13.	Two Secretaries of Higher/Technical Education from the state (by	Member

	rotation) where the NIT as located	
14.	Two persons from Industry nominated by the Central Government	Member
15.	Joint Secretary (Technical Education)/Joint Educational Advisor (T), Ministry of HRD, Govt. of India	Member Secretary

6.2 FINANCE COMMITTEE

The Finance Committee of the Institute is composed of the following members;

01.	The Chairperson Board of Governors, Ex-officio Chairman
02.	The Director, ex-officio member
03.	Joint Secretary dealing with National Institutes of Technology or his nominee and Financial Advisor (Human Resource Development) or his nominee members
04.	Two persons nominated by the Board from amongst its members
05.	The Registrar, ex-officio, Member Secretary: Provided that in addition to the above, the Chairman may, in consultation with the Director, co-opt a member as and when found necessary.

6.3 BOARD OF GOVERNORS

The Board of Governors of the Institute is composed of the following members:

01.	The Chairperson to be nominated by the Visitor
02.	The Director, ex-officio
03.	Two persons not below the rank of the Joint Secretary to the Government of India to be nominated by the Central Government from amongst persons dealing with technical education and finance
04.	Two persons to be nominated by the government of the State in which the Institute is situated, from amongst persons, who, in the opinion of the Government, are technologists or industrialists of repute
05.	One professor and one assistant professor or a lecturer of the Institute to be nominated by the Senate

6.4 BUILDING AND WORKS COMMITTEE

The Building and Works Committee of the Institute is composed of the following members:

01.	The Director, ex-officio Chairman
02.	One member nominated by the Central Government not below the rank of Director or Deputy Secretary
03.	One member nominated by the Board of Governors
04.	Registrar, ex-officio, Member Secretary
05.	Dean, Planning and Development or similar position-Member
06.	One expert each from Civil and Electrical Engineering Wing of Central or State Government or any autonomous body of repute-Member

6.5 OTHER COMMITTEES

SENATE

The Senate of the Institute is composed of the following members:

01.	The Director, ex-officio, who shall be the Chairman of the Senate;
02.	The Deputy Director, ex-officio
03.	The Professors appointed or recognized as such by the Institute for the purpose of Imparting instructions in the Institute
04.	Three persons, one of whom shall be a woman, not being employees of the Institute, to be nominated by the Chairperson in consultation with the Director, from amongst educationists of repute, one each from the field of science,

	engineering and humanities
05.	Registrar is the secretary of the senate

The lists of members of the aforesaid committees are presented in Annexure.

7.0 CONCESSIONS FOR SC, ST AND HANDICAPPED STUDENTS

7.1 CONCESSIONS PROVIDED IN ADMISSION OF STUDENTS

Course	Types of concessions	Category of students	Magnitude
B. Tech.	Reservation at admission stage	ST	7.5%
		SC	15%
		PH	3%
		OBC	27%
	Foreign and other category of students		24 seats (over and above sanctioned intake)
	7 (seven) seats are reserved for physically handicapped candidates against Assam quota within the overall seat allotment of Assam		
M. Tech.	Reservation at admission stage	ST	7.5%
		SC	15%
		PH	3%
		OBC	27%

B. Tech.: There is no concession provided to the SC, ST and PH students for their payments towards Institution and Hostel fees.

M. Tech. & Ph. D.: For ST, SC students; tuition fees are waived. All fees for institutional faculties who enrol for doing Ph. D. are waived except their caution money and registration fees.

7.2 CONCESSION PROVIDED FOR STAFF

Statutory reservation policy and concession is followed by the institute for teaching and non-teaching posts.

8.0 FINANCIAL STATUS

8.1 ANALYSIS OF PLAN, NON-PLAN AND OSC GRANTS

(Rupees in lakhs)				
Sl. No.	Particulars	Plan	Non-Plan	OSC
1.	Opening balance as on 01.04.2008	187.98	270.37	0.00
2.	Grant-in-Aid received from Govt. of India during the year 2008-09	900.00	1318.25	1002.75
3.	Institute income during the year	0.00	290.40	6.16
4.	Total (1+2+3)	1087.98	1879.02	1008.91
5.	Expenditure during the year	1256.21	1519.26	238.46
6.	Balance as on 01.04.2009	(-)168.23	359.76	770.45

8.2 SOURCES OF FUNDS

Plan:	Grant-in-Aid sanctioned by the Govt. of India (MHRD) in 3/4 installments in a financial year
Non Plan:	(I). Grant-in-Aid sanctioned by the Govt. of India (MHRD) and (II). Revenue from Institute.
OSC:	For implementation of the recommendations of the Over Sight Committee on 54% capacity expansion and 27% OBC reservation in NITS, Grant-in-Aid sanctioned by the Govt. of India (MHRD) on 2 installments during the period under report.
TEQIP:	Total grant amounting to Rs.12.68 crores had been received from Government of India under World Bank assisted Technical Education Quality Improvement Programme (TEQIP), out of which a total asset acquired for Rs.1130.62 lakhs and recurring expenditure incurred for Rs.137.38 lakhs, totaling Rs.12.68 crores, has been utilized up to March 2009.

8.3 EXPENDITURE POSITION FOR STAFF

Sl No	Head of Accounts	Amount in Rupees in lakhs
1.	Salary of faculty	326.68
2.	Salary of Staff	442.14
3.	Arrear of 6 th pay commission	161.24
4.	Salary of Ad-hoc faculty	0.10
5.	Daily wage & MR Staff	37.51
6.	Leave salary	3.70
7.	Bonus for Group C & D staff	12.26
8.	Contribution to CPF	93.91
9.	Contribution to Gratuity fund	42.00
10.	Medical reimbursement	3.12
11.	LTC/HTC	3.58
12.	Pension contribution	0.22
13.	Security service	38.09
TOTAL:-		1164.55

9.0 CENTRAL FACILITIES AND SERVICES

9.1 CENTRAL COMPUTER CENTRE

The Institute computing facility includes high-end workstations and Intel Pentium based Personal Computers. All the computing resources of the institute are connected through a gigabit backbone LAN. In the reporting year, the Institute has enhanced its 2MBPS Internet Access facility to 16 MBPS leased line circuit from M/S BSNL. In addition, it has a 64 KBPS SCPC VSAT Link from ERNET. The Desktop PC of each faculty member is connected with Internet. Internet connectivity is also extended to Students' Hostels. The newly constructed (2650 Sq m) floor for the central computer centre has been made ready for occupation during the reporting year.

9.2 WORKSHOPS

The workshop of the Mechanical Engineering Department acts as a Central Workshop of the Institute. It has Machine, Welding, Fitting, Carpentry, Smithy, Pattern making and foundry shops. The workshop has Centre Lathes, Turret Lathe, Milling machines

(horizontal, vertical & Universal), Drilling machine (sensitive, polar & radial), Slotting machine, Grinder Pedestal, Surface Grinder M/C, Tools and Cutter Grinder Shaper machine, Planner machine, Power saw, MIG welding machine, TIG welding set, Motor Generator welding set, Wood Turning Lathe, Electric furnace, Thickness Planner, Smithy Hearth furnace, Shearing machine, Grinding machine, Bench Grinder, Sand Reaming machine, Green Hardness Tester, Sheet Bending machine, Hand Punching machine, Plate Bending machine, Sieve analyzer, Permeability tester etc. One 10-tonne UTM has been added to the Workshop during the year of reporting. Common workshop classes are held in the workshop along with workshop classes for higher semester of Mechanical Engineering branch. Different project works for the undergraduate students are also held in the workshop. The workshop is well equipped for the project works of the PG students of the Department. However, continuous efforts are being made to augment the facilities of the workshop commensurate with the change in technology. The workshop is also used for fabrication work for the Institute.

9.3 LIBRARY

In 2008-09, NIT Silchar Library continued to make progress towards the realization of the key strategies designed to improve support for the institute's learning, teaching and research activities. The Library has developed its collection by acquiring latest information resources during the year. The following table is a brief profile of information resources available in the library as on 31-03-2009:

Sl. No.	Name of Resources	Total Number available as on 31 st March 09
1.	Books	71,668
2.	Print Journal	61
3.	Bound Volume	4,921
4.	CD-ROMs	2,374
5.	Databases	20
6.	Videos	909
7.	ISI Code (Printed)	8,621
8.	Reports	340
9.	Book Bank (General)	8,836
10.	Book Bank (SC/ST)	6,758

Newly Added Resources

1.	Knovel ME Books
2.	CMIE Database
3.	AEA Database
4.	SIAM (LOCUS) (1952-1996 Backfiles)

LIBRARY SERVICES

The library continued to provide basic services like circulation and OPAC (Online Public Access Catalogue) services along with other allied services i.e. scanning, photocopying service and reference services etc. to its users throughout the year.

ELECTRONIC LIBRARY

The library renewed subscription to 3 databases those were subscribed during the previous year. Library added 4 new databases during this year and continued to receive 13 databases from INDEST consortia sponsored by MHRD, GOI.

The library had access to the following databases of INDEST Consortia.

Name of the Database	URL
ACM Digital Library	http://portal.acm.org/portal.cfm
ASCE Journals	http://www.pubs.asce.org/journals/jrns.html
ASME Journals (including AMR)	http://www.asme.org/pubs/journals
IEL Online (5 users)	http://ieeexplore.ieee.org
Indian Standards	http://bis.nits.ac.in
Nature	http://www.nature.com
Proquest Science	http://www.il.proquest.com/pgdauto
Springer Verlag	http://www.springerlink.com
Science@direct	http://www.sciencedirect.com
ASTM Journals	http://journalsip.astm.org
ASTM standards	http://enterprise.astm.org
ASTM	http://www.astm.com
J-Gate custom	http://jccc-indest.informindia.co.in

Library has added 29 new professional journals of Wiley, Elsevier & T&F etc. during the year and subscribed to the following databases during the year.

Name of the e - resources	URL
DELNET	www.delnet.nic.in
CMIE Database	www.cmie.com
LNCS	www.springerlink.com
SIAM (LOCUS) (1952-1996 Backfiles)	www.locus.siam.org/ or http://epubs.siam.org
AEA E-journals Package	www.aea.com
Science@direct Backfiles Collection	www.sciencedirect.com
Knovel ME Books	www.knovel.com

INFRASTRUCTURE FACILITIES

Library has Techfocuz library server, which can host more than 2500 CDs to host the Digital Library. There are three computers kept inside the library to facilitate information accessing by users. Library is having VCP, Scanner and HP LaserJet Printer.

Library is using Libsys-integrated library management software for automating various functions in the Library like book procurement, circulation etc. Library is using RFID technology for book security purpose.

9.4 LABORATORIES

Deptts.	Name of the Laboratories	Main equipments available/experiments conducted
Civil Engg.	<ul style="list-style-type: none"> • Strength of Materials • Fluid Mechanics • Environmental Engineering • Transportation 	<i>Universal Testing Machine</i> (100 T), Compression, Impact Testing Machines, Hardness Testing Machines, Spring Testing Machines, Torsion Testing Machines. <i>Wind Tunnel</i> (Sub sonic), Cascade Tunnel, Centrifugal Pump Test Rig, Reciprocating Pump Test Rig, Gear-Oil Pump Test Rig, <i>Kaplan Turbine</i> Test Rig, Francis Turbine

	<p>Engineering</p> <ul style="list-style-type: none"> • Concrete • Survey • Soil Mechanics • Computation 	<p>Test Rig, Pelton Wheel. <i>Gas Analyser</i>, Digital pH/Turbidity Meter, Spectrophotometer, Universal Titrator, <i>Automatic Penetrometer</i>, Centrifuge Extractor, Deval Attrition Machine, Ductility Testing Machine, Marshal Stability Apparatus, Benkelman Beam Apparatus, Aggregate Impact Value Apparatus. <i>Compaction Factor</i> apparatus, Mortar Mixer, Rock-Tiaxial Machine, Los-Angles Abrasion Machine, Vee-Bee Apparatus, Rock Cutter Machine. <i>Total Station</i>, Wild T-2 Theodolite, etc. Triaxial Testing apparatus, CBR Testing Machine, Direct Shear Apparatus, Consolidation Apparatus, Motorised Vane shear Apparatus, Proctor Compaction Apparatus, etc. SUN Ultra-10 High end Computation System, ANSYS Software, Pentium-4 PCs, etc. <i>Cyclic Triaxial</i> Test set up <i>Computerized direct shear</i> test set up <i>B & K Pulse analyzer</i> Advanced computational laboratory with computers of latest configuration</p>
Mechanical Engg.	<ul style="list-style-type: none"> • Computational • Machine Dynamic & Vibration • Instrumentation • Energy • I.C. Engine & Automobile • Heat Transfer • CNC lab • Material Science • Metrology • Steam Power • Refrigeration and Air conditioning 	<p>Different types of transducers, data logger and script chart recorder; Torsional vibration system of single rotor with viscous damping, Longitudinal vibration system of Spring, Universal Governor, Motorised Gyroscope, Whirling of shaft, Cam Analysis Machine, Vibration of rotor system, Journal Bearing apparatus; Digital pressure indicator, Various torque sensor, Various Load Cell, Radiation Pyrometer, Strain gauge, temperature indicator, Strain Measurement tutor, Temperature Measurement tutor using RTD sensor, Temperature Measurement tutor CTC Sensor, Speed Measurement tutor, Load measurement tutor using load cell, Pressure measurement tutor using pressure transducer, Water level measurement using water level transducer, Long range linear measurement tutor using potentiometric transducer, Inductive measurement tutor, Light measurement tutor, Pressure Cells, Inductor Measurement Tutor, Rotary Measurement Tutor, Height Measurement Tutor, Pressure meter train kit, Thermocouple Measurement Kit, Various thermocouples, Educational Software data logging package Robot Stimulation Software, Mechatronic Training Package; 2 and 4 Stroke Petrol engine, 4-Stroke single cylinder Diesel engine, Petrol Jeep vehicle, TATA engine 312M, Air compressor, hydraulic machine, Nozzle tester; Thermal conductivity measurement, Emissivity measurement, Parallel flow/Counter flow Heat Exchanger, Cross-flow heat exchanger, Forced convection, Condensation apparatus; NISA 3D Fluid Flow Package, Projection Manometer; Starturn CNC Bench turning center with accessories like 3 Jaw S.C. Chuck, 8-Station indexing tool post, Manual quick change tool holder body, Quick change tool holder for external and internal turning, External and internal cutting tools; Kaplan Turbine, Airflow Bench complete with accessories as Drag Force Apparatus, Memo meter with tube and Boundary Layer Apparatus; Different types of Microscopes, Field Microscope, Polishing facilities, Hardness testing machine, Impact testing machine, spectrometers; The infrastructure facilities for different study of</p>

