



**ANNUAL REPORT
AND
AUDITED ACCOUNTS
2023-24**

**NATIONAL INSTITUTE OF TECHNOLOGY
SILCHAR**



Contents

Sl. No.	Topic	Page No.
	From the Director's Desk	1
	Mission	2
	Vision	2
	Objectives	2
	<i>Nit Silchar at a glance</i>	3
01	INTRODUCTION	
	Historical Background	12
	Location	13
	Campus	13
02	COUNCIL, BOG AND OTHER COMMITTEES	
	The Council	14
	Board of Governors	15
	Finance Committee	15
	Building and Works Committee	15
	The Senate	16
	Internal Complaints Committee (ICC)	16
	Deans and HODs	17
03	EDUCATION SYSTEM	
	Undergraduate (B.Tech)	19
	Postgraduate (M.Tech/ M.Sc/ MBA)	20
	Research Programme (Ph.D)	20
	Academic Programmes	21
	Enrolment	22
	Admission Statistics	25
	Awards	31
	Examination Details	33
04	PLACEMENT STATISTICS	36
05	DEPARTMENTS	
	Civil Engineering	46
	Mechanical Engineering	74
	Electrical Engineering	113
	Computer Science & Engineering	199
	Electronics & Instrumentation Engineering	231
	Mathematics	239
	Physics	251
	Chemistry	261
	Humanities & Social Sciences	293

	Management Studies	301
06	ACADEMIC CENTRES/ CELLS	
	Central Computer Centre	313
	Central Library	316
	CDAC	321
	Supercomputing Centre	
	Institute Innovation Council (IIC)	323
	Hindi Cell	331
07	STUDENTS' ACTIVITIES	
	Scholarship / Assistantship	339
	NCC	353
	NSS	369
08	INFRASTRUCTURE AND AMENITIES	
	Estate	375
	The Hostels	379
	Vehicle Management	382
	Institute Health Centre	383
	Kendriya Vidyalaya	386
	KIDS-NITS	388
	Sports Complex & Gym	388
	Guest House	388
	Post Office	388
	Bank and ATMs	389
	Shopping Complex	389
	Cafeteria	389
09	RESEARCH AND CONSULTANCY	
	Research Development	390
	Sponsored Research Project	390
	Developmental Project	397
10	STAFF POSITION	398
11	GLIMPSES OF ANNUAL ACTIVITIES	402
12	CORPORATE SOCIAL RESPONSIBILITIES	
	Gyansagar	412
13	ACCOUNTS	417
	Statement of Accounts	

From The Director's Desk

It gives me immense pleasure to present the Annual Report of the National Institute of Technology Silchar, Assam, for the academic year 2023-2024. As one of the premier institutions in India, NIT Silchar has continued to set benchmarks through its relentless pursuit of excellence by the faculty, staff, students, and stakeholders in the domains of education, research, and innovation.

Currently, the Institute is home to 4916 students, including undergraduate, postgraduate, and research scholars, with a notable representation of international students. It is a matter of immense pride that in the National Institutional Ranking Framework (NIRF) 2024, NIT Silchar secured the 40th position among all engineering institutes and the 92nd position among all universities in India. Additionally, the Institute was placed in the 401-450 rank band under the QS Asia ranking 2024 and secured 178th position in THE Asia University ranking 2024. Furthermore, NIT Silchar achieved an impressive milestone in the UI GreenMetric World University Rankings 2023, being ranked 198th globally and 5th among Indian universities, reflecting our commitment to sustainability and environmental stewardship.

Research and innovation have always been at the core of NIT Silchar's mission to address real-world challenges and contribute to national development. In the financial year 2023–2024, the Institute received 28 R&D-funded projects and undertook 53 consultancy assignments,



reflecting the institute's growing reputation as a hub for cutting-edge research and industry collaboration. It is also noteworthy that five out of six undergraduate programs and 11 postgraduate programs are accredited by the National Board of Accreditation (NBA). Efforts are already underway to secure accreditation for the remaining programs in the near future.

I extend my heartfelt gratitude to the Ministry of Education (MoE) and the State Government of Assam for their unwavering support and encouragement. I am equally grateful to all our stakeholders – the members of BOG, FC, BWC, Senate, faculty, staff, students, and alumni of NIT Silchar whose collective efforts have made this year one of remarkable achievements and milestones. Together, we are striving to scale new heights and uphold the legacy of NIT Silchar as a beacon of knowledge, innovation, and excellence.

Prof. Dilip Kumar Baidya
Director, NIT Silchar

**Mission:**

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

Vision:

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

Objectives

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



NIT SILCHAR AT A GLANCE

RANK

Nirf Rank 2024	40 th in Engineering 92 nd in Overall
QS Asia ranking 2024	401-450 rank band
QS southern Asia ranking 2024	106 th
THE Asia University ranking 2024	178 th
Greenmetric ranking 2023	198 th in Overall world University Ranking & 05 th among Indian Universities

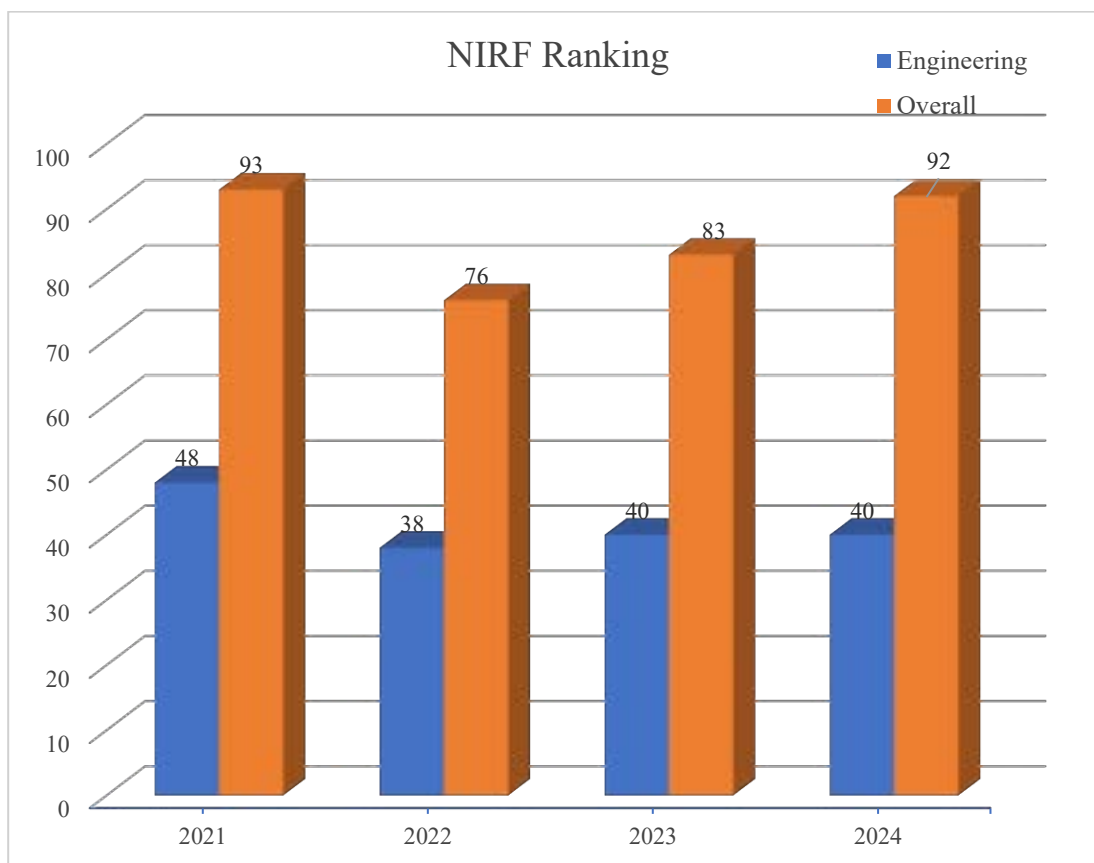


Fig.1: National Institutional Ranking Framework (NIRF-Engineering) of NIT Silchar