		microstructure & mechanical properties; Oil fires Boiler; Computerised Refrigeration and Air-conditioning test rig, Ice Plant, Refrigeration Lab Unit (R 714) with Data acquisition upgrade (RC 714) etc.
Electrical Engg.	<ul style="list-style-type: none"> • Electrical Machines • Basic Electrical Sc • Measurement & Instrumentation • Control System • Microprocessor • Power Electronics & Electric Drives • Computer • Non-conventional Energy • Analog-Digital Electronics 	Different kinds of general purpose Synchronous, Induction, DC machines; Transformers, Schrage Motors, study of different electrical and magnetic circuits, measurement of various parameters, Instruments for measurements of various parameters and electrical quantities; Servo motor kits, Analog Computers, Instrumentation tutor, Control system trainer, Different types of Microprocessors with different head-on cards, Different types of power converters kits, Characteristics of different power devices. Solar photo voltaic cells, Solar radiation Detector, Wind Turbine with on-line data logging. Analog and Digital IC components, Trainers, Oscilloscopes, IC test benches, Oscilloscope of 100 MHz Characteristics of semiconductor devices, Registers, Counters, Digital Clocks etc. Efforts are made to upgrade/modernize the laboratories. More than Rs. 50 lacs has been invested for the procurement of different equipment.
Electronics & Communications Engg. Computer Science and Engg.	<ul style="list-style-type: none"> • Basic Electronics Lab • Digital Electronics Lab • Communication Engg Lab • CAD of VLSI Lab • Advanced Communication Lab • Data Structure & OOP Lab • Microprocessor & Microcontroller Lab • System Programming & Operating System • DBMS Lab • UNIX/NT Lab • DSP & Embedded System Lab • Computer Graphics & Multi Media Laboratory 	<p>The laboratories are equipped with 350 MHz Synchroscope, 100 MHz Storage scope, 16 channel Logic Analyzer, 8510B Network Analyzer, Microwave Frequency Counter, RF Spectrum Analyzer, NT Server, Workstations (P-III), ORCAD, MATLAB, SIMULINK, Electronic Workbench, ISDN Emulator, Fibre Optic training kits, UNIX Servers, NT Server besides other standard software.</p> <p>COMMSIM Trident Lab software (25 users license), ELANIX System view software (10 users license), LAN Trainer from BENCHMARK (04 Kits), DSKTMS320C 6713 & 6416 board from Crans s/w international (05 each set), DSP TMS320DM64X based communication interface (One set), DSK 6713 video/image interface or captured board with camera from EDUTECH (three), Micro-controller development board for 8051(08), PCB Fabrication tools (One set), Oscilloscope (20), Workstations, Embedded system Board 1.8540 2.ARM Processor 3.IMX21 (Software) (05 number of 8540+02 number of ARM processor), Itanium server (03), MT-9000 microwave Test Bench (2), IBM Rational Rose university relation program (Software) (2 nos each of total 20 license users), Man and Tel Blue-tooth Trainer Model BT 2001 (01), Man and Tel Mobile communication (01), VHDL ACTIVE HDL Simulation software (0001 set).</p>
Physics	<ul style="list-style-type: none"> • Physics Laboratory (B.Tech. programme) • Condensed Matter Physics Research Laboratory • Computer Room 	<p>Laboratory has the facilities for undergraduate Programmes</p> <p>Laboratory is well-equipped with advanced facilities for carrying out research in the emerging areas of science and technology. Major facilities available are High</p>

		Vacuum Coating Unit (HHV make), 6514 Electrometer (Keithley make), LCR Hitester (Hioki Model No. 3522-50), PerkinElmer Lambda 35 UV/VIS Spectrophotometer, Hall Measurement set-up, Polarising Microscope, Impedance Analyser (Solartron Model No. 1260 A), XRD System etc. PC-Pentium with internet connectivity and other relevant software available
Chemistry	UG Chemistry Lab Instrument Laboratory	Polarimeter, TG-DTAFTIR, UV-VISIBLE, GC, PH-METER, DO-METER

9.5 HOSPITAL, POST OFFICE, SHOPPING CENTRE

HOSPITAL

The Institute has a dispensary having staff, as on 31-3-2009, given below:

Sl No	Staff Positions	Numbers
1.	Senior Medical Officer	0
2.	Lady Medical Officer	1
3.	Pharmacist	1
4.	Nurse-cum-midwife	0
5.	Medical Attendant	3

Senior Medical officer retired on 31.1.2008. All the staff and students of the Institute avail medical aid from the dispensary. The Institute also has an ambulance for carrying patients to Silchar Medical College Hospital for emergency treatment.

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

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.

SHOPPING CENTRE

A portion of the old LTD building houses the Institute Stores Section and the remaining portion is being used for shopping & other purposes with Post Office, Bank, PCOs, Fax Centres, DTP Centres and Bookshops etc. One Nescafe Corner, located adjacent to this building, operated by Nestle India Ltd. (under agreement with NITS) has opened during the year of reporting and is in operation.

STAFF CANTEEN

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

9.6 PHYSICAL FACILITIES

Category	Name of Building	Area (Sq m)
Non-residential buildings (Administrative & Institutional Buildings) (Details given below in Art-9.6.1)	Administrative building	1876.00
	Institutional building	7570.00
	Expansion of Classroom	6974.00
	Workshop	2588.00
	M.E dept.	1895.00
	ETE dept.	1137.00
	Library building	975.60
	Dispensary	156.00
	Old Administrative building	800.00
	Staff Canteen	416.00
Hostels	Details of existing Bldgs. is given in <u>Art-9.6.2</u>	31517.30
Staff quarters		10746.00
Guest House		216.00
Bldgs. constructed during reporting year		8263.00
Bldgs. under construction	Details given in <u>Art-9.6.3</u>	24657.00

9.6.1 BUILDINGS FOR ADMINISTRATIVE & INSTITUTIONAL ACTIVITIES

Administrative Complex	Administrative block (G+1)
	Central Store/Estate Engg. Branch (G)
Institutional Buildings	Civil Engg. Deptt. (G+2)
	Electrical Engg. Deptt. (G+2)
	Mechanical Engg. Deptt. (G+1)
	Mechanical Workshop in two blocks (G)
	Electronics & Communication Engg. (G+2)
	Computer Science & Engg. (G+2)
	Physics Deptt. (GF)
	Chemistry Deptt. (FF)
	Humanities Deptt. (FF)
	Mathematics Deptt. (GF & FF)
	Training & Placement Sec. (SF)
	Classroom (G+1)
Amenities Complex	State Bank of India with ATM
	Post Office
	Shops, Co-operative Store, PCOs, Xerox, Computer Center with internet facility
	Gymnasium Room
	NITS Café (Staff Canteen)

9.6.2 HOSTELS, STAFF QUARTERS AND GUEST HOUSE

HOSTELS

Hostel	Single-seated	Double-seated	Triple-seated	Area (Sq m)
Hostel No.1	66	11	27	3600.00
Hostel No.2	68	Nil	24	2620.00
Hostel No.3	68	Nil	24	2620.00
Hostel No.4	148	Nil	48	5030.00
Hostel No.5	74	Nil	24	2894.00
Hostel No.6	150	75	Nil	9620.00
Hostel No.7	152	76	Nil	9650.00

Girls' Hostel	Nil	24	45	1809.00
Girls' Hostel (New) GF	Nil	23	Nil	1661.60

STAFF QUARTERS AND GUEST HOUSE

Category	Number of Units	Area (Sq m)
Director's Bungalow	1 unit	195.00
Professor qtrs.	7 units	1073.00
Assistant Professor qtrs.	7 units	700.00
Lecturer qtrs.	15 units	1143.00
Type-D qtrs.	12 units	1123.00
Type-C qtrs.	8 units	514.00
Gr-III qtrs.	60 units	3000.00
Gr-IV qtrs.	30 units	1358.00
Type-IV qtrs.	12 units	261.00
Teachers' Flat	12 units	590.00
Guest House	12 Rooms	216.00

9.6.3 NEW BUILDINGS CONSTRUCTED/OCCUPIED DURING REPORTING YEAR

Buildings	Plinth area (Sq m)
Expansion of Physics Department (FF)	164.00
Expansion of Chemistry Department (GF)	164.00
CSE, ETE & CCC building (G+2)	7,935.70

NEW BUILDINGS UNDER CONSTRUCTION

Building	Student/Staff Capacity	Plinth Area (Sq m)
CEC Building		4,079.17
Classroom Expansion (Phase-II)	1620	2,800.00
Girls Hostel (First Floor)	54	3,303.00
Type-VI(EL)	12 units	2,466.00
Type-V(E)	20 units	2,787.00
Type-IV(E)	28 units	2,556.40
Hostel No. 8	500 seats	18,244.00
Dispensary Building (Vertical Expansion)		189.00

9.7 PROPOSED CONSTRUCTIONS

1. Water Supply distribution network along with 2 Nos. of over head water reservoirs
2. Building for the Production Engineering Course under Mechanical Engg. Department.
3. Sports Complex and Swimming Pool.

9.8 FACILITIES FOR GAMES & SPORTS

The Institute has a playground measuring 150m x 90m with facility for playing football, Cricket, Hockey and other games. NIT Silchar also has a hard court for playing basketball and is provided with hard courts for playing Volleyball and Badminton. It has got a Lawn Tennis court within the campus. Glimpses are given below.

Football/Cricket ground	30,600.00 Sq m
Basket ball court	1 No.
Tennis court	3 Nos.
Badminton court	3 Nos.

Students' Activity Centre	1,145.00 Sq m
Amenities Building	1,739.00 Sq m

10.0 NOTABLE ACHIEVEMENTS

10.1 PAST ACHIEVEMENTS

Since inception in 1977, the Institute has produced more than 4000 undergraduate engineers in Civil Engineering, Electrical Engineering, Mechanical Engineering, Electronics & Telecommunication Engineering and Computer Science & Engineering streams. The Institute has produced more than 40 M. Tech.. Engineers in various specializations during the last two years. Three numbers of Ph. D.s were awarded from the department of Physics. Besides this, the Institute has been acting as State Technical Agency for the State of Manipur under Prime Minister's Gram Sadak Yojana (PMGSY). The Institute has been offering consultancy and expertise to local industries, government departments, public sector undertakings etc.

10.2 ACHIEVEMENTS DURING THE REPORTING YEAR

(a) Publication in International Journals/Chapter Contributed in Books

Name of Faculty	Title of the Paper	Publication Details
Civil Engineering Department		
P Rajbongshi	Estimation of Temperature Stress and Low-Temperature Crack Spacing in asphalt Pavements	Jr. of Transportation Engg, ASCE. 135(10). pp 745-752, 2009.
	A critical Discussion on Mechanistic-Empirical Fatigue Evaluation of Asphalt Pavements	Int Jr. of Pavement Research & Technology, 2(5), pp 223-226, 2009.
	A Systematic Approach of Field Calibration of Fatigue Equation for Asphalt Pavements	Road Materials and Pavement Design, 10(I), pp 109-124, 2009.
	Thermal Fatigue Considerations in Asphalt Pavement Design	Int. Jour. of Pavement Research and Technology, 1(4), pp 129-134, 2008
	Optimal Asphalt Pavement Design Considering Cost and Reliability	Jour. of Transportation Engineering, ASCE, 134 (6), pp. 255-261, 2008.
U Kumar	Fixed bed column study for the removal of Zn (II) from aquatic waste by sodium carbonate treated rice husk	Asian Jour. of Water, Environment and Pollution, Vol. 5, No. 2, 103-106, 2008.
Mechanical Engineering Department		
R Gupta	Development of Software Using Fuzzy Logic to Predict Erosive Wear in Slurry Pipeline System	Transaction of WSEAS journal, ISBN ~ ISSN: 1790-2769, 960-6766-67-1, pp 165-169, 2008.
	Experimental Investigation of Three-Bladed Airfoil-Shaped H-rotor made from Fibre glass Reinforced Plastics (FRP)	Under Review in Journal of Renewable Energy

	CFD Analysis of a Combined Three-Bucket Savonius & Three-Bladed Darrieus Rotor at Various Overlap Conditions	Jour. of Renewable and Sustainable Energy 1, 033110 (2009)
	An Artificial Neural Network Based Methodology for the Prediction of Power & Torque Coefficients of a Two Bladed Airfoil Shaped H-Rotor	Open Renewable Energy Journal, Vol. 2, pp 43-51, 2009
	Prediction of Performance of Combined Savonius-Darrieus Rotor using Hybrid Neuro-Fuzzy Controller	<i>Under Review in</i> Journal of Applied Soft Computing
	Design & Techno-economic analysis of a gasification plant based on bamboo dust waste of Cachar Paper Mill	<i>Under Review in</i> Int. Jour. of design & manufacturing Technologies.
K M Pandey	Experimental studies on effect of noise level control for 7.5 KVA Diesel generator set with an enclosure	<i>Accepted</i> for publication in Int. Jour. of environmental research and development (JERAD).
	Experimental studies on controlling piston slap noise of standard engine of Hero Honda splendour	<i>Accepted</i> for publication in Int. Jour. of environmental research and development (JERAD).
D Datta	A multi-objective evolutionary algorithm to exploit the similarities of resource allocation problems	Jour. of Scheduling, Springer; Vol-11; 2008; pp 405-419.
L Roy	Steady state and dynamic characteristics of axial grooved journal bearings	<i>Accepted</i> by Elsevier on 19 October 2008 for publication in Tribology International.
S Chatterjee	Recent Inventions in Biodiesel Production and Processing- A Review	Journal of Recent Patent on Engineering (2008) 2: 47-58.
Electrical Engineering Department		
N Sinha	Hybrid PSO/ Self-adaptive Evolutionary programs for Economic load dispatch with non-smooth cost function	Int. Jour. of Recent Trends in Engineering (ISSN 1797-9617), ACEEE, 2009.
S Chaudhury	Low Leakage FSM Synthesis with Area and Dynamic Power trade-offs	<i>Integration the VLSI</i> , Elsevier Nov. 2008.
L C Saikia	Maiden application of bacterial foraging technique in multiarea automatic generation control	IEEE trans. on power systems, VOL 24, No.2, May'09.
Electronics and Communication Engineering Department		
S Baishya	A surface potential and quasi-Fermi potential based drain current model for pocket implanted MOS transistors in sub threshold regime	Microelectronics Reliability - to be published
M Chakravarty	Acetone sensing of zero quantum dots embedded in PVA matrix	Journal of Nano Science & Nano Technology - to be published
J Mehedi,	A Fuzzy Based Distributed Approach to	Int. Jour. of

M K Naskar	Maintain Connectivity of Nodes in Mobile Ad-Hoc Networks Considering Pursue Mobility Model	Computational Intelligence: Theory and Practice. (accepted)
Computer Science and Engineering Department		
B Purkayastha et al	Hybrid PSO/Self-adaptive Evolutionary programming for Economic Load Dispatch with non-smooth Cost Function	Int. Joint Jour. Conf. in Engineering 2009, IJJCE-2009
Physics Department		
A Bhattacharjee	Structural, dielectric, and electrical studies on thermally evaporated CdTe thin films	Materials Science (Springer), 44-2, 534-540, 2009
	Synthesis and characterization of CdX (X=S, Te) thin film	Chemical Sciences, 7-1, 105-115, 2009.
A Roy	Temperature dependent leakage current behavior of pulsed laser ablated SrBi ₂ Ta ₂ O ₉ thin films	Appl. Phys., Vol. 105, No. 4, pp. 44103-44108, 2009
	Interfacial and electrical properties of SrBi ₂ Ta ₂ O ₉ /ZrO ₂ /Si heterostructures for ferroelectric memory devices	Appl. Phys., Vol. 104, No.6, pp. 64103-64108, 2008
Chemistry Department		
R Rano	Characterisation of High Carbon Ash From thermal Power station using pulverised Fuel Combustor	Energy sources-Part-A, accepted for Publication.
M Ahmaruzzaman	Adsorption of Phenolic compounds-A Review	Advances in Colloid and Interface Science 143 (2008) 48-67.
	Proximate analyses and predicting HHV of chars obtained from cocracking of petroleum vacuum residue with coal, plastics and biomass	Bioresource Technology 99 (2008) 5043-5050
M Ahmaruzzaman	Characterization of liquid products obtained from co-cracking of ternary and quarternary mixtures of petroleum vacuum residue, polypropylene, Samla coal and <i>Calotropis Procera</i>	Fuel 87 (2008) 1967-1973
	Characterization of liquid products obtained from co-cracking of petroleum vacuum residue with coal and biomass	Jour. of Analytical and Applied pyrolysis 81 (2008) 37-44.
Mathematics Department		
M Sen	Vector valued paranormed I(p) spaces associated with multiplier sequences	Fasciculi Mathematici, No. 39 (2008), 125-133
G Ramesh	Approximation of Entire functions over Jordan domains	Communications in Mathematical Analysis, Vol-7, No 1 (2009).

(b) Publication in the National Journals/Chapter contribution in Books

Name of faculty	Title of Paper	Publication Details
Civil Engineering Department		
S Choudhury	Seismic Safety of Operational and Functional Components in Hospitals	Civil Engineering Jour. of IEL, Vol. 89, Feb'09

A K Dey	Dynamic properties and Ground response analysis of Silchar soil on NE India	Indian Geotechnical Jour., Vol. 38, No.4, Oct'08, pp 393-412
Mechanical Engineering Department		
R Gupta	An Experimental Investigation on the Fabrication and Mechanical Characterization of Aluminum-Silica Gel Metal Matrix Composite (MMC) By Die Casting Technique	Under review in Indian Journal of Engineering & Material Science (IJEMS)
Electrical Engineering Department		
S Chaudhury	Fixed Polarity Reed-Muller Network Synthesis and its Application in AND-OR/XOR based circuit realization with Area-Power Trade-offs	<i>IETE Journal of Research Sept-Oct. 2008, Vol. 53.</i>
Humanities and Social Science Department		
G Das	Indo-Bangladesh Relations: Issues in Trade, Transit and Security	Das, Gurudas (ed.) 2008, <i>Indo-Bangladesh Border Trade: Benefiting from Neighbourhood</i> , Akansha Publishing House, New Delhi
	Identity and Underdevelopment: On Conflict and Peace in Assam	Dutta Hazarika, Sujata (ed.), 2008, <i>Peace in Dialogue: Universals and Specifics</i> , Akansha Publishing House, New Delhi
	<i>Indo-Bangladesh Border Trade: Benefiting from Neighbourhood, 2008</i>	Akansha Publishing House, New Delhi
N B Singh	Public Investment and Agricultural Growth in Manipur	Singh, E. B. & Ksh. Jhaljit Singh, 2009, <i>Challenges of Economic Policy in Manipur</i> , Akansha Publishing House, New Delhi
	Agrarian Structure and Agricultural Production in Manipur	Singh, Ch. Priyoranjan (2009): <i>Tribalism and the Tragedy of the Commons Land, Identity and Development: The Manipur Experience</i> , Akansha Publishing House, New Delhi
Central Library		
K C Satpathy	Resource Sharing & Library Networks in India	Jour. of Information, Library & Society, 21 (31-2), Jan-June. 2008: 75-85.

(c) Presented Papers in International Conferences/Workshops/Seminars

Name of faculty	Title of Paper	Publication Details
Civil Engineering Department		

P Rajbongshi	A Systematic Approach for Development of Field Rutting Equation	<i>ICPE-09, College of Engg & Techy, B.P.U.T., Bhubaneswar, 14-15, Feb'09, pp. 184-190.</i>
	Rubberized Mastic Asphalt Using Soft Bitumen	<i>TPMDC 2008, CD-ROM, IIT Bombay, Dec 3-6, 2008.</i>
	Estimation of structural reliability of Asphalt Pavement for Mixed Axle Loading Conditions.	<i>ICPT, Sapporo, Japan, July 20-23, 2008, pp. 35-42.</i>
	Reliability Based Automated Design of Flexible Pavements	<i>Annual Meeting of TRB 2008, Transportation Researchers Board, Washington, Jan'08.</i>
U Kumar	Sorption of cadmium from aqueous solution by Sodium hydroxide pre-treated rice husk-2010	<i>Conf. on Energy & Environmental, NIT Kurukshetra, 19-21, Mar'09, pp. 111-114.</i>
	Review on noise pollution from internal combustion engine	<i>Conf. on Energy & Environment, NIT, Kurukshetra, 19-21, Mar'09, pp. 111-114.</i>
	Experimental studies on controlling piston slap noise of standard engine of hero Honda splendour	<i>Int. Congress of Environmental Research, BITS, Pilani – Goa (India), 18-20, Dec'08.</i>
Mechanical Engineering Department		
R Gupta	Comparative Study of a Two-Bladed Airfoil Shaped H-Darrieus Rotor with a Two Straight Bladed H-Darrieus Rotor	World Renewable Energy Congress X and Exhibition 19–25 July'08, Scotland, UK.
	Water Pollution Impact Assessment on Environment of Cachar Paper Mill - A Case Study	Int. Conf. on Energy Security and Climate Change: Issues, Strategies & Options, 06-08 Aug'08, AIT Bangkok.
	Comparative Study of a Three-bladed H-Darrieus Rotor with a Two-Bladed H-Darrieus Rotor with Various H/D Ratios	Int. Conf. on Energy Security and Climate Change: Issues, Strategies, and Options, 06-08 Aug'08, AIT Bangkok
	Development of Software for Prediction of Erosive Wear in Slurry Pipeline Systems	2007 WSEAS Int. Conf., Istanbul, Turkey, 27-29, May'08.
	Fabrication of Aluminum-Silica Gel Metal Matrix Composite (MMC) By Die Casting Technique For Wind Rotor Blades	Int. Conf. on ICCST/7, 20–22, Jan'09, American University of Sharjah, UAE.
	CFD analysis of Two-Bucket Savonius Rotor Using Fluent Package. European Wind Energy Conference (EWEC) & Exhibition	16-19 March, Marseille, France.
	Performance Study of a Three-bladed Airfoil-Shaped H-rotor made from Fibreglass Reinforced Plastics (FRP)	European Wind Energy Conf (EWEC) & Exhibition, 16-19 March, Marseille, France.

	XRD Analysis of Aluminium-Silica Gel Metal Matrix Composite (MMC)	Int. Conf. on Composite Structure, 15-17 June, 2009, Porto, Portugal.
	"Optimization of Thermal Energy for Rosekandi Tea Estate using EORT- A Case Study. International Conference on Advances in Mechanical Engineering".	ICAME-2008, SVNIT, Surat, 15-17 Dec'08.
	"CFD Analysis of Combined Three-Bucket Savonius and Three-Bladed Darrieus Rotor Using Fluent Package".	ICAME-2008, SVNIT, Surat, 15-17 Dec'08.
K M Pandey	Training and development needs of human resources in a software company: a case study of Cadtrium Engineering solutions	Proc. of AIMS, Indian Business Academy, Greater Noida, 28-31, Dec'08 pp.365-370.
	Health effects of software people: an overview, Proceedings of the 6 th AIMS International conference on management ,	Indian Business Academy, Greater Noida, 28-31, Dec'08 pp 371-374.
	Review on noise pollution from internal combustion engines,	Proc. of Int. conf. on energy and environment, 9-21 Mar, Chandigarh, India PP 111-114
	Studies on doses of pesticides on mutations in seed character of the plants for a better environment,	Proc. of Int. conf on energy and environment, 19-21, Mar, Chandigarh, India PP 778-780.
Patowari P K	"A Qualitative and Quantitative Analysis of Deposited Layer on C-40 Steel Treated with W-Cu P/M Electrodes in EDM"	2nd Int. & 23 rd AIMTDR conf., IIT Madras, Chennai, India, Dec 15-17, 2008, pp 201-207.
K Mukharjee	An integration of green manufacturing and mass customization.	6 th AIMS Int. conf on management, Dec 28-31, 2008.

Electrical Engineering Department

A K Roy & D C Das	"Wind Energy Generator for Build Environment"	ICAME-2008, 15-17 Dec'08.
N Sinha	"GA Based Algorithm for Optimum Allocation of Reactive Power under Deregulated Environment".	Int. Conf. on Electric Utility Deregulation & Restructuring of Power Technologies (DRPT '08), 6-9 April'08, Nanjing, China
S Chaudhury	Saurabh Chaudhury, Santanu Chattopadhyay, "Leakage-aware Multi-level Logic Minimization based on BDD Manipulation",	IEEE Symposium Cool Chip XI April 2008, Japan
L C Saikia	"Comparison of performances of several types of classical controller in automatic generation control for an interconnected Muti-area thermal system"	AUPEC'08, Sydney Australia, in Dec'08.
T Malakar	Linear Perturbation based Repeated Power flow: A Useful Tool for Transfer Capability Calculation in Deregulated Power System	
J P Mishra	Robust Sensorless Indirect Vector Controlled	Proc. Of Int. Conf. on Power

	Induction Motor Drive using EKF Trained RNN	System Analysis, Control and Optimisation "PSACO-2008
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Electronics and Communication Engineering Department

Mrs M Paul	PAPR reduction in OFDM system	Computer Communication Control and Information Techy, Feb 6-7 Dec, PP- 677, WB
S Baishya A Mallick C K Sarkar	A two Dimensional Surface potential Based Subthreshold slop model for short channel MOS transistors	26 th Int. conf. on Micro electronics University of NIS, NIS, Serbia, May-2008
R H Laskar, F A Talukdar R Bhattacharjee Saugat Das	Voice conversion system using SVM for vocal tract modification and codebook based model for pitch contour modification	IEEE Conf. proc. (TENCON-08), University of Hyderabad, 2008.
R H Laskar, F A Talukadar R Bhattacharjee Saugat Das	Voice conversion system using Support Vector Machine"	WSC online conf. proc., Elsevier, 2008
S Biswas, J Mehedi, M K Naskar	A Fuzzy based Adaptive Distributed Algorithm for Topology Management in Mobile Ad-Hoc Network	Int. Conf. on Contemporary Computing, IC3 2008, Noida, India, pp. 17-25, 7-9 Aug'08.
	Topology Management in Self-Adaptive MANET: A Distributed Approach	Int. Conf. on Contemporary Computing, IC3 2008, Noida, India, p.p. 26-33, 7-9 Aug'08.
	A Novel Distributed Algorithm to Maintain Connectivity in Mobile Ad-Hoc Networks	Int. Workshop on Mobile System, WOMS2008, WBUT, Kolkata, pp. 1-5, 11-12 Jul'08

Chemistry Department

M Ahamruzzaman & S Laxmi Gayatri	Adsorptive removal of p-nitrophenol using charred jute stick", accepted for presentation and published in Abstract.	Int. Conf. on Environmental Science and Technology, 28-31 Jul'08, Huston, Texas, USA.
P Barman & T Bhattacharjee	A novel method for the reduction of aromatic nitro compounds under microwave irradiation.	ICFCR-2008. Deptt. of Chemistry, Mangalore University, 29-31, Dec'08.