DEPARTMENTS

B.Tech	M.Tech	M.Sc	MBA	Ph.D
■	●	●	●	▲
Engineering				
Civil Engineering	■	●		▲
Mechanical Engineering	■	●		▲
Electrical Engineering	■	●		▲
Electronics & Communication Engineering	■	●		▲
Computer Science & Engineering	■	●		▲
Electronics & Instrumentation Engineering	■	●		▲
Science				
Physics		●		▲
Chemistry		●		▲
Mathematics		●		▲
Humanities and Management				
Humanities				▲
Management Studies		●		▲

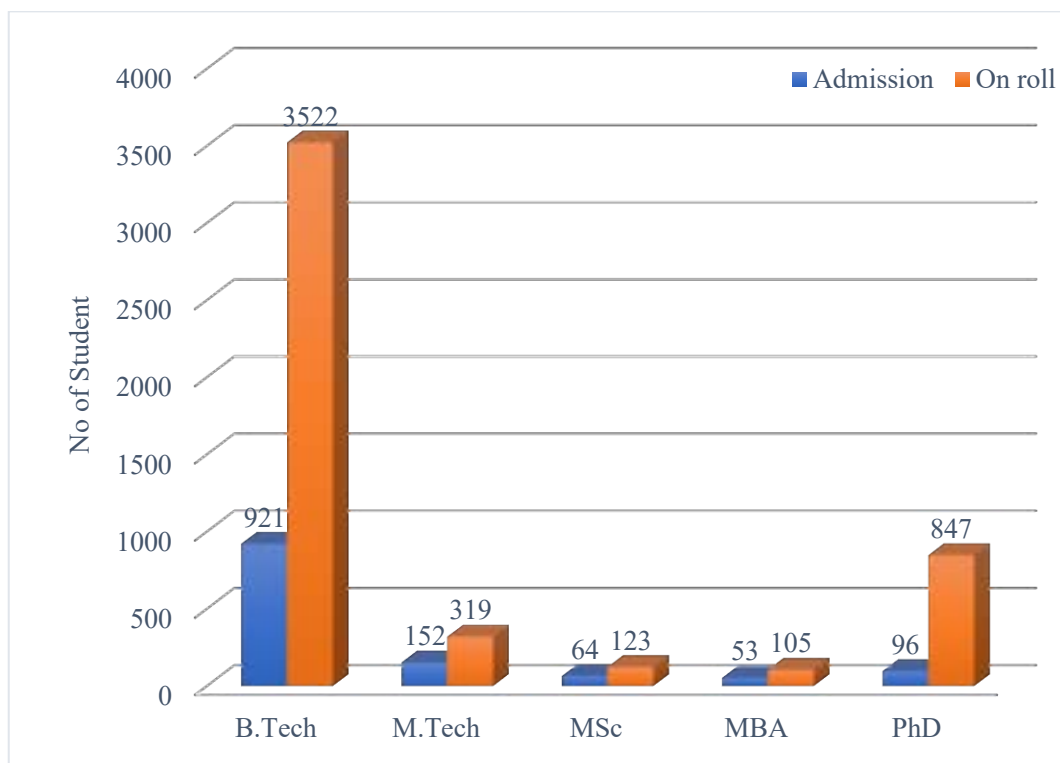


Fig.2: Student-Admissions and On-Roll during 2023-24.

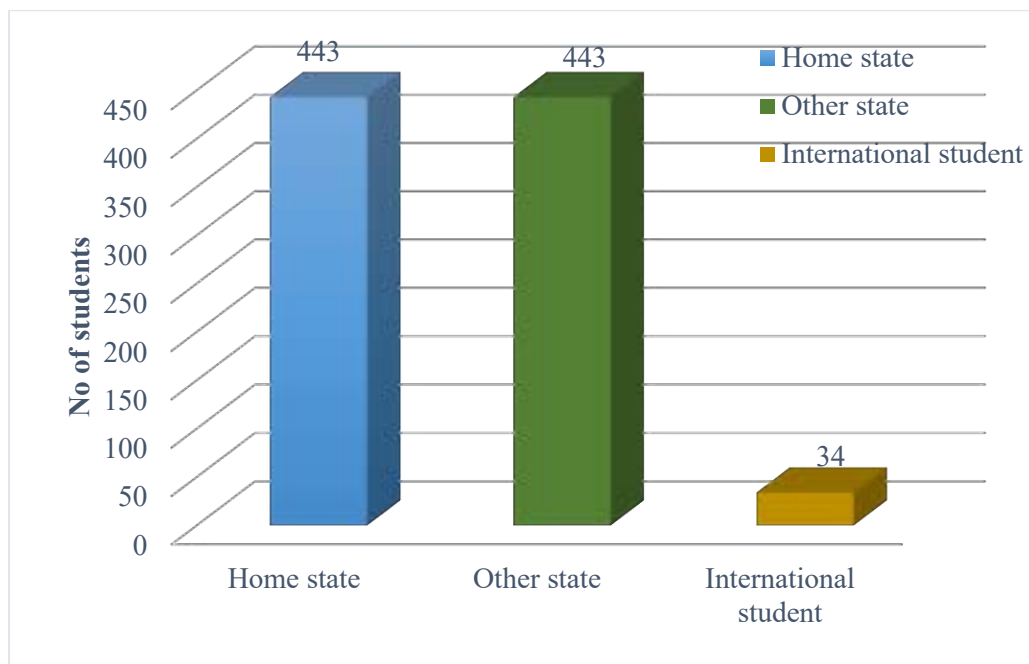


Fig.3: Home state, Other state and International distribution of student admitted in B.Tech program 2023-24