Central Library

K C Satpathy	The Pro-Active Librarian: the how and the why: illustrated by case studies from Canada and India	Proceedings of the IFLA World Library and Information Congress; Milan, Italy, 23-27 August 2009
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(d) Presented Papers in National Conferences/Workshops/Seminars

Name of faculty	Title of Paper	Workshop/Conference/Seminar
Civil Engineering Department		
U Kumar	Chemical Stabilization of Heavy Metal Contaminated Wastes	Recent Advances in Mech Engg, NIT Silchar, 20-21, Oct' 08. Pp.
T Rahman, P Roy, U Kumar, K L Baishnab, L C Saikia	"Need of Earthquake Hazard Microzonation for India".	<i>Earthquake Hazard and Disaster Management of NE States of India</i> , NIT Silchar, 18-20, Oct'08, pp 156-159
U Kumar	"Chemical Stabilization of heavy metal contaminated wastes."	NWEME-2008 jointly conducted by NIT Silchar & IPHE, India at NIT Silchar in February 15-16, 2008.
	"SEM-EDAX study of nickel sorption from water and wastewater using rice husk."	NWEME-2008 jointly conducted by NIT Silchar & IPHE, India at NIT Silchar during February 15-16, 2008.
A K Dey	Particle movement under static and dynamic loading	Indian Geotechnical Conf., Vol. 1., Bangalore, 1-19 Dec, 2008, pp 7-10
	Slope Stability analysis under a dynamic loading	Indian Geotechnical Conf., Vol. 1, Bangalore, 1-19 Dec, 2008, pp 7-10
Mechanical Engineering Department		
R Gupta	"Experimental Investigation on the Performance of Two-Bladed H-Darrieus Rotor at Different H/D Ratios"	Nat. Conf. on Advances in Fluid Flow and Thermal Science -2008, 22-24 May, 2008, NIT, Surat, India.
	"Performance Study of a Two-Straight Bladed H-Darrieus Rotor".	Nat. Conf. of FMFP, Dec 2008, PEC Bangalore, India.
	"Performance study of three-bucket semi-circular Savonius rotor".	35 th Nat. Conf. of FMFP, Dec 2008, PEC Bangalore, India.
	"CFD Analysis of Three-Bucket Savonius Rotor Using Fluent Package".	Nat. Conf. on Recent Advances in M E (NCRAME-2008), 20-21, Dec'08, NIT Silchar, India.
	"Performance Measurement of a Three-Bladed H-rotor made from Fibreglass Reinforced Plastic (FRP)".	Nat. Conf. on Recent Advances in M E (NCRAME-2008), 20-21, Dec'08, NIT Silchar, India.
	Productivity Measure of Rosekandi Tea Estate-A Case Study.	Nat. Conf. on Recent Advances in M E (NCRAME-2008), 20-21, Dec'08, NIT Silchar, India.
	A Review on Three-Bladed Vertical Axis Wind Turbines. National Seminar on Renewable Energy Sources in India.	Marwar Engg. College & Research Centre, Jodhpur, Rajasthan, 20-21, Feb'09.
	A Review on H-Rotor Type Vertical Axis Wind Turbines for Small-Scale Power Generation.	24 th Nat. Conv. On Renewable Energy, 17-18, Jan'09, NIT Raipur, India.
K M Pandey	Modeling of a two dimensional combustion chamber having one inlet with Fluent software,	Conf. on AFFTS2008, Deptt of M E, SVNIT Surat, India, 22-24, May'08, pp A-20 to A-30.
	Computational studies on total pressure loss at Mach 1.74 in suddenly expanded ducts with Fluent software,	Conf. on AFFTS'08, Deptt of M E, SVNIT Surat, 22-24, May'08, PP. D-79 to D-87.
	Management of hydro-electric power plants: An overview, National	Deptt of CE, NIT Silchar, Assam, India, 18-20 Oct'08, PP 48-59.

	seminar on earthquake hazard and disaster management of N-E states of India,	
	Disaster management for tourism: An overview,	Nat. Sem. On earthquake hazard and disaster management of NE states of India, Deptt of CE, NITS, 18-20 Oct'08, pp 427.
	Static strength analysis using finite element method for water tank with belt using software ansys design space 6.1/7.1,	Nat. Conf. on advances in engineering design, Deptt ME, NIT Hamirpur, 13-14 Nov'08.
	Flow development in a suddenly expanded duct with cavity at Mach 1.74 from De Laval nozzle at cavity aspect ratio 1,	Fluid mechanics and fluid power conf. at PES Academy Bangalore, 11-13, Dec'08.
	Pressure loss in a suddenly expanded duct with cavity at Mach 1.74 from De Laval nozzle at cavity aspect ratio 1,	Fluid mechanics and fluid power conf. at PES Academy Bangalore, 11-13, Dec'08
	An analysis on flow development in a conical draft tube of reaction turbine with fluent software,	Fluid mechanics and fluid power conf. at PES Academy Bangalore, 11-13, Dec'08
	Numerical studies on supersonic flow over a wedge shaped body using fluent software,	Nat. Conf. on recent advances in Mech Engg Deptt of ME, NITS, 20-21, Dec'08, PP 159-163.
	Numerical analysis of combustion chamber design of turbojet engine with fluent software,	Nat. Conf. on recent advances in Mech Engg, Deptt of ME, NITS, Dec 20-21, 2008, PP 213-217.
	Studies on supersonic free single jet flow a numerical analysis with fluent software, national conference on advances in mechanical engineering,	Deptt of ME, Don Bosco Institute of Technology, Mysore road, Kumbalagodu, Bangalore, 30-31, Mar'09, PP 72-76.
	Studies on rocket nozzle with fluent software,	Deptt of ME, Don Bosco Institute of Technology, Mysore road, Bangalore, 30-31, Mar'09, pp 21-26.
	Numerical Studies on supersonic flow over a few blunt shaped bodies using fluent software,	Deptt of ME, Don Bosco Institute of Techy, Mysore road, Kumbalagodu, Bangalore, 30-31, Mar'09, pp 88-100
	Static strength analysis using finite element method,	Deptt of M. E., SLIET, Longowal, Punjab, February 13-14, 2009
	FEA analysis of frame without cover plate	Nat. Conf. on Welding Technology,
D Datta	Comparing performances of real-coded and integer-coded multi-objective genetic algorithms.	NCRAME-2008, NIT-Silchar, 2008, pp 39-44.
	Improving the performance of a multi-objective particle swarm optimization: A preliminary study.	NCRAME-2008, NIT-Silchar, 2008, pp 176-181
P K Patowari	<i>"Development of a Coding Technique for a Part Family Using the Concept of Group Technology and Post processor for generation of CNC Program",</i>	Nat. Conf. on Recent Advances in Mech. Engg NCRAME-2008, NIT Silchar, Dec 20-21, 2008, pp 54-59.
	<i>"Design of a Power Wheelchair Making Use of Differential Gear</i>	Nat. Conf. on Recent Advances in Mech Engg NCRAME-2008, NIT

	<i>Mechanism",</i>	Silchar, Dec 20-21, 2008, pp 147-152
R D Misra	"Energy Analysis of a Thermal Power Plant: A Case Study of KTVS-V",	Conf. on Recent Advances in Mech Engg (NCRAME 2008), NIT Silchar, Dec. 20-21, pp. 60-65.
	"Finite Time Optimization of an Integrated Absorption Refrigeration System in Brayton Cycle based Micro-Gas Turbine Power Plant",	Conf. on Recent Advances in Mech Engg (NCRAME 2008), NIT Silchar, Dec. 20-21, pp. 135-141.
	"CFD Analysis of Room Air Distribution for Comfort Air Conditioning",	Conf. on Recent Advances in Mech Engg (NCRAME 2008), NIT Silchar, Dec. 20-21, pp. 182-187.
	"Solar Energy Storage- the Hydrogen Option",	Conf. on Recent Advances in Mech Engg (NCRAME 2008), NIT Silchar, Dec. 20-21, pp. 204-209.
	Thermo-economic Optimization of a Vapour Compression Refrigeration System using Evolutionary Programming	NCRAC-2009, IIT Madras, Chennai, 8-10, Jan'09, Paper No. P-35.
A K Biswas	Teaching Profession Ethics to Engineers	Annual Conv. In ISTE held at KIIT, Bhubaneswar , Dec, 19-21, 2008
Lintu Roy	Steady state & dynamic characteristics of oil journal bearing with an axial groove"	Conf. on Recent Advances in Mech Engg, held in NIT Silchar, Dec 20-21, 2008, pp 130-134
	Static strength analysis using finite element method, National conference on welding technology,	Deptt of Mech. Engg, SLIET, Longowal, Punjab, February 13-14, 2009
	FEA analysis of frame without cover plate,	Conf. on welding technology, Deptt of ME, SLIET, Longowal, Punjab, 13-14, Feb'09
P L Choudhury	Steady state and dynamic characteristics of oil journal bearing with an axial groove"	Conf. on Recent Advances in Mech Engg, held in NIT Silchar, 20-21, Dec'08, pp 130-134
	Static Strength Analysis for water tank with belt using software ANSYS design Space 6.1/7.7 "	Conf. on Mechanism, Science and technologies – From Theory to application, NIT Hamirpur, Nov 13-14, 2008, pp 48
S Chatterjee	Overview of some occasional loads on industrial pipelines- some studies.	ETME, Mar, 2009 at MIT Aurangabad
	Effect of Seismic and other occasional Loads on Industrial Pipelines.	Earthquake Hazard and Disaster Management of North-Eastern states of India, NIT Silchar, Oct'08.
	Two different roles of lipase in multi-step biodiesel processing: Newer challenges in immobilization methodologies.	ETME, 2009 at MIT, Aurangabad, Mar'09
	Design of a bench-scale Bio-catalytic Transesterification set-up a preview.	ETME, G H Patel College of Engg & Technology, Vallabh Vidhyanagar, Gujrat, Mar'09.
K K Sharma	Performance of three bucket savionious rotor at small overlap ration	Conf. on Fluid Mechanics and fluid power, PES institute of Technology, Bangalore, 11-13, Dec'08, pp 588-594.
K Mukherjee	Steady state and dynamic ch. of oil journal bearing with an axial groove.	Recent Advances in Mech Engg, NIT Silchar, 20-21 Dec'08, pp 130-134.
Electrical Engineering Department		

	Selection of Governor speed regulation parameters in automatic generation control of a two unequal area thermal system	NCRAME'08, NIT Silchar in Dec'08
L C Saikia	Detection and Classification of Power Quality Disturbances using Wavelet Transform and Fuzzy Logic	In Silicon Institute of Technology, Bhubaneswar, India in March 2009
T. Malakar	Enhancement of Total Transfer Capability in Restructured Electricity Market using FACTS Devices	Conf. on recent advancement in Electrical Machines and Energy Systems, Sept'08, Gujarat, India

Electronics and Communication Engineering Department

S Biswas, J Mehedi, M K Naskar	"An adaptive Algorithm for Topology Management in Mobile Ad-Hoc Networks using Distributed Approach"	Nat. Conf. CSI-RDHS 2008, Kolkata, India, pp. 69-72, 20-21 Jun'08.
S Dalu, J Mehedi, M K Naskar, C K Sarkar	"Implementation of a Distributed Algorithm to Maintain Topology in Mobile Ad-Hoc Networks"	Nat. Conf. CSI-RDHS 2008, Kolkata, India, pp. 79-82, 20-21 Jun'08.
J Mehedi, S Biswas, M K Naskar,	"A Fuzzy Based Distributed Approach to Maintain Connectivity of Nodes in Mobile Ad-Hoc Networks"	Nat. Conf. COIT-2008, RIMT-IET, Mandi Gobindgarh, Punjab, pp. 194-197, 29 th Mar'08
	" A Comparative Study for Packet Delivery Ratio and Delay of DSDV, AODV & TORA Protocols for MANET for the Change of Packet Generation Rate",	Nat. Conference on Computing and Communication System, CoCoSys2009, Burdwan, West Bengal, 2-4 Jan'09
K L Baishnab, F A Talukdar	, "Possible cache timing attack on AES and remedies"	Nat. conference on Communication and Networking, NIT Rourkella Feb'09

Physics Department

B Choudhury	Static dielectric studies on nematogenic compounds and their binary mixtures.	Conference on Liquid Crystals, IISc, Bangalore, 13-15, Oct'08.
	Study of binary mixtures of two liquid crystalline samples.	Seminar on Recent Progresses in Physical Sciences, Karimganj College, 20-21, Dec'08
	Study of binary mixtures of two liquid crystalline samples.	Indian Science Congress, Shillong, Meghalaya, 3-7, Jan'09
A Bhattacharjee	Specimen preparation in XRD (Expert talk)	Workshop on XRD and its applications, 4-6 Dec'08, NIT Silchar
	Data Analysis techniques (Expert talk)	
	Synthesis and Characterization of nanocrystalline ZnO in thin films	NCRAME'08, 20-21 Dec'08, NIT Silchar
	A C conductivity studies on Spray deposited ZnO thin films	Recent Progresses in Science, Karimganj College, 20-21, Dec'08
	Review of Dimeric liquid crystals	

Chemistry Department

S S Dhar	Mixed-ligand Complexes of peroxo-metals with Sulphur-Nitrogen ligands and their spectroscopic studies.	Recent progress in Physical sciences, Karimganj, 20-21 Dec'08
P Barman	A novel method for the preparation of electrophilic bivalent sulphur compounds and their reactions with electron rich compounds under microwave irradiation.	Recent progress in Physical sciences, Karimganj-20-2, Dec'08
	Mixed-ligand Complexes of peroxo-metals with Sulphur-Nitrogen ligands and their spectroscopic studies.	Recent progress in Physical sciences, Karimganj, 20-21 Dec'08
M Ahmaruzzaman	Adsorption Technique for the removal of Phenolic compounds from waste water using Low-cost adsorbents	Recent Progress in Physical Sciences, Karimganj, 20-21 Dec'08
Mathematics Department		
G Ramesh	Fractals and its applications in science and engineering	Recent Advances in Mechanical Engineering, NIT Silchar, 20-21 Dec'08.
Central Library		
K C Satpathy	Indore Library and Information Network (INDOLBINET)	SIS 2008. 5-6 Dec'08 at IIM Indore.

(e) Short Term Programs Organized at NIT Silchar / Acted as Recourse Person

Name of faculty	Title of Seminar organised	Date of Programme
Civil Engineering Department		
T Rahman	Earthquake Hazard and Disaster Management of North Eastern States of India	18-20 Oct,08
U. Kumar	National Workshop and Seminar on Engineering Materials & Equipments (NWEME -2008) jointly conducted by NIT Silchar & IPHE, India at NIT Silchar	15-16, Feb'08
P Rajbongshi	Pedagogy and Teaching Methodology Training Program, held at N.I.T. Silchar	8-16, Mar'09
Mechanical Engineering Department		
R. Gupta	National Workshop On Engineering Materials And Equipment	15-16, Feb'08
R. Gupta, R D Misra	AICTE-MHRD sponsored Summer Course on Fluid Dynamics & Its Applications	7-9, Jul'08
R. Gupta, K M Pandey, P K Patwari, R D Misra	Recent advances in Mech Engg.	20-21 Dec'08
Electronics and Communication Engineering		
U Baurah, R. H. Laskar and K L Baishnab	Short-term course on "Recent trends in wired and wireless communication (RTWWN'08)" held at NIT Silchar jointly organized by the department of ECE and the department of CSE,	24-28 Dec'08
R. H. Laskar, M. Paul and P Roy	Workshop on "Image Speech Signal and Processing (WISSP-08)" organized by ECE Dept in collaboration with CSE department, NIT Silchar.	17-19 Dec'08
R. H. Laskar	"Emerging research areas in VLSI" organized by department of ECE	22-24 Dec'08
Computer science and Engineering Department		

U Baruah et al.	Recent trends in wired and wireless communication and Networking, short-term course conducted jointly by ECE & CSE Deptt.	24-28, Dec'08
Ms. P Roy	Workshop on Image & Speech Signal Processing, conducted jointly by ECE & CSE Deptt.	17-19 Dec'08
Physics Department		
B Choudhury	Three day workshop on XRD and its applications held at NIT Silchar	4-6 Dec'08
A Bhattacharjee	Three day workshop on XRD and its applications held at NIT Silchar	4-6 Dec'08
	Frontiers of Engineering and Technology-Vision 2020 held at NIT Silchar	9-11 Nov'08
	Managerial Capacity Development programme for Faculty, By EQUATE, New Delhi; held at NIT Silchar	26-30 Sep'08
	Efficiency Enhancement programme for Ministerial and Technical Staff, By EQUATE, New Delhi; held at NIT Silchar	11-17 Nov'08
	Pedagogy and Teaching methodology for faculty by Centre for Personal Transformation, held at NIT Silchar	8-16 Mar'09,
	Efficiency Enhancement training for Ministerial and Technical Staff by Corporate Consultants, held at NIT Silchar	17-22 Mar'09
Chemistry Department		
A K Sil et al	Green-Science and Technology organised by Dept. of Chemistry, NIT Silchar.	

(f) Participation in Short Term Programmes/Seminars/Workshop

Name of faculty	Title of Paper	Date of Program
Civil Engineering Department		
U. Kumar	National Seminar on Recent Advances in Mechanical Engineering, held at NIT Silchar	20-21, Oct'08.
	National Seminar on Earthquake Hazard and Disaster Management of North Eastern States of India, held at NIT Silchar	18-20, Oct'08.
	National Workshop on Engineering Materials & Equipments (NWEME-2008) Jointly conducted by NIT Silchar & IPHE, NIT Silchar	15-16, Feb'08.
	National Seminar on Hydrocarbon Industry Growth-Prospect and Challenges in N.E. Region, Petrotech Society and IOCL, Guwahati	24-25, Apr'08
	National Workshop on X-Ray Diffraction and its applications, held at NIT Silchar	04-06, Dec'08
	National Workshop on Green Chemistry & Technology, held at NIT Silchar	06, Dec'08
	National Workshop on Image & Speech Signal Processing, held at NIT Silchar	17-19, Dec'08.
	Short term course on Fluid Dynamics & its Applications held at NIT Silchar	07-19, Jul'08
	Short term course on Recent Trends in Wired and Wireless Communication & Networking, held at NIT Silchar	24-28, Dec'08
Mechanical Engineering Department		
S Chatterjee	Short Term Program on Fluid Mechanics and its	Jul'08

	Application at NIT Silchar	
	Short term Course on 'Hydrogen Fuel and its Applications' held at Centre for Energy, IIT Guwahati under Quality Improvement Programme (QIP)	Sep'08
	Workshop on 'Green Science and Technology' held at Dept. of Chemistry, NIT Silchar	Dec'08
	National Seminar on 'Engineering of Software Products: Perspectives of Research and Applications' held under TEQIP, at NIT Durgapur	Jan'09
P K Patwari	Micromachining and Nanofabrication at JU, Kolkata	Aug'08
P L Choudhury	Workshop on Green Science and Technology	Dec'08
L Roy	Pedagogy and teaching Methodology Training Program	Mar'09
K Mukherjee	Pedagogy and teaching Methodology Training Program	Mar'09
	Advances in manufacturing management	June'08
Electrical Engineering Department		
L. C. Saikia	Induction training programme in REC Silchar	31-18 Aug'08
J. P. Mishra	"Pedagogy and Teaching Methodology" under faculty development programme – TEQIP, conducted by Centre for Personal Transformation, Kolkata, held at NIT Silchar	8-16 Mar'09
D. C. Das	National Workshop on "Emerging Research Areas in the field of VLSI Design (ERA-VLSI 2008)" held at NIT Silchar.	22-24 Dec'08,
	Workshop on Image and Speech Signal Processing (WISSP), NIT Silchar.	17-19, Dec'08
	"Pedagogy and Teaching Methodology" under faculty development programme – TEQIP, conducted by The Center for Personal Transformation, Kolkata, held at NIT Silchar	8-16 Mar'09
	Short Term Course on " Fuel Cell and Hydrogen Technology" Organized by Centre for Energy IIT Guwahati.	14-18, Sep'09.
C Bhattacharjee	"Emerging Research Areas in the field of VLSI Design (ERA-VLSI 2008)" held at NIT Silchar.	22-24 Dec'08
	"Pedagogy and Teaching Methodology" under faculty development programme – TEQIP, conducted by the Center for Personal Transformation, Kolkata, at NIT Silchar	8-16 Mar'09
Electronics and Communication Engineering Department		
K L Baishnab, B Shome, J Mehedi, S K Gupta	"Workshop on Image and Speech Signal Processing" organized by department of ECE in collaboration with the department of CSE, NIT Silchar Assam	17-19 Dec'08
M. Choudhury	"MHRD/AICTE sponsored winter school on Nanoparticle-science & Technology", held in the Deptt of Physics, NIT Durgapur	2-15, Jan'09
J Mehedi	"Engineering of Software Products: Perspective of Research and Applications" at NIT Durgapur,	19-21, Jan'09
M Paul K L Baishnab, R H Laskar	"Three day X-ray diffraction and its applications" organized by dept of Physics NIT Silchar	4 -6 Dec'08,
S K Gupta,	"Emerging research areas in VLSI" organized by	22-24 Dec'08

B Shome	Department of EE	
J Mehedi, B Shome.	"Pedagogy and Teaching Methodology " at Nit Silchar	8 -16 Mar'09
Mrs M Paul Mrs B Shome, S K Gupta, S Rai, J Mehedi	"Recent trends in Wire and wireless Communication and Networking" organized jointly by ECE and CSE Deptts. of NIT Silchar	24 -28 Dec'08

Physics Department

B Choudhury	Management Capacity Development Training with the assistance of Technical Education, N Delhi	26-30 Sep'08
	AICTE-MHRD sponsored Two week Summer Course on Fluid Dynamics & its Applications at NIT Silchar.	7-16, Jul'08
	National Seminar on Recent Progresses in Physical Sciences held at Karimganj College, Karimganj.	20-21 Dec'08.
	Workshop on X-ray diffraction and its applications held at NIT Silchar	4-6 Dec'08
A Bhattacharjee	Fundamentals of X-Ray diffraction ICDD, Pennsylvania, USA	2-6, Jun'08
	Managerial capacity development training organised by EQUATE , New Delhi & NITS,	26-30 Sep'08
	Pedagogy and Teaching Methodology organised by Centre for Personal Transformation, NITS	8-16 Mar'09
	AICTE-MHRD sponsored Two week Summer Course on Fluid Dynamics & its Applications held at NIT Silchar.	7-16, Jul'08

Chemistry Department

R Rano	"Environment Management, Testing and Monitoring "held in NIT Durgapur	7-11 Apr'08,
	"Green Science and Technology" held in NIT Silchar	6 Dec'08
	" Emerging Research Areas in VLSI-2008" held in NIT Silchar	22-24 Dec'08
	"Pedagogy and Teaching Methodology Training Programme" Conducted by the Centre for Personal Transformation at NIT, Silchar,	8-16 Mar'09
	Green-Science and Technology, held in NIT Silchar	6 Dec.2008
S S Dhar	Green-Science and Technology, held in NIT Silchar	6 Dec'08
	Fluid-Dynamics and its Applications, held in NIT Silchar	7-19 Jul'08
	Management Capacity Development Training, conducted by EQUATE in NIT Silchar	26-30 Sep'08
M Ahmaruzzaman	Green-Science and Technology, held in NIT Silchar	6 Dec'08
A K Sil	Management Capacity Development Training, conducted by EQUATE in NIT Silchar	26-30 Sep'08

Mathematics Department

G. Ramesh	Workshop on Image and Speech signal processing held in NIT Silchar	17-19 Dec'08
	Workshop on Green Science and Technology held in NIT Silchar	6, Dec'08.
	Pedagogy and Teaching methodology training programme	8-16, Mar'09.
M. Sen	Workshop on X-ray diffraction and its applications held in NIT Silchar	4-6, Dec'08
	Workshop on Image and Speech signal processing held in NIT Silchar	17-19, Dec'08
	Short term course on recent trends in wired and	24-28, Dec'08

	wireless communication and networking held in NIT Silchar	
	Pedagogy and Teaching methodology training programme held in NIT Silchar	8-16, Mar'09
	Summer Course on Fluid Dynamics & its application held in NIT Silchar	7 – 19, Jul'08
B Nath	Workshop on X-ray diffraction and its applications held in NIT Silchar	4-6, Dec'08
	Workshop on Image and Speech signal processing held in NIT Silchar	17-19, Dec'08
	Short term course on recent trends in wired and wireless communication and networking held in NIT Silchar	24-28, Dec'08
	Summer Course on Fluid Dynamics & its application held in NIT Silchar	7 – 19, Jul'08
	Management Capacity Development training Organized by EQUATE, New Delhi at NIT Silchar	26-30 Sep'08
S Roy	Workshop on X-ray diffraction and its applications	4-6, Dec'08
	Workshop on Image and Speech signal processing	17-19, Dec'08
	Short term course on recent trends in wired & wireless communication & networking	24-28, Dec'08
	Summer Course on Fluid Dynamics & its application	7 – 19, Jul'08

(g) Book written, Book reviewed, Paper reviewed in International/National Journals/Conferences/Seminars

Name of faculty	Title of Paper/Book	No of Papers/Details
U Kumar	Journal of Hazardous Materials (<i>Elsevier Journal</i>)	Manuscript No-HAZMAT-D-06-01302,00547R1, 01027R1
	The Korean Journal of Chemical Engineering	No-KJ2007-296
	Colloids and Surface B: Bio-interfaces (<i>Elsevier Journal</i>)	No – COLSUB-D-08-00145
	Biochemical Engineering Journal (<i>Elsevier Journal</i>)	No-BEJ-D-08-00274
	Desalination (<i>Elsevier Journal</i>)	DES-5236
P Rajbongshi	Journal of Transportation Engineering, ASCE.	
	International Journals of Pavement Research and Technology.	
	International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2008), CD-ROM, IIT Bombay, 2008	
K M Pandey	Reviewed a book on Mechanics of Materials in SI units by Ferdinand P. Beer, E. Russel Johnston Jr. and John T Dewolf adapted by N. Shiva Prasad.	Tata McGraw-Hill Publishing Company Limited, In 2008
	Written a chapter in the book entitled Research in Management and Technology by Dr. Aneet and Ramanjeet Singh, Gyan Jyoti Institute of Mangt and Technology, Mohali, Chandigarh on Human resource practices in private sector: a case study of Cadtrium engineering solution Pvt. Ltd.	This book was published by Deep and Deep Publications, New Delhi in 2008.