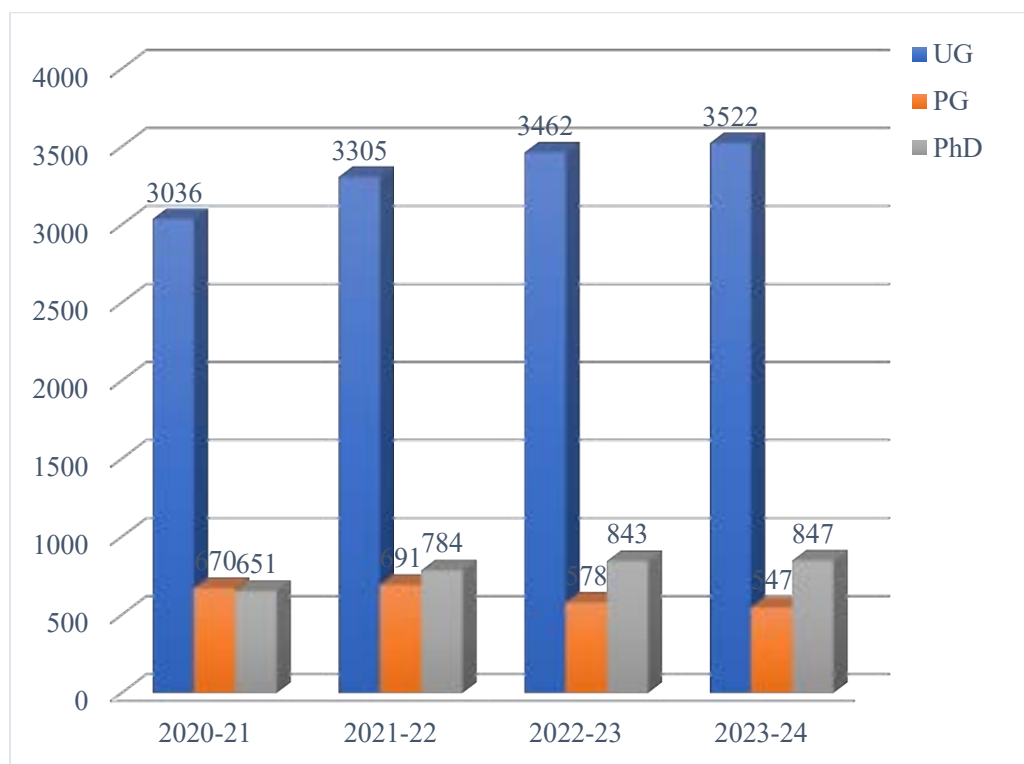


Fig.4: Students enrolment in (UG/PG/PhD) during the last four year

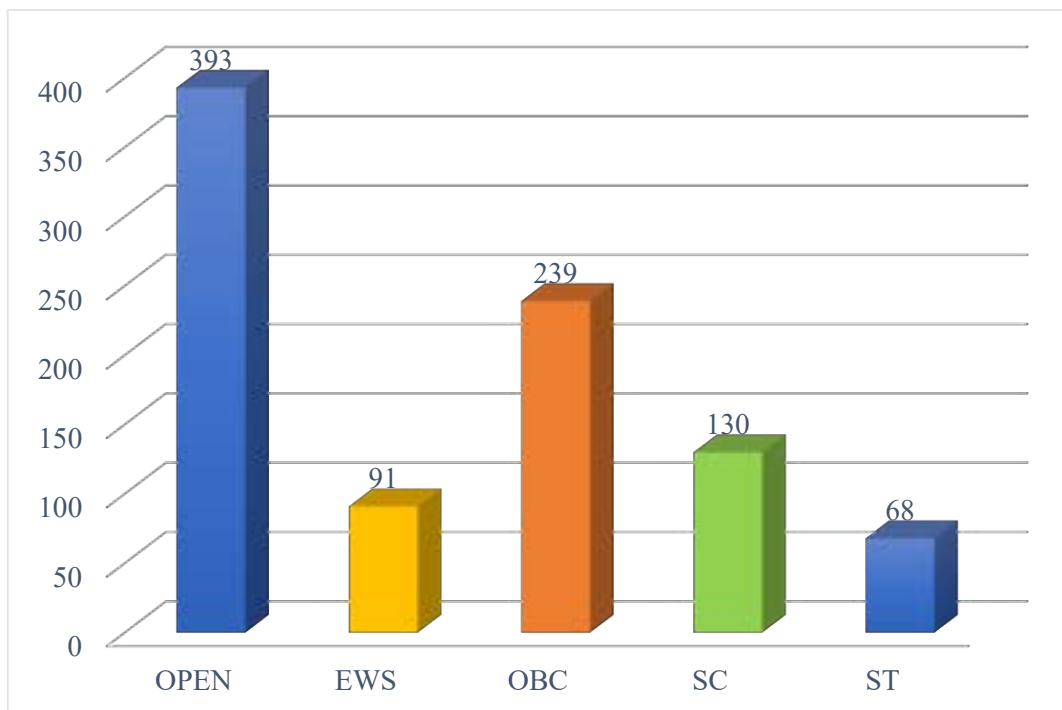


Fig.5: Category-wise admission counts of UG students in 2023-24

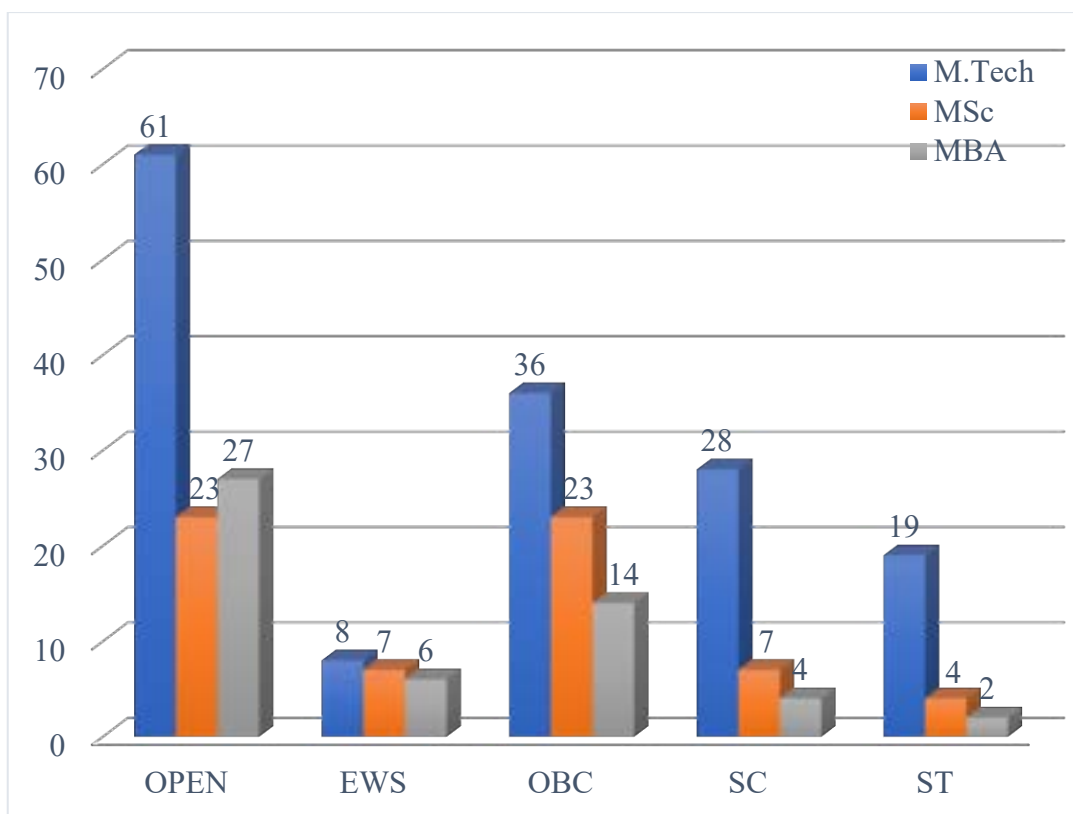


Fig.6: Category-wise admission counts of PG students in 2023-24

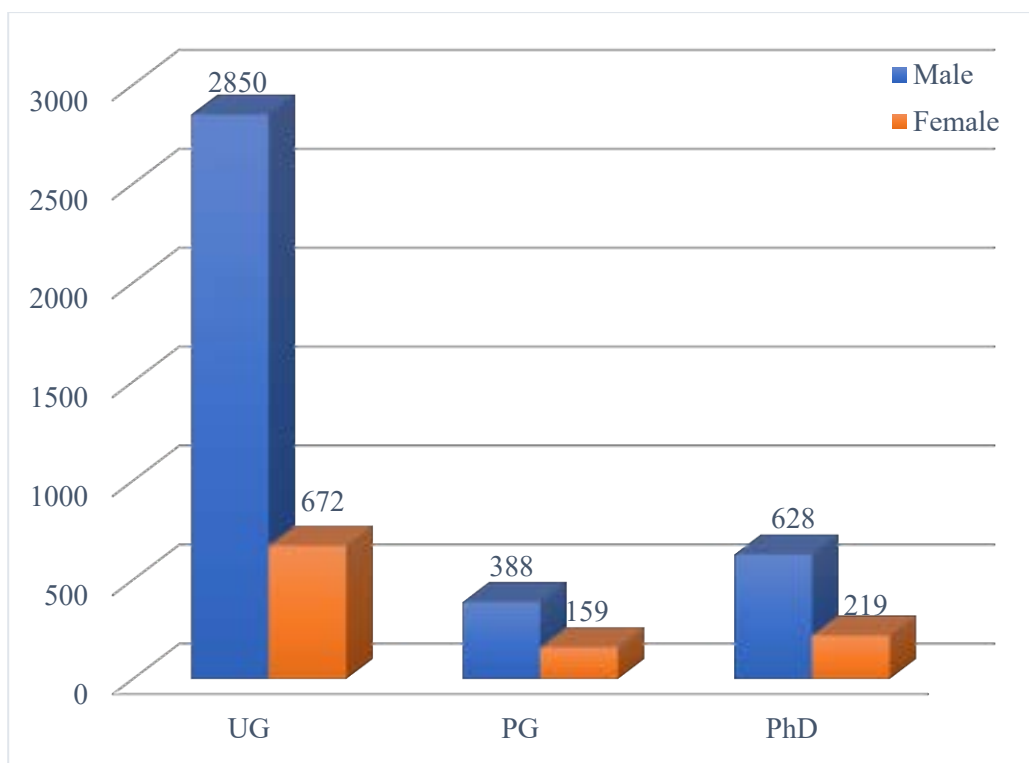


Fig.7: Gender distribution across different programmes

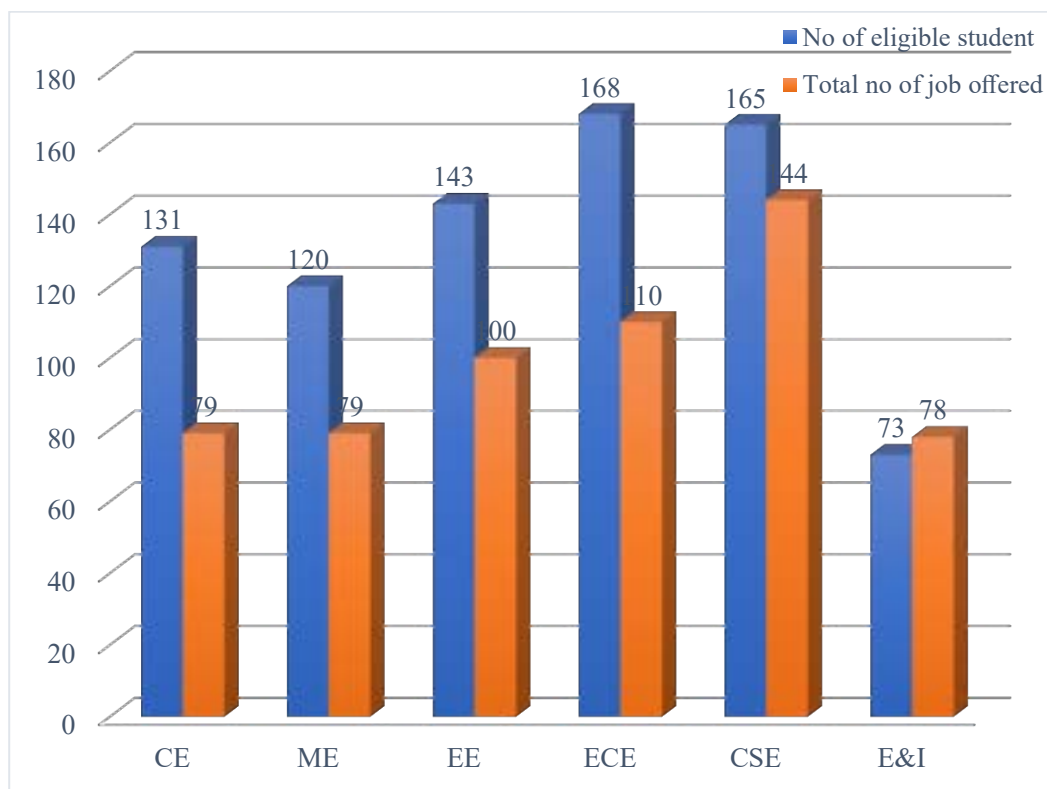


Fig.8: Placement statistics of B.Tech students in 2023-24

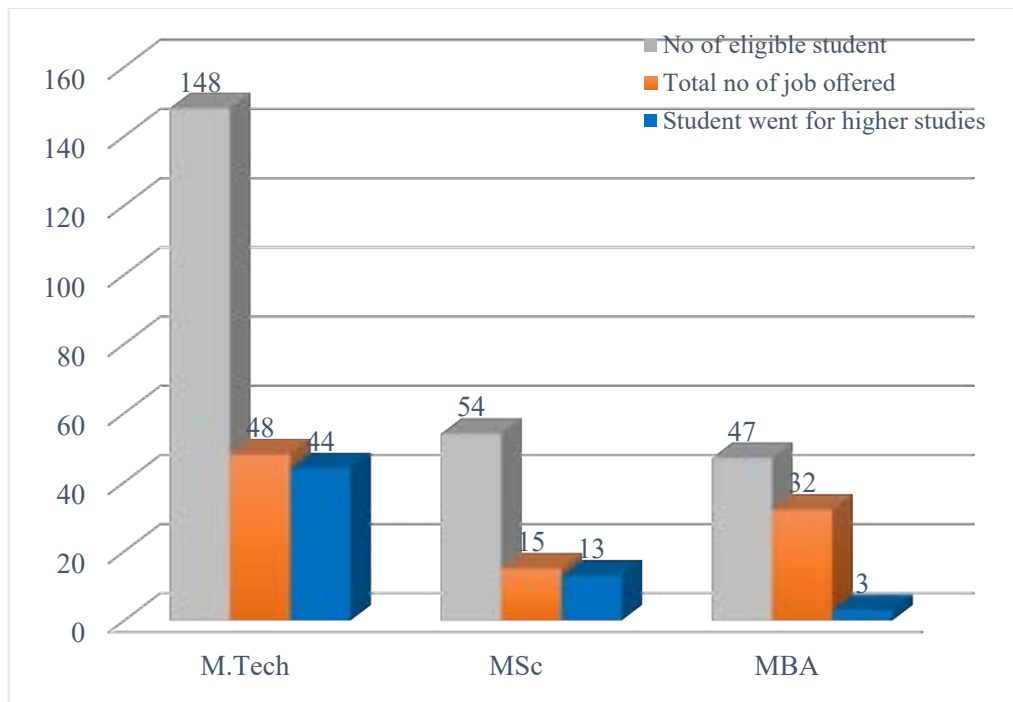


Fig.9: Placement statistics of PG students in 2023-24

PUBLICATIONS

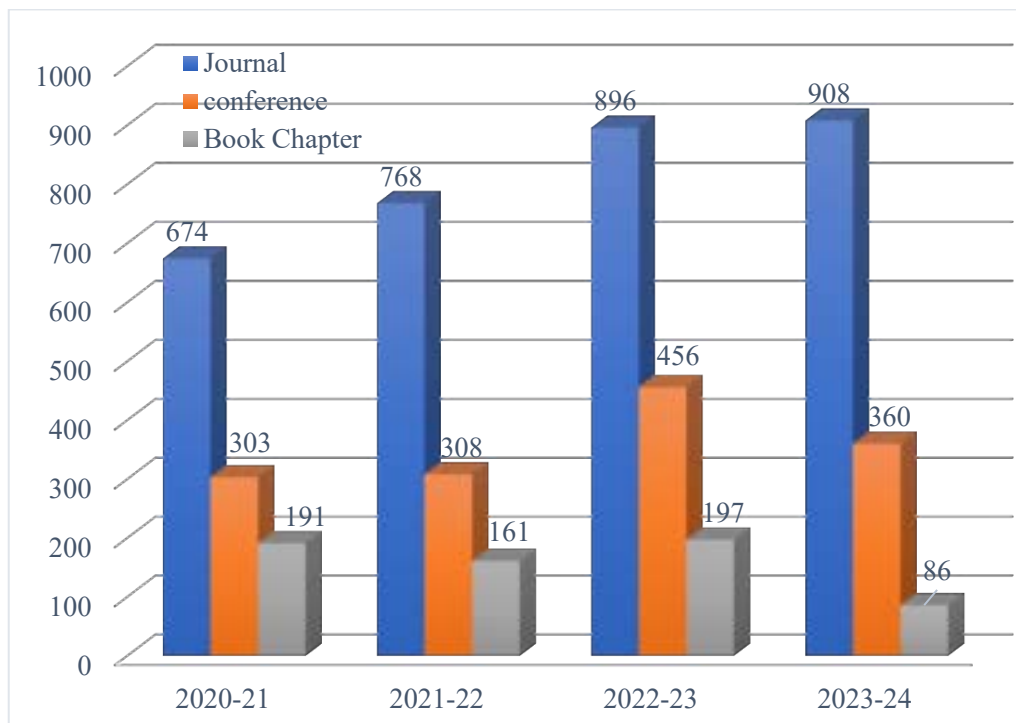