	Gurgaon, PP. 169-185, International Conference on modelling and simulation at Banff, Canada	Reviewed 04 papers
R D Misra	Int. Jour. on Energy Int. Jour. Of Energy Research WSEAS Conf and Jour	01 each.
R Gupta	FMFP	04
N Sinha	IEEE-TPWRS(USA) IEEE-TEC (USA) EPSR IET(IEE Proc., UK)	08 papers 01 02 02
M AHMARUZZAMAN	MICROSPORES AND MESOPOROUS MATERIALS JOURNAL OF HAZARDOUS MATERIALS JOURNAL OF APPLIED POLYMER SCIENCE CHEMICAL ENGINEERING JOURNAL JOURNAL OF HAZARDOUS MATERIALS JOURNAL OF APPLIED POLYMER SCIENCE CHEMICAL ENGINEERING JOURNAL FUEL PROCESSING TECHNOLOGY ENVIRONMENTAL SCIENCE AND TECHNOLOGY AFRICAN JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY JOURNAL OF COLLOID AND INTERFACE SCIENCE ENERGY & FUELS ARABIAN JOURNAL OF SCIENCE AND ENGINEERING SEPARATION SCIENCE AND TECHNOLOGY INTERNATIONAL JOURNAL OF PHYSICAL SCIENCES INDIAN JOURNAL OF CHEMICAL TECHNOLOGY WATER SCIENCE AND TECHNOLOGY	02 03 02 02 03 02 02 01 01 01 01 01 01 01 01 01 01 01
K C SATPATHY	Co edited the book "Recent Trends in Technical Education".	Published by ISTE, New Delhi in collaboration with McMillan India, 2008

Awards/Honours Received in International/National Level

Name of Faculty	Name of Awards/ Honours	Name of Organization /Institute
S Choudhury	Paper entitled 'Seismic Safety of Operational and Functional Components in Hospitals' bagged 'Dr Jai Krishna National Award'	Publication in CE Jour. of IEL, Vol. 89, Feb'09
R Gupta	Expert Member Examiner Board Member	AICTE, India UPSC, India Manipur Institute of Technology, Manipur
K M Pandey	Chaired a technical session in International conference on energy & environment, 19-21 Mar'08. Member of review committee for Modelling and Simulation	Taj Chandigarh, Chandigarh. MIT, Aurangabad, Mar'09
S Chatterjee	Best paper in Design section in Nat. Conf. on ETME'09	MIT Aurangabad, Mar'09

B. Choudhury	Chaired a Technical Session on Material Science in the National Seminar on Recent Progresses in Physical Sciences, December 20-21, 2008.	Karimganj College, Karimganj,
A K Roy	Expert Member	AICTE
K C Satpathy	SATKAL Young Librarian Award for 2008	SATKAL Trust & Punjab University, Chandigarh for contribution in the field of Library & Information Service profession.

11.0 ANNEXURES

11.1 INSTITUTE'S COUNCIL

Composition of the Council is circulated by the Ministry of Human Resources Development, Government of India from time to time.

11.2 BOARD OF GOVERNORS

Board of Governors (w.e.f April 2008 to June 2008)

Sl.No	Name & Designation	Position
1.	Prof. Gautam Barua, Director, IIT, Guwahati.	Ex- officio Chairman
2.	Prof. P.K. Banik, Director, NIT, Silchar.	Ex-officio Member Secretary
3.	Sri N.K. Sinha, IAS, Joint Secretary (Technical), MHRD, Deptt. of Higher Education, Shastri Bhavan, C-Wing, New Delhi.	Ex-officio Member
4.	Sri Alok Kumar, IAS, Commissioner & Secretary, Higher & Technical Education, Govt. of Assam, Dispur.	Ex-officio Member
5.	Dr. (Mrs.) Ratnabali Banerjee, Dy. Secretary, UGC, Kolkata.	Ex-officio Member
6.	Prof. Swadesh Gupta, Adviser (RID), AICTE, New Delhi.	Ex-officio Member
7.	Sri Samir Kr. Roy choudhury, Sibpur, Howrah.	-Ex-officio Member
8.	Sri Vinod Kr. Mittal, Managing Director, Ispat Industries Ltd., Mumbai.	-Ex-officio Member
9.	Sri Abhijit Barooah, Managing Director, Premier Cryogenics Ltd., Guwahati.	-Ex-officio Member
10.	Prof. D.N. Bhattacharjee, C.E. deptt, NIT Silchar.	-Faculty Member
11.	Dr. S. Baishya, A.P., ETE, NIT Silchar.	-Faculty Member
12.	Sri Saumitra Sh. Dutta, Silchar	-Alumni Member
13.	Sri S.K. Ray, Financial Adviser & Jt. Secretary, Deptt. of Hr. Education, MHRD, G.O.I., New Delhi.	-Special Invitee

Board of Governors (w.e.f. July, 2008 to October, 2008)

Sl.No.	Name & Designation	Position
1.	Prof. Gautam Barua, Director, IIT, Guwahati.	Ex- officio Chairman
2.	Prof. P.K. Banik, Director, NIT, Silchar.	Ex- officio Member Secretary
3.	Sri N.K. Sinha, IAS, Joint Secretary (Technical), MHRD,	Ex- officio Member

	Deptt. of Higher Education, Shastri Bhavan, C-Wing, New Delhi.	
4.	Sri H.M. Cairae, IAS, Principal Secretary, G.O.A., Hr. Edn.(Tech) deptt., Guwahati.	Ex-officio Member
5.	Dr. (Mrs.) Ratnabali Banerjee, Dy. Secretary, UGC, Kolkata.	Ex-officio Member
6.	Prof. Swadesh Gupta, Adviser(RID), AICTE, New Delhi.	Ex-officio Member
7.	Sri Samir Kr. Roy choudhury, Sibpur, Howrah.	Ex-officio Member
8.	Sri Vinod Kr. Mittal, Managing Director, Ispat Industries Ltd., Mumbai.	Ex-officio Member
9.	Sri Abhijit Barooah, Managing Director, Premier Cryogenics Ltd., Guwahati.	Ex-officio Member
10.	Prof. D. N. Bhattacharjee, C.E. deptt, NIT Silchar.	Faculty Member
11.	Dr. S. Baishya, A.P., ETE, NIT Silchar.	Faculty Member
12.	Sri Saumitra Sh. Dutta, Silchar	Alumni Member
13.	Sri S. K. Ray, Financial Adviser & Jt. Secretary, Deptt. of Hr. Education, MHRD, G.O.I., New Delhi.	Special Invitee

Board of Governors (w.e.f. November, 2008 to March, 2009)

Sl.No.	Name & Designation	Position
1.	Prof. Gautam Barua, Director,IT, Guwahati .	Ex- officio Chairman
2.	Prof. P. K. Bose, Director, NIT, Silchar.	Ex- officio Member
3.	Sri N.K. Sinha, IAS, Joint Secretary (Technical), MHRD, Deptt. of Higher Education, Shastri Bhavan, C-Wing, New Delhi.	Ex- officio Member
4.	Sri S. K. Ray, Financial Adviser & Jt. Secretary, Deptt. of Hr. Education, MHRD, G.O.I., New Delhi.	Ex- officio Member
5.	Sri H. M. Cairae, IAS, Principal Secretary, G.O.A., Hr. Edn.(Tech) deptt., Guwahati.	Ex-officio Member
6.	Dr. P. K. Goswami, Director of Technical Education, G.O.A., Guwahati.	Ex-officio Member
7.	Prof. S. Dhar, Head of Electronics Sciences, University of Calcutta, Kolkata.	Ex-officio Member
8.	Prof. Uma Bhattacharya, Head, Deptt. of Computer Science & Engineering, BESU, Sibpur, Howrah.	Ex-officio Member
9.	Dr. K.M. Pandey, Prof. & Head, M.E. deptt., NIT Silchar	Ex-officio Member
10.	Dr. (Mrs.) Basana Choudhury, A.P. & Head, Deptt. of Physics, NIT Silchar	Ex-officio Member
11.	Prof. Fazal A. Talukdar, Registrar, NIT Silchar.	Ex-officio Member Secretary

11.3 BUILDING & WORKS, FINANCE AND OTHER COMMITTEES

Building & Works Committee (w.e.f. April,2008 to October, 2008)

Sl.No.	Name & Designation	Position
1.	Prof. P. K. Banik, Director, NIT Silchar	Ex-officio Chairman
2.	Sri Madan Mohan, Director (NITs), Deptt. of Hr. Edn. MHRD, Shastri Bhavan, C-Wing, New Delhi.	Ex-officio Member
3.	Sri S. P. Singh, Supdt. Engineer, CPWD, Silchar.	Ex-officio Member
4.	Supdt. Engineer, APWD, Cachar Circle, Silchar	Ex-officio Member

5.	Prof. D. N. Bhattacharjee, Deptt. of C.E., NIT Silchar	Ex-officio Member
6.	Prof. F A. Talukdar, Registrar(i/c), NIT, Silchar.	Ex-officio Member-Secretary

Building & Works Committee (w.e.f. November, 2008 to March, 2009)

Sl. No	Name & Designation	Position
1.	Prof. P. K. Bose, Director, NIT Silchar	Ex-officio Chairman
2.	Sri Madan Mohan, Director (NITs), Deptt. of Hr. Edn. MHRD, Shastri Bhavan, C-Wing, New Delhi.	Ex-officio Member
3.	Sri S. P. Singh, Supdt. Engineer, CPWD, Silchar.	Ex-officio Member
4.	Supdt. Engineer, APWD, Cachar Circle, Silchar	Ex-officio Member
5.	Prof. D. N. Bhattacharjee, Deptt. of C.E., NIT Silchar	Ex-officio Member
6.	Prof. F A. Talukdar, Registrar(i/c), NIT, Silchar.	Ex-officio Member-Secretary

Finance Committee (w.e.f. April, 2008 to October, 2008)

Sl. No.	Name & Designation	Position
1.	Prof. Gautam Barua, Director, IIT, Guwahati	Ex-officio Chairman
2.	Prof. P. K. Banik, Director, NIT, Silchar.	Ex-officio Member
3.	Sri Madan Mohan, Director (NITs), Deptt. of Hr. Edn. MHRD, Shastri Bhavan, C-Wing, New Delhi.	Ex-officio Member
4.	Director (Finance), MHRD, G.O.I., New Delhi	Ex-officio Member
5.	Prof. D. N. Bhattacharjee, Deptt. of C.E., NIT Silchar	Faculty Member
6.	Dr. S. Baishya, Asst. Professor in ETE, NIT Silchar	Faculty Member
7.	Prof. F A. Talukdar, Registrar, NIT, Silchar.	-Ex-officio Member-Secretary

Finance Committee (w.e.f. November, 2008 to March, 2009)

Sl. No.	Name & Designation	Position
1.	Prof. Gautam Barua, Director, IIT, Guwahati	Ex-officio Chairman
2.	Prof. P. K. Bose, Director, NIT, Silchar.	Ex-officio Member
3.	Sri Madan Mohan, Director (NITs), Deptt. of Hr. Edn. MHRD, Shastri Bhavan, C-Wing, New Delhi.	Ex-officio Member
4.	Director (Finance), MHRD, G.O.I., New Delhi	Ex-officio Member
5.	Prof. D. N. Bhattacharjee, Deptt. of C.E., NIT Silchar	Faculty Member
6.	Dr. S. Baishya, Asst. Professor in ETE, NIT Silchar	Faculty Member
7.	Prof. F A. Talukdar, Registrar, NIT, Silchar.	Ex-officio Member-Secretary

Senate (w.e.f. April, 2008 to May, 2008)

Sl. No.	Name & Designation	Position
1.	Prof. P. K. Banik, Director, NIT, Silchar.	Chairman
2.	Prof. A. K. Dey, HOD, C.E. deptt., NIT, Silchar.	Member
3.	Prof. D. N. Bhattacharjee, C.E. deptt., NIT, Silchar.	Member
4.	Prof. P. P. Sahay, HOD, Physics, NIT, Silchar	Member
5.	Prof. A. K. Sil, Deptt. of Chemistry & Dean (Acad), NIT, Silchar.	Member
6.	Mr. B. Purkayastha, A.P. ETE, NIT, Silchar	Member
7.	Prof. S. Baishya, A.P., deptt., ETE, NIT, Silchar.	Member
8.	Dr. Nidul Sinha, A.P. & HOD, E.E., NIT, Silchar.	Member

9.	Prof. A. K. Roy, Deptt. E.E., & Dean (P&D), NIT, Silchar.	Member
10.	Prof. A. K. Sinha, Deptt. of E.E. & Dean (S.A.), NIT, Silchar.	Member
11.	Dr. Gurudas Das, HOD, H.S.S., NIT, Silchar.	Member
12.	Mr. Bijan Nath, HOD, Mathematics, NIT, Silchar.	Member
13.	Prof. K. M. Pandey, HOD (M.E.), NIT, Silchar.	Member
14.	Prof. Rajat Gupta, M.E. deptt. & Dean (SRC), NIT, Silchar.	Member
15.	Prof. A. C. Paul, A.P., M.E. deptt. & Dean (Acad.), NIT, Silchar.	Member
16.	Dr. R. D. Misra, A.P., M.E. deptt., NIT, Silchar.	Member
17.	Prof. A. K. Deb, Retd. Principal, J.E.C., Jorhat.	External Member
18.	Prof. (Dr.) S. K. Nandi Purkayastha, Retd. Principal, SMCH, Silchar.	External Member
19.	Prof. B. Dutta, Deptt. of School of Life Sciences and Environmental Studies, Assam University, Silchar	External Member
20.	Prof. F A. Talukdar, Registrar (i/c), NIT, Silchar	Member-Secretary

Senate (w. e. f. June, 2008 to October, 2008)

Sl. No.	Name & Designation	Position
1.	Prof. P. K. Banik, Director, NIT, Silchar.	Chairman
2.	Prof. A. K. Dey, HOD, C.E. deptt., NIT, Silchar.	Member
3.	Prof. D. N. Bhattacharjee, C.E. deptt., NIT, Silchar.	Member
4.	Dr. (Mrs.) Basana Choudhury, A. P. & HOD, Physics, NIT, Silchar.	Member
5.	Prof. A. K. Sil, Deptt. of Chemistry, & Dean (Acad.), NIT, Silchar.	Member
6.	Mr. B. Purkayastha, A.P. & HOD, CSE, NIT, Silchar	Member
7.	Prof. S. Baishya, Deptt. of ECE, , NIT, Silchar.	Member
8.	Prof. N Sinha, HOD, E.E., NIT, Silchar.	Member
9.	Prof. A. K. Roy, Deptt. E. E., & Dean (P&D), NIT, Silchar.	Member
10.	Prof. A. K. Sinha, Deptt. of E. E. & Dean (S.A.), NIT, Silchar.	Member
11.	Dr. G Das, HOD, H.S.S., NIT, Silchar.	Member
12.	Mr. B Nath, HOD, Mathematics, NIT, Silchar.	Member
13.	Prof. K.M. Pandey, HOD (M.E.), NIT, Silchar.	Member
14.	Prof. S. Choudhury, Deptt. of C.E., NIT, Silchar.	Member
15.	Prof. Rajat Gupta, M.E. deptt. & Dean (SRC), NIT, Silchar.	Member
16.	Prof. A. C. Paul, A.P., M.E. deptt., NIT, Silchar.	Member
17.	Dr. R D. Misra, A.P., M.E. deptt., NIT, Silchar.	Member
18.	Prof. A. K. Deb, Retd. Principal, J.E.C., Jorhat.	External Member
19.	Prof. (Dr.) S. K. Nandi Purkayastha, Retd. Principal, SMCH, Silchar.	External Member
20.	Prof. B. Dutta, Deptt. of School of Life Sciences and Environmental Studies, Assam University, Silchar	External Member
21.	Prof. F A. Talukdar, Registrar (i/c), NIT, Silchar	Member-Secretary

Senate (w.e.f. November, 2008 to March, 2009)

Sl. No.	Name & Designation	Position
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1.	Prof. P. K. Bose, Director, NIT, Silchar.	Chairman
2	Prof. A. K. Dey, HOD, C.E. deptt., NIT, Silchar.	Member
3.	Prof. D. N. Bhattacharjee, C.E. deptt., NIT, Silchar.	Member
4.	Dr (Mrs) B Choudhury, A.P & HOD, Physics, NIT, Silchar	Member
5.	Prof. A. K. Sil, Deptt. of Chemistry, & Dean (Acad), NIT, Silchar.	Member
6.	Mr. B. Purkayastha, A.P. & HOD, CSE, NIT, Silchar	Member
7.	Prof. S. Baishya, HOD, ECE, , NIT, Silchar.	Member
8.	Prof. N Sinha, HOD, E.E., NIT, Silchar.	Member
9.	Prof. A. K. Roy, Deptt. E.E., & Dean (P&D), NIT, Silchar.	Member
10.	Prof. A. K. Sinha, Deptt. of E.E. & Dean (S.A.), NIT, Silchar.	Member
11.	Dr. G Das, HOD, H.S.S., NIT, Silchar.	Member
12.	Mr. B Nath, HOD, Mathematics, NIT, Silchar.	Member
13.	Prof. K. M. Pandey, HOD (M.E.), NIT, Silchar.	Member
14.	Prof. S. Choudhury, Deptt. of C.E., NIT, Silchar.	Member
15.	Prof. Rajat Gupta, M.E. deptt. & Dean (SRC), NIT, Silchar.	Member
16.	Prof. A.C. Paul, A.P., M.E. deptt. NIT, Silchar.	Member
17.	Dr. R. D. Misra, A.P., M.E. deptt., NIT, Silchar.	Member
18.	Prof. A. K. Deb, Retd. Principal, J.E.C., Jorhat.	External Member
19.	Prof. (Dr.) S.K. Nandi Purkayastha, Retd. Principal, SMCH, Silchar.	External Member
20.	Prof. B. Dutta, Deptt. of School of Life Sciences and Environmental Studies, Assam University, Silchar	External Member
21.	Prof. F A. Talukdar, Registrar (i/c), NIT, Silchar	Member-Secretary

11.4 RESEARCH PROJECTS AND CONSULTATION JOBS

i) Consultancy Earnings

Gross consultancy earning during report year was = Rs. 44.33 lakhs
Institute Share including overhead charges was = Rs. 5.11 lakhs

ii) Major clients for consultancy jobs were:

- (a) Punj Lloyd Limited
- (b) Oil & Natural Gas Corporation
- (c) Hindustan Paper Corporation Ltd
- (d) Central Public Works Department
- (e) Ministry of Rural Development, GOI (PMGSY Scheme)
- (f) North East Frontier Railway
- (g) Meghalaya Government Construction Corporation Ltd
- (h) General Road Engineers Force
- (i) National Building Construction Corporation Ltd
- (j) Engineers India Limited
- (k) Simplex Concrete Piles Ltd
- (l) Assam University, Silchar

iii) Statement of MHRD/DST/MCIT/DSIR/AICTE Project Account:-

Date of Allotment	Name of the Project	Name of Project Co ordinator	Grants sanctioned	Interest earned	Total	Expendr. Up to 31.03.2009	Balance as on 31.03.2009
MHRD PROJECTS							
31.03.2005	Fault Detection, Diagnosis &	B K Roy	5,00,000	44,425	5,44,425	4,65,978	78,447

31.03.2005	Application of soft Computational	N Sinha	4,00,000	17,791	4,17,791	4,17,791	Nil
31.03.2005	Intelligent Instrumentation	S H Laskar	7,00,000	51,101	7,51,101	7,51,101	Nil
MCIT PROJECT							
08.11.2005 23.10.2008	SMDP-II of VSLI Design	S Rai/ S K Gupta	13,40,000 8,30,000	73,577	22,43,577	15,72,460	6,71,117
DST PROJECTS:							
15.11.2006 13.08.2008	Sediment of Flood Flow ...	P S Choudhury	14,00,000 6,19,250	37,017	20,56,267	16,81,147	3,75,120
02.11.2007	Management of Soil Land Resources ...	D Chakraborty	11,00,000	34,173	11,34,173	3,75,215	7,58,958
30.04.2008	ANN-GA-ANFIS Models....	P S Choudhury	4,00,000	6,618	4,06,618	1,56,615	2,50,003
16.06.2008	Solvent Free Oxidation	S.S. Dhar	4,75,000	5,490	4,80,490	1,49,846	3,30,644
DSIR PROJECT:							
11.11.2008	Management of TUC	F A Talukdar	4,00,000	7,050	4,07,050	70,439	3,36,611
AICTE PROJECTS: (RPS)							
31.03.2009	Experimental Investigation of	P K Patowari	20,00,000	Nil	20,00,000	Nil	20,00,000
31.03.2009	Sub-threshold Modeling	S Baishya	10,00,000	Nil	10,00,000	Nil	10,00,000
31.03.2009	Scour of Bridge Piper in Choshesive	A K Barbhuiya	17,00,000	Nil	17,00,000	Nil	17,00,000
31.03.2009	Characterisation of Flyash from Paper	Ruma Rano	20,00,000	Nil	20,00,000	Nil	20,00,000
31.03.2009	Appl. of Intelligent Techniques ...	N Sinha	5,00,000	Nil	5,00,000	Nil	5,00,000
31.03.2009	Non-Conventional Energy Systems	A K Roy	20,00,000	Nil	20,00,000	Nil	20,00,000
31.03.2009	Reduction of Stress Wave Amplitudes.	A K Dey	20,00,000	Nil	20,00,000	Nil	20,00,000
AICTE PROJECTS: (MODROBS)							
31.03.2009	Power Electronics & Electric Drives Lab	N Sinha	10,00,000	Nil	10,00,000	Nil	10,00,000
31.03.2009	Mod of DSP and Embedded Lab	K L Baishnab	12,00,000	Nil	12,00,000	Nil	12,00,000
31.03.2009	Mod of Structural Egg. Lab	A K Dey	15,00,000	Nil	15,00,000	Nil	15,00,000
31.03.2009	Geotechnical Egg. Lab	A K Dey	12,00,000	Nil	12,00,000	Nil	12,00,000
31.03.2009	Mod of Earthquake Egg. Lab	A K Dey	15,00,000	Nil	15,00,000	Nil	15,00,000
31.03.2009	Mod of GIS Lab under Civil Egg	A K Dey	15,00,000	Nil	15,00,000	Nil	15,00,000
31.03.2009	Industry	Gurudas Das	10,00,000	Nil	10,00,000	Nil	10,00,000

	Institute Partnership Cell						
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11.5 FACULTY POSITIONS (as on 31. 03. 09)

Department	Name of Faculty	Position	Remarks
Civil Engg.	Dr. D. N. Bhattacharjee	Professor	
	Dr. A. K. Dey	Professor.	HOD
	Dr. S. Choudhury	Professor.(CAS)	
	Dr. A. K. Das	Asstt. Prof	
	Dr. A. K. Barbhuiya	Asstt. Prof	
	Dr. U. Kumar	Asstt. Prof	
	Dr. A. K. Banik	Asstt. Prof	On lien
	Dr. R. K. Bhattacharjee	Asstt. Prof	On lien
	Dr. T. Rahman	Asstt. Prof	Appointed on lien vacancy
	Dr. A. I. Laskar	Asstt. Prof	Appointed on lien vacancy
	Dr. D. Chakrabarty	Asstt. Prof (CAS)	
	Dr. P. S. Choudhury	Asstt. Prof(CAS)	
	Dr. M. A. Ahmed	Asstt. Prof(CAS)	
	Mr. P. Rajbongshi	Lecturer (SG)	
	Mr. A. M. Choudhury	Lecturer (SS)	
	Mr. P. Roy	Lecturer (SS)	
	Miss N. Barthakur	Lecturer (SS)	
	Mr. Pallab Das	Lecturer	
Electrical Engg.	Dr. A. K. Roy	Professor	
	Dr. N. Sinha	Professor	HOD
	Dr. A. K. Sinha	Professor(CAS)	
	Dr. B. K. Roy	Asstt. Prof.	
	Mr. S. H. Laskar	Lecturer (SG)	
	Mr. N. B. Dev Choudhury	Lecturer (SS)	
	Mr. S. Choudhury	Lecturer	
	Ms. S. Deb	Lecturer	
	Mr. L. C. Saikia	Lecturer (SS)	
	Mr. T. Malakar	Lecturer	
	Mr. J. P. Mishra	Lecturer	
	Mr. D. Ch. Das	Lecturer	
	Mr. C. Bhattacharjee	Lecturer	
Electronics and Communication Engg.	Dr. F. A. Talukdar	Professor	HOD
	Dr. S. Baishya	Professor (CAS)	
	Mr. P. K. Paul	Asstt. Prof.	
	Mrs. M. Chakraborty	Lecturer (SG)	
	Mrs M. Paul	Lecturer(SG)	
	Mr K. L. Baishnab	Lecturer(SS)	
	Mr R. H. Laskar	Lecturer(SS)	
	Mr. S. Rai	Lecturer	
	Mr. S. K. Gupta	Lecturer	
	Mrs. Brinda Shome	Lecturer	
	Mr. J. Mehedi	Lecturer	
Computer Science and	Mr. B. Purkayastha	Asstt. Prof.	HOD
	Mr. A. Bhattacharjee	Lecturer(SS)	

Engineering	Mr. L. P. Saikia	Lecturer (SS)	
	Mrs. U. Baruah	Lecturer (SS)	
	Miss P. Roy	Lecturer	
	Mr. P. S. Neog	Lecturer	
	Mr. S. K. Borgohain	Lecturer	
	Mr. B. Dey	Lecturer	
	Mr. M. Jims	Lecturer	
	Mr. P. K. Nath	Lecturer	
Mechanical Engg.	Dr. R. Gupta	Professor	
	Dr. K. M. Pandey	Prof. (CAS)	HOD
	Dr. A. C. Paul	Professor (CAS)	
	Dr. K. Chakraborty	Asstt. Prof.	
	Dr. R. D. Misra	Asstt. Prof.	
	Mr. D. H. Das	Lecturer (SG)	
	Mr. A. K. Biswas	Lecturer (SS)	
	Mr. K. K. Sharma	Lecturer (SG)	
	Mr. P. L. Choudhury	Lecturer (SG)	
	Mr. P. K. Patowari	Lecturer (SG)	
	Mr. D. Datta	Lecturer (SS)	
	Mr. L. Roy	Lecturer (SS)	
	Mr. S. K. Pattanayak	Lecturer	
	Mr. S. Dutta	Lecturer	Released
	Mr. K. Mukherjee	Lecturer	
	Mr. P.C. Roy	Lecturer	
	Mr. S. Chatterjee	Lecturer	
Chemistry	Dr. A. K. Sil	Professor (CAS)	HOD
	Dr. S. S. Dhar	Lecturer	
	Dr. Ahmaruzzaman	Lecturer	
	Dr. P. Barman	Lecturer	
	Dr. R. Rano	Lecturer	
Physics	Dr. P. P. Sahay	Professor	HOD (Released from service)
	Dr. B. Choudhury	Asstt Prof. (CAS)	HOD (i/c) wef. 27. 2. 08
	Mr. A. Roy	Lecturer (SS)	
	Dr. S. S. Nath	Lecturer	Released from service on 08.12.08
	Dr. A. Bhattacharjee	Lecturer	
Mathematics	Mr. B. Nath	Lecturer (SG)	HOD (i/c)
	Mr. S. Roy	Lecturer (SS)	
	Dr. M. Sen	Lecturer	
	Dr. G. Ramesh	Lecturer	
Humanities & Social Sc.	Dr. G. Das	Asstt Professor	HOD
	Dr. R. Sanasam	Lecturer	
	Dr. N. B. Singh	Lecturer	
	Dr. A. K. Das	Lecturer	

11.6 ADMINISTRATIVE AND OTHER STAFF

(a) Chief Academic & Executive Officer

Position	Name	Remarks
Director	Prof. P. K. Banik	Up to 31.10.08
	Prof. P K Bose	w. e. f. 02.11.08

(b) Deans and Associate Deans

Position	Name
Prof. A. K. Sil, Professor, Chemistry.	Dean (Acd)
Prof. R. Gupta, Professor, Mechanical.	Dean (SRC)
Prof. A. K. Sinha, Professor, Elect.	Dean (SA)
Dr. R. D. Misra, Asstt. Prof., Mech.	Associate Dean (Admn).
Dr. A. K. Das, Asstt. Prof., Civil.	Associate Dean (Exam)
Dr. A. K. Barbhuiya, Asstt. Prof. Civil.	Associate Dean (SRC)