Fig.10: Publication details of NIT Silchar during last four year

LIBRARY

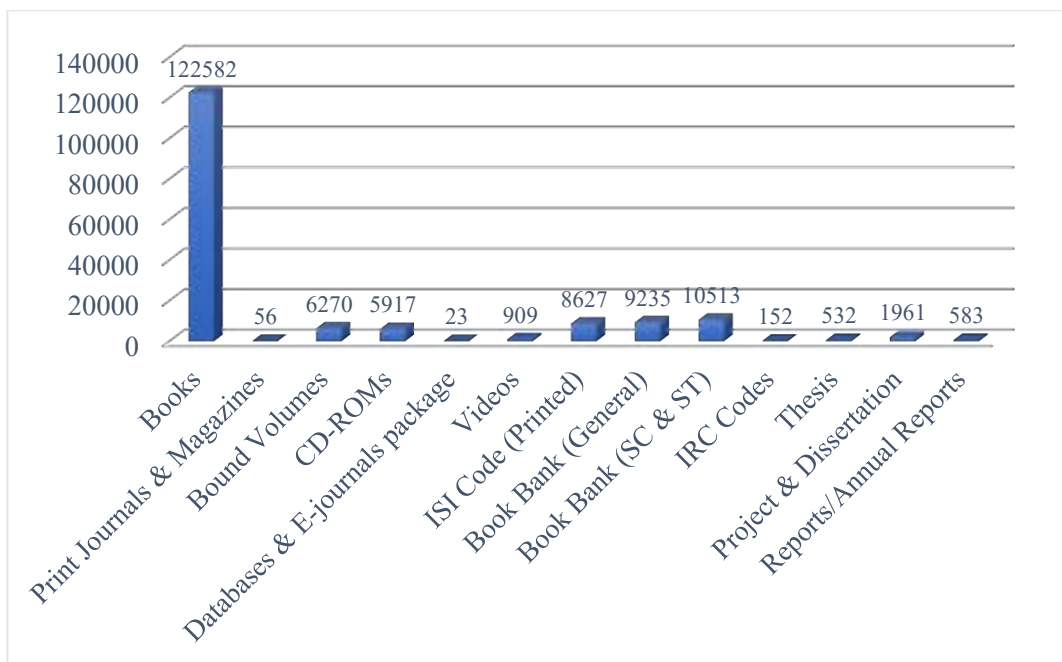


Fig.11: Library resource statistics during 2023-24

FACULTY/STAFFS

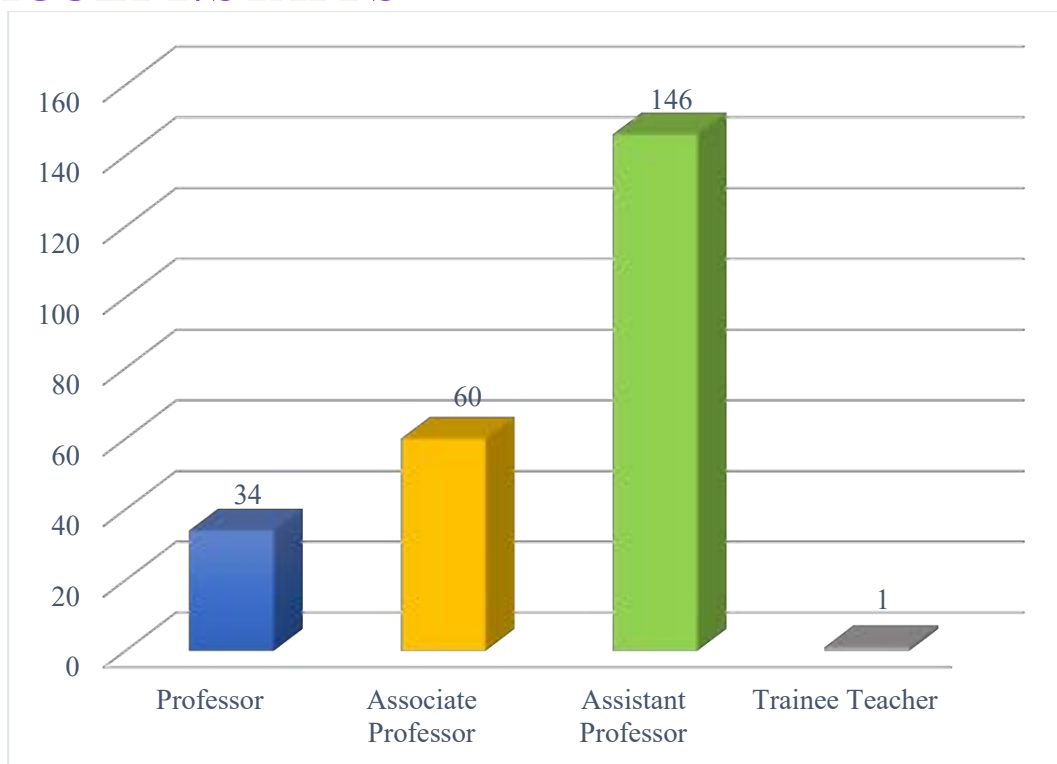


Fig.12: Faculty in position during 2023-24

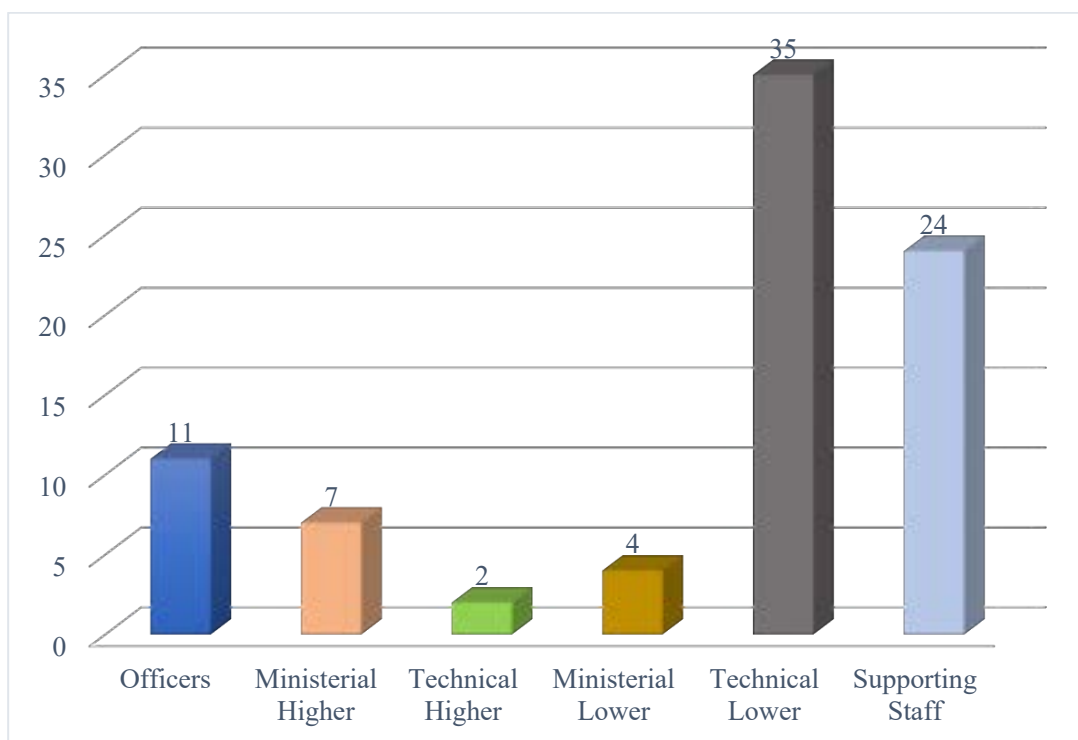


Fig.13: Non-teaching staff in position during 2023-24

FINANCE

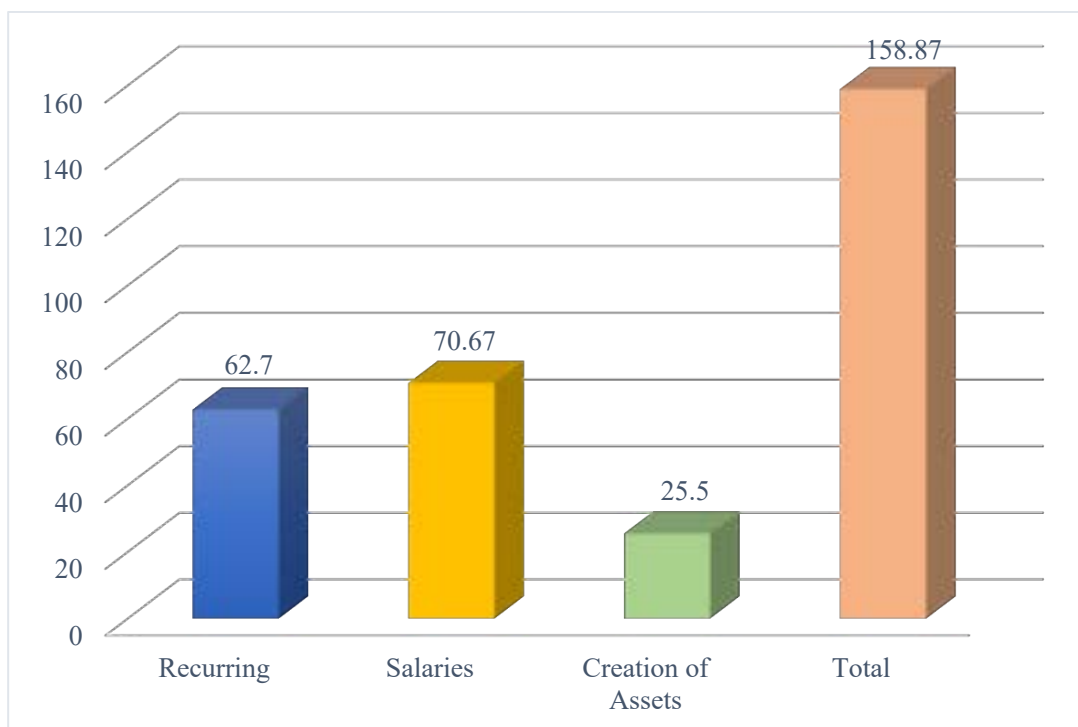


Fig.14: Total availability of fund during the year 2023-2024 (In Crores)

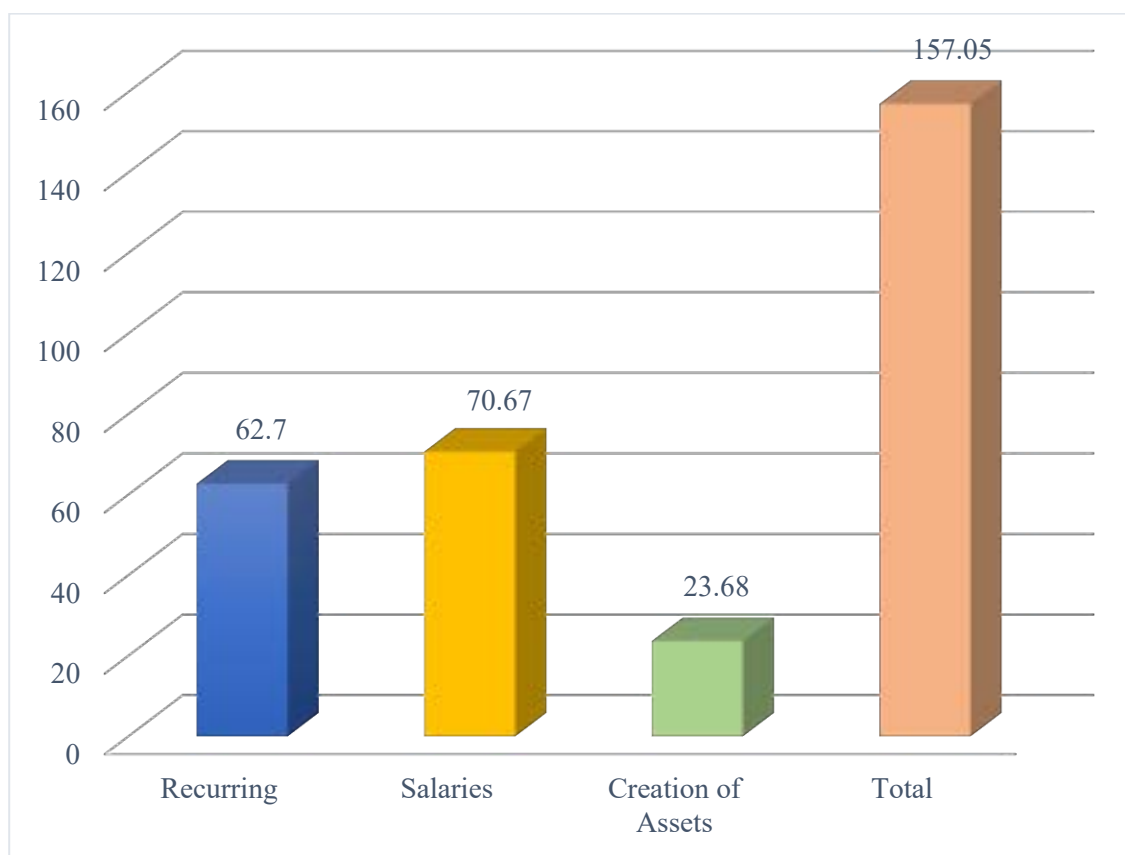


Fig.15: Total funds utilized during the year 2023-2024 (In Crores)



Introduction

Historical Background

In the fifties, the Government of India decided to establish Regional Engineering Colleges (RECs) under the Quality Technical Education Policy – one each in every major state – with 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 considered as the flag bearer of Northeast India and so in the year 1967, the 15th REC was officially established in Silchar. However, it took almost a decade for REC Silchar to start its academic programmes due to various constraints.

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

On the basis of the report of the High Powered Joint Expert Committee of AICTE and UGC under the chairmanship of Prof. S. K. Joshi, Director General of Council for Scientific and Industrial Research (CSIR), Regional Engineering College Silchar has been transformed and upgraded to National Institute of Technology, Silchar with the status of Deemed University on 28th June 2002. The Institute has been taken over by the 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 remodeled its curriculum and academic activities in line with that of the IITs. With its Deemed University status, the institute started awarding degrees from the year 2002 and the first convocation of the Institute was held on 16th February 2004. The Government of India declared the Institute as an Institute of National Importance by enacting the National Institutes of Technology Act 2007.