(c) Non-teaching Non-academic Staff

(i) Administrative Staff

Post	Name	Remarks
1. Registrar	Dr. F. A. Talukdar,	Addl. Responsibility
2. Dy Registrar (A/Cs)	Mr. S. K. Srivastava	
3. Asstt. Registrar (Acd)	Vacant	
4. Asstt. Registrar (Admn)	Vacant	
5. Asstt. Estate Engineer	Mr. D. Dey	
6. Sr Medical Officer	Vacant	
7. Lady Medical Officer	Dr. T. Simreiphy	
8. Stores Officer	Mr. S. Bhattacharjee	
9. Special Officer	Kept in abeyance	
10. Legal Adviser	(On retainer ship fees)	One each for Dist Court & High Court

(ii) Ministerial Staff

Post	Sanctioned strength	In position as on 31.3.09
1. Superintendent	3	1
2. P S to Director/Supdt MC	1	Nil
3. P A to Director/Steno Gr-II	1	1
4. Stenographer/Steno Gr-III	6	6
5. Sr Accounts Assistant.	1	1
6. Accounts Assistant	2	2
7. Supervisory Assistant	3	3
8. UD Assistant	18	15
9. LD Assistant	18	13
10. Chief Store Keeper	1	NIL
11. Store Keeper	5	4
Total	59	46

(iii) Non-teaching Academic Staff

Post	Sanctioned strength	In position as on 31.3.09
1. System Programmer	2	NIL
2. Workshop Superintendent	1	NIL
3. Librarian	1	On lien

4	Assistant Librarian	2	1
5.	Foreman	1	1
6.	Assistant Foreman	1	NIL
7.	Sports-cum- PT Officer	1	NIL
8.	Professor T & P	1	NIL
9.	Library Assistant	6	2
10.	Laboratory Assistant	2	2
11.	Sr Instructor/Tech Gr-A	4	1
12.	Jr Instructor/Tech Gr-B	15	15
13.	Asstt Instructor/Tech Gr-C	10	10
14.	Laboratory Attendant	21	19
15.	Workshop Attendant	10	5
16.	Library Attendant	4	2
17.	Class Room Bearer	1	1
Total		83	59

(iv) Technical and other Staff

	Post	Sanctioned strength	In position as on 31.3.09
1.	Pharmacist	1	1
2.	Nurse-cum-Midwife	1	Nil
3.	Jr Engineer	2	1
4.	Muharrier	2	1
5.	Electrician-cum-Wireman	2	1
6.	Wireman	2	1
7.	Carpenter (Estate)	1	NIL
8.	Draughtsman	4	4
9.	Tracer	2	2
10.	Plumber	3	2
11.	Driver	5	4
12.	Bus Conductor	2	2
13.	Pump Operator-cum-Mechanics	2	2
14.	Mason (Estate)	1	1
15.	Classifier (library)	1	Nil
16.	Store Attendant	2	2
17.	Plumber Attendant	1	Nil
18.	Medical Attendant	3	3
19.	Reneo Machine Operator	1	1
20.	Gate Keeper (library)	2	2
21.	Vehicle Cleaner	1	Nil
22.	Mason Helper	1	Nil
23.	Peon	25	21
24.	Head Watchman	1	Nil
25.	Watchman	24	12
26.	Duftary	4	Nil
27.	Guest House Cook	1	Nil
28.	Guest House Bearer	1	Nil
29.	Guest House Helper	1	Nil
30.	Cook (Hostel)	6	2
31.	Cook-cum-helper (Hostel)	64	59
32.	Mali	9	7
33.	Sweeper	13	8

Total	191	139
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11.7 STAFF MEMBERS DEPUTED/SPONSORED FOR TRAINING/LEARNING

(a) Teaching Staff deputed/sponsored for Training Programs in India.

Teaching Staff deputed for various Conference/Training programs are enlisted in the following table:

Name & Designation	Title of Training program	Organizing Institute	Duration
B. K. Roy, EE	Short Term Course on EI	IIT, Kgp	25 – 27 April'08.
T. Malakar, EE	Short Term Course on EI	IIT, Kgp	25 – 27 April'08.
Ms. R Rano, Ch	Workshop on EMTM	NIT, Durgapur	7 – 11 April'08
S. Baishya, ECE	Short Term Course on Technology-CAD (TCAD)	IIT, Kgp	4 – 7 Jun'08.
S. Choudhury, EE	Short Term Course on Technology-CAD (TCAD)	IIT, Kgp	4 – 7 Jun'08.
S. K. Gupta, ECE	Short Term Course on Technology-CAD (TCAD)	IIT, Kgp	4 – 7 June/08.
A. K. Das, HSS	Short Term Course on Equity Valuation & Emerging Trends in Indian Market.	IIT, Kgp	11 – 14 Jun'08
P. Das, CE	(i) Short Term Course on SMT & Practice (ii) Training Program at ESCI	(i) IIT, Kgp (ii) Hyderabad	(i) 22 – 25 May'08 (ii) 17-29 Nov'08
P. K. Patwari, ME	Nat. Workshop on MM& N.	Kolkata	29 -30 Aug'08
S. K. Pattanayak, ME	Contract Management on Cost Work Accountant of India	New Delhi.	11- 13 Aug'08
R. Sanasam, HSS	Training Course for Trainers in Soft Skills	Kochi, Kerala.	19 – 24 May'08
P. S. Choudhury, CE	Nat. Symp. on Hydrology	IIT, Delhi.	28 – 29 Aug'08
K. M. Pandey, Mech.	Int. Conf. on Energy & Env.	Chandigarh	19 – 21 Mar'09
N. Sinha, Elect.	Int. Conf. on TENCON- 2008	Hyderabad.	18 -21 Nov'08
M Jims, CSE	Training Program at ESCI	Hyderabad	17-29 Nov'08
S. K. Pattanayak, ME	Training Program at ESCI	Hydrabad	17-29 Nov'08
K. L. Baishnab, ECE	Short Term Course.	IIT, Guwahati	22 – 26 Sep'08
R. D. Misra, Mech.	(ii) MCDT Programme (ii) Nat. Conf. on NCRSE-08	(i)MDI, Gurgaon (ii) IIT, Madras	(i) 3 – 8 Nov'08 (ii) 8 – 10 Jan'09
P. L. Choudhury, ME	Nat. Conf. on Mechanism. Science & Tech.	NIT, Hamirpur	13 – 14 Nov'08
P. Rajbangshi, CE	Int. Conf. & Workshop on TIPMDC	IIT, Mumbai	3 – 6 Dec'08
D. C. Das, EE	Int. Conf. on Advances in ME	SVNIT, Surat	15 – 17 Dec'08.
A. K. Biswas, ME	ISTE Nat. Annual Conv. on IFEES.	KIIT, Bhubaneswar	19 – 21 Dec'08
J. Mehdi, ECE	(i) Nat. Conf. on Computing & Communication. (ii) Workshop on Engg. of S/W Product.	(i) Burdwan (ii)NIT, Durgapur	(i) 2 – 4 Jan'09. (ii) 19 -21 Jan'09
S. Chatterjee, ME	(i) Workshop on Engg. of S/W Product. (ii) Nat. Conf. on Energy	(i)NIT, Durgapur (ii) Ahmedabad	(i) 19 -21 Jan'09 (ii) 20 – 21 Mar'09

	Trends in ME (iii) Nat. Conf. on Energy Trends in ME	(iii) Aurangabad	(iii) 5 – 6 Mar'09
S. H. Laskar, EE	Nat. Workshop on Power Quality	Nasik	31Jan – 2 Feb'09
A. K. Dey, CE	Indian Geo-technical Conference (IGC)	Bangalore	17 – 19 Dec'08
U. Kumar, CE	Int. Conf on Energy & Env.	Chandigarh	19 – 21 March'09
R. Gupta, ME	Nat. Workshop on Composite Materials & Appln.	Coimbatore	6 th Jan'09
M C Choudhury, ECE	Winter School.	NIT, Durgapur	2 – 15 Jan'09
S. Rai, ECE	Short Term Course.	MNNIT, Allahabad	12 – 24 Jan'09.

(b) Teaching Staff deputed/sponsored for Training Programmes Abroad.

Name & Designation	Title of Training program	Organizing Institute	Duration
S. Baishya, ECE	Int. Conf.-on Micro Electronics	University of NIS, Serbia	11-14 May'08
A. Bhattacharjee, Physics	Int. Centre of Diffraction Data on X-ray powder Diffraction	Pennsylvania, USA	2-13 June'08
A. I. Laskar, CE	Int. Conf. on RBHPC with Rice Husk Ash	Tokyo, Japan	27-29 Oct'08
P. K. Patowari, ME	Short term Int. Research Training Prog.	Oklahoma, USA	6-18 Oct'08
B. K. Roy, EE	Training programme in areas of FDI in Control Theory	Univ of Duisbarg Essen Germany	15 May-15 Jul'08
L. C. Saikia, EE	Australian Universities Power Engg. Conf. (AUPEC)	Sydney	14-18 Dec'08
D. Chakraborty, CE	Research Training Program on Ground Water Pollution Management/Water Resources Development	Purdue University, USA	23 June - 22 Aug'08
P. K. Bose, Director	To visit M.E. dept. at North Dakota State University	North Dakota	15-26 Dec'08
R. Gupta, ME.	Int. Conf. EWEC-2009	France	16-19 Mar'09

(c) Non teaching staff members deputed/sponsored for Training/Learning Programmes.

Staff members deputed for various training programmers which are enlisted in the following table:

Name & Designation	Title of Training programme	Organizing Institute	Duration
S. K. Srivastava, Dy. Registrar (A/C)	Contract Management	Institute of Cost & Work Accountant of India. New Delhi.	11-13 Aug'08
P. Dhar, Sr. A/C Asstt.	To attend IRD	Shirdi, Maharastra	16-19 Dec'08
N. Chakraborty, A/C Asstt.	To attend IRD	Shirdi, Maharastra	16-19 Dec'08

11.8 SCHOLARSHIPS AND AWARDS

Students admitted in the UG programmes of this Institute avail various type of scholarships from different outside sources. Apart from those outside sources, the Institute also awards scholarship to its students limited to 25 per cent of annual intake. List of the scholarships availed by our students during the period under report is given hereunder.

Sl. No.	Name of Scholarship/Awarding Authority	Number of Recipients
1.	NCERT Scholarship	04
2.	NEC Scholarship	44
3.	U G C Scholarship	02
4.	D T E, Assam	08
5.	Integrated Tribal Dev. Project	14
6.	Minority Scholarship, Assam	04
7.	National Institute of Technology, Silchar	26
8.	West Bengal State Scholarship	01
9.	Himachal State Scholarship	07
10.	Madhya Pradesh Scholarship	02
11.	Andhra Pradesh Scholarship	02
12.	Uttar Pradesh Scholarship	05
13.	Meghalaya State Scholarship	03
14.	Nagaland State Scholarship	05
15.	Arunachal Pradesh State Scholarship	01
16.	Tripura State Scholarship	07
17.	Bihar State Scholarship	04
18.	Chhatisgarh State Scholarship	01
19.	ICCR Scholarship	29
20.	Indian Oil	05
21.	Institutional Assistanceship (M. Tech./Ph. D.)	18
TOTAL		192

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

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

11.9 TRAINING AND PLACEMENT STATISTICS

A total of 290 jobs were offered in the campus recruitment process by 38 different organizations during 2008-09 and 187 students were placed in different organizations during the period of reporting. The details are as given below:

Companies	CE	ME	EE	ECE	CSE	Total
TCS [March 29]	5	6	12	19	22	64
INFOSYS [April 5]	1	3	3	1	2	10
WIPRO [April 8]	2	6	5	8	1	22
SATYAM [April 12]	2	2	1	4	2	11
ASHOK LEYLAND [April 24]	-	0+[2]	-	-	-	0+[2]

SYNTEL [May 15]	-	-	[3]	[3]	1+[6]	1+[12]
TATA POWER [May 16]	1	2	3	1	-	7
ABCI [May 19]	3	-	-	-	-	3
L & T - HM [July 26]	-	6	-	-	-	6
JOHN DEERE [August 2]	-	2	-	-	-	2
TELCON [August 3]	-	1	-	-	-	1
CUMMINS [August 5]	-	2	-	-	-	2
L & T - ECC [August 7]	5	2	-	-	-	7
IOCL [August 9]	[3]	1+[3]	1+[3]	-	-	2+[9]
NTPC [August 18]	-	1+[6]	2+[3]	1+[4]	-	4+[13]
CSC	-	-	-	-	1+[7]	1+[7]
VEDANTA [August 23]	-	2	2	-	-	4
TCE [August 24]	1	2	1	-	-	4
MECON [August 28]	2+[1]	3+[4]	1	-	-	6+[5]
CAPGEMINI [September 30]	1	2+[2]	[1]	[1]	[1]	3+[5]
CROMPTON GREAVES	-	[3]	[2]	-	-	0+[5]
SASKEN	-	-	-	[1]	[2]	0+[3]
AREVA	-	-	1+[3]	-	-	1+[3]
SIMPLEX [October 22]	5	-	-	-	-	5
DRDO [October 22]	-	[1]	-	[3]	[1]	0+[5]
ABCI [November 22]	4	5	-	-	-	9
PUNJ LLOYD [November 25]	-	1	-	-	-	1
EIL [November 28]	[1]	[1]	-	-	-	0+[2]
ITDC	[1]	-	-	-	-	0+[1]
PATEL ENGINEERING	1+[1]	[1]	-	-	-	1+[2]
SEW CONSTRUCTIONS		[4]	[2]	-	-	0+[6]
POWER GRID	[2]	-	1+[4]	1	-	2+[6]
OIL	-	[2]	-	1+[4]	-	1+[6]
INGERSOLL RAND	-	[2]	-	-	-	1+[2]
HPCL	2	2	-	1	-	5
ASEB	-	-	2+[3]	-	-	2+[3]
FIBCOM	-	-	-	[4]	-	0+[4]
Total Number Placed:-	35	53	35	37	29	187