Location

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

Campus

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

The campus area has been organized into three functional sectors:

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

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





THE COUNCIL, BOG AND OTHER COMMITTEE

The Council and its composition

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

Board of Governors

Name and Address	Position
Mr. Gautam N. Mehra	Chairperson (Officiating)
Prof. Rajat Gupta, Director (i/c) NIT Silchar Prof. Dilip Kumar Baidya Director NIT Silchar (From 22.05.2023)	Chairman (ex-officio)
Smt. Saumya Gupta, Joint Secretary, Dept. of Higher Education, MHRD, GOI, Shastri Bhawan, New Delhi-110 001	Member



Mr. Sanjog Kapoor, JS & FA, Integrated Finance Division, Dept. of Higher Education, MHRD, GoI	Member
Prof. S. K. Kakoty, Professor, IIT Guwahati- 781039	Member
Prof. Promod Kumar Patowari, Professor, Department of Mechanical Engineering, NIT Silchar	Member
Dr. Asha Rani M.A., Assistant Professor, Department of Electrical Engineering, NIT Silchar	Member
Prof. Krishalal Baishnab, Registrar (i/c), NIT Silchar (up to 20-12-2023) Prof. Asim Roy, Registrar (i/c), NIT Silchar (from 21-12-2023)	Secretary

Finance Committee

Name and Address	Position
Dr. Gautam N. Mehra (up to August, 2023) Prof. Dillip Kumar Baidya, Director, NIT Silchar (from September, 2023) as Chairperson (Acting)	Chairperson
Prof. Rajat Gupta, Director (i/c) NIT Silchar (up to 21-05-2023) Prof. Dillip Kumar Baidya, Director, NIT Silchar (from 22-05-2023)	Chairman (ex-officio)
Smt. Saumya Gupta, Joint Secretary, Dept. of Higher Education, MHRD, GOI, Shastri Bhawan, New Delhi-110 001	Member
Mr. Sanjog Kapoor, JS & FA, Integrated Finance Division, Dept. of Higher Education, MHRD, GOI, Shastri Bhawan, New Delhi-110001.	Member
Prof. S. K. Kakoty, Dean of Infrastructure, Planning and Management, IIT Guwahati- 781039	Member
Prof. Promod Kumar Patowari, Professor, Department of Mechanical Engineering, NIT Silchar	Member
Prof. Krishalal Baishnab, Registrar (i/c), NIT Silchar (up to 20-12-2023) Prof. Asim Roy, Registrar (i/c), NIT Silchar (from 21-12-2023)	Member Secretary

Building and Works Committee

Name and Address	Position
Prof. Rajat Gupta, Director (i/c) NIT Silchar (up to 21.05.2023) Prof. Dillip Kumar Baidya, Director, NIT Silchar (from 22.05.2023)	Chairman
Director (NITs), Dept. of Higher Education, MHRD, GOI, Shastri Bhawan, New Delhi-110001.	Member
Shri A. K. Singh, Dy. Secretary (IFD), Dept. of Higher Education, MHRD, C-Wing, Shastri Bhawan, New Delhi-110 001.	Member
Dr. Arjun Sil, Board Nominee, Civil Engineering Department, NIT Silchar	Member
Dr. Parthajit Roy, Dean (P&D), Civil Engineering Department, NIT Silchar	Member
Superintendent Engineer, PWD, Silchar Building Circle, Silchar 1	Member
Executive Engineer (Electrical), Office of Chief Engineer, PWD (Bldng), Assam	Member
Prof. Krishalal Baishnab, Registrar (i/c), NIT Silchar (up to 20-12-2023) Prof. Asim Roy, Registrar (i/c), NIT Silchar (from 21-12-2023)	Member Secretary



The Senate

Name and Address	Position
Prof. Rajat Gupta, Director (i/c) NIT Silchar (up to 21.05.2023) Prof. Dillip Kumar Baidya, Director, NIT Silchar (from 22.05.2023)	Chairman
Prof. Rajat Gupta, Professor, ME Deptt, NIT Silchar	Member
Prof. Fazal A. Talukdar, Professor of ECE Deptt., NIT Silchar	Member
Prof. Nidul Sinha, Professor of Electrical Engg. Deptt., NIT Silchar	Member
Prof. S. Baishya, Professor of ECE Deptt., NIT Silchar	Member
Prof. Gurudas Das, Professor of HSS Deptt., NIT Silchar	Member
Prof. A. K. Dey, Professor of Civil Engineering Deptt., NIT Silchar	Member
Prof. P.S. Choudhury, Professor of Civil Engineering Deptt., NIT Silchar	Member
Prof. R. D. Misra, Professor of Mechanical Engineering Deptt, NIT Silchar	Member
Prof. A. I. Laskar, Professor of Civil Engineering Deptt., NIT Silchar	Member
Prof. D. Chakraborty, Professor of Civil Engineering Deptt., NIT Silchar	Member
Prof. M. A. Ahmed, Professor of Civil Engineering Deptt., NIT Silchar	Member
Prof. B. K. Roy, Professor of Electrical Engineering Deptt., NIT Silchar	Member
Prof. P. K. Patowari, Professor of Mechanical Engineering Deptt., NIT Silchar	Member
Prof. U. Kumar, Professor of Civil Engineering Deptt., NIT Silchar	Member
Prof. Saurabh Choudhury, Professor of Electrical Engineering Deptt., NIT Silchar	Member
Prof. A. K. Barbhuiya, Professor of Civil Engineering Deptt., NIT Silchar	Member
Prof. K.K Sharma, Professor of Mechanical Engineering Deptt, NIT Silchar	Member
Prof. N.B Dev Choudhury, Professor of Electrical Engineering Deptt., NIT Silchar	Member
Prof. Asim Roy, Professor, Physics Deptt, Nit Silchar	Member
Prof. Santanu Roy, Mathematics Dept, NIT, Silchar	Member
Prof. Parthajit Roy, Professor of Civil Engineering Deptt., NIT Silchar	Member
Prof. Rabul Hussain Laskar, Professor, ECE Dept., NIT Silchar	Member
Prof. Siddhartha Sankar Dhar, Chemistry Dept., NIT, Silchar	Member
Prof. Ahmaruzzaman, Chemistry Dept., NIT, Silchar	Member
Prof. Pranjit Barman, Chemistry Dept., NIT, Silchar	Member
Prof. Shahedul Haque Laskar, Professor of Mechanical Engineering Deptt, NIT Silchar	Member
Prof. Mausumi Sen, Professor, Mathematics Dept., NIT, Silchar	Member
Prof. Brinda Bhowmick, Professor, ECE Dept, NIT, Silchar	Member
Prof. Arup Kumar Goswami, Professor, Electrical Engineering Dept, NIT, Silchar	Member
Prof. B. Purkayastha, Computer science and Engineering Dept, NIT Silchar	Member
Prof. L.C. Saikia, Professor of Electrical Engineering Deptt., NIT Silchar	Member
Prof. J.P. Mishra, Professor of Electrical Engineering Deptt., NIT Silchar	Member
Prof. N.B. Singh, Professor of HSS Deptt., NIT Silchar	Member
Prof. Sudip Kumar Roy, Dept. of Civil Engg., IIST Shibpur	External Member
Prof. Debjani Chakraborty, Dept. of Mathematics, IIT Kharagpur	External Member
Prof. Y.M. Deshpande, Dept. of Humanities, VNIT Nagpur	External Member
Prof. Krishalal Baishnab, Registrar (i/c), NIT Silchar (up to 20-12-2023) Prof. Asim Roy, Registrar (i/c), NIT Silchar (from 21-12-2023)	Secretary

Internal Complaint Committee

Name	Department	Designation	Role in ICC
Dr. Madhumita Banerjee	Electronics and Communication Engineering	Associate Professor	Presiding Officer
Dr. Parbin Sultana	Civil Engineering	Assistant Professor	Member



Dr. Sumita Debbarma	Mechanical Engineering	Assistant Professor	Member
Dr. Juthika Mahanta	Mathematics	Assistant Professor	Member
Prof. Saurabh Choudhury	Electrical Engineering	Professor	Member
Dr. Nirmali Borthakur	Civil Engineering	Assistant Professor	Member
Prof. Mokaddes Ali Ahmed	Civil Engineering	Professor	Member
Dr. Tripti Goel	Electronics and Communication Engineering	Assistant Professor	Member
Dr. Madhuchhanda Nath	Pension Cell	Technical Assistant (SG-II)	Member
Smt. Diba Roy	NGO		Member

Deans,

Sl No.	Name	Department	Designation	Dean
1	Prof. B.K. Roy/ Dr. Brinda Bhowmick (Shome)	Electrical Engineering/ Electronics and Communication Engineering	Professor	Academic
2	Prof. Pranjit Barman/ Prof. Siddhartha Sankar Dhar	Chemistry	Professor	SW
3	Prof. N.B Dev Choudhury	Electrical Engineering	Professor	R&C
4	Prof. Parthajit Roy	Civil Engineering	Professor	P&D
5	Prof. Parthasarathi Choudhury	Civil Engineering	Professor	FW

Associate Deans

Sl No.	Name	Department	Designation	Assoc. Dean
1	Prof. Lalit Chandra Saikia/ Dr. Taimoor Khan	Electrical Engineering/ Electronics and Communication Engineering	Professor/ Associate Professor	Academic
2	Dr. Shyamosree Pal/ Dr. Arnab Nandi	Computer Science and Engineering/ Electronics and Communication Engineering	Assistant Professor/ Associate Professor	Exam
3	Dr. Prashanth J/ Dr. Briti Sundar Sil	Civil Engineering	Assistant Professor/ Associate Professor	P&D
4	Dr. Malaya Dutta Borah/ Dr. Biplab Das/ Dr. Trupti Ranjan Lenka	Computer Science and Engineering/ Mechanical Engineering/ Electronics and Communication Engineering	Assistant Professor/ Associate Professor	SW



5	Prof. Brinda Bhowmick/ Dr. Pitambar Rambhau Randive /Dr. Wasim Arif	Electronics and Communication Engineering/ Mechanical Engineering/ Electronics and Communication Engineering	Professor/Associate Professor	FW
6	Dr. Ranjit G Nair/ Dr. Sumit Bhowmik	Physics/ Mechanical Engineering	Associate Professor	R&C

Head of the Departments

Sl No.	Name	Department	Designation
1	Dr. Arjun Sil	Civil Engineering	Associate Professor
2	Dr. Pinki Roy	Computer Science and Engineering	Associate Professor
3	Dr. Tanmoy Malakar	Electrical Engineering	Associate Professor
4	Dr. Koushik Guha	Electronics and Communication Engineering	Associate Professor
5	Dr. Rajdeep Dasgupta	Electronics and Instrumentation Engineering	Associate Professor
6	Dr. Sukumar Pati	Mechanical Engineering	Associate Professor
7	Prof. Ahmaruzzaman	Chemistry	Professor
8	Dr. Kedar Nath Das	Mathematics	Associate Professor
9	Dr. Saumya Ranjan Mohapatra	Physics	Associate Professor
10	Dr. N. Bhupendra Singh	Humanities and Social Sciences	Professor
11	Dr. Ashim Kumar Das	Management Studies	Associate Professor



EDUCATION SYSTEM

Undergraduate (B.Tech)

Admission Procedure

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

Academic Calendar

The academic session is divided into two semesters each of approximately 16 weeks duration, an Odd Semester (July-November), and an Even Semester (January-May). The JEE (Main) selected candidates take admission in the first semester and on successful completion of the semester register for the subsequent semester on the dates specified in the Academic Calendar. The Senate approves the Academic Calendar consisting of schedules of activities for a session inclusive of dates for registration, mid-semester, and end-semester examinations, inter-semester breaks, etc. well in advance of a session. The Academic Calendar usually provides a total of about 90 working days in each semester.

Programme Structure

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

Registration and Assessment

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

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



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

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

Admission Procedure

M.Tech

The courses leading to M.Tech degree are open to candidates who have obtained the requisite qualification with 60% marks or 6.5 CGPA in aggregate in the qualifying examination. Statutory relaxation in the eligibility criterion is provided to candidates belonging to SC/ST/PwD communities/categories. Admission for the GATE qualified candidates is made through Common Admission Process called Central Counselling for M.Tech /M.Plan/M.Arch (CCMT).

M.Sc (Chemistry, Mathematics, Physics)

Admission to M.Sc. courses in Chemistry, Mathematics, and Physics is based on career marking, written test, and interview. Applicants must have secured at least 55% marks or a CPI of 6.00 in aggregate at B.Sc. level and preference is given to students having honours in the applied discipline. Statutory relaxation in the minimum eligibility criterion is provided to candidates belonging to SC/ST/PwD communities/categories.

MBA

The minimum eligibility criterion for admission to MBA is a Bachelor degree in any branch of Engg. /Science/ Humanities etc. with 55% marks or 6.00 CGPA and valid CAT/MAT/CMAT scores. Statutory relaxation in the minimum eligibility criterion is provided to candidates belonging to SC/ST/PwD communities/categories. Final selection is made on the basis of Group Discussion and Personal Interview conducted at the Institute.

Programme Structure

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

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

Registration

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

Research Programme (Ph.D)

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

1. Master Degree in Engg. /Technology or equivalent in an appropriate area with a minimum CPI of 6.5 or equivalent (60% of marks).
2. Bachelor Degree in Engg. /Technology with an excellent academic record and with a CPI of at least 8 or equivalent (70% of marks).
3. Students for admission to the Ph.D Programme in Science Departments must have a Master degree in relevant discipline with a first-class or a minimum of 60% of marks or equivalent. Students for admission to the Ph.D Programme in Humanities and Social sciences (HSS) Departments must have a Master degree with a minimum of 55% marks or equivalent. The selection of candidates is made on the basis of an interview conducted by the



Academic Programmes

Courses Offered

- (i) A four-year B.Tech Programme in the following branches of Engineering and Technology, is offered during the period.
- ❖ Civil Engineering
 - ❖ Mechanical Engineering
 - ❖ Electrical Engineering
 - ❖ Electronics & Communication Engineering
 - ❖ Computer Science & Engineering
 - ❖ Electronics & Instrumentation Engineering
- (ii) A two- year M.Tech, M.Sc & MBA programmes in the following branches of Engineering and Technology/Science/ Management is offered during the period.

M.Tech (Under Civil Engg. Department)

- ❖ Water Resources Engineering
- ❖ Geotechnical Engineering
- ❖ Transportation Engineering
- ❖ Structural Dynamics & Earthquake Engineering
- ❖ Structural Engineering

M.Tech (Under Electrical Engg. Department)

- ❖ Power and Energy Systems Engineering
- ❖ Control & Industrial Automation

M.Tech (Under Mechanical Engg. Department)

- ❖ Thermal Engineering
- ❖ Design & Manufacturing
- ❖ CAD-CAM & Automation
- ❖ Materials & Manufacturing Technology
- ❖ Renewable Energy

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

- ❖ Microelectronics & VLSI Design
- ❖ Communication & Signal Processing Engineering
- ❖ RF and Terahertz Communications

M.Tech (Under Computer Science & Engg. Department)

- ❖ Computer Science & Engineering
- ❖ Artificial Intelligence
- ❖ Data Science and Engineering.

M.Tech in Instrumentation Engg. (Under Electronics & Instrumentation Engg. Department)

M.Sc in Applied Chemistry (Chemistry Department)

M.Sc in Applied Physics (Under Physics Department)

M.Sc in Mathematics (Under Mathematics Department)

MBA (Under Management Studies Department)



B. TECH ENROLLMENT

The following table shows the semester-wise, course wise enrollment with sex and caste breakup for the Year 2023-24 (Including foreign students.)

Sem	Branch	Open (Breakup)		Open EWS (Breakup)		OBC (Break up)		SC (Break up)		ST (Breakup)		PH		Total Enrolment
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total
1 ST & 2 ND	CE	54	12	12	3	33	7	18	4	10	2	1 OPPH	--	156
	ME	54	12	13	4	34	9	19	5	10	2	1 OPPH	--	163
	EE	53	12	12	4	35	8	19	5	10	2	3 OPPH 1 OBPH	--	164
	ECE	55	14	12	4	34	8	18	5	10	2	1 OPPH 1 OBPH	--	164
	CSE	62	16	12	4	32	8	19	5	10	2	2 OBPH 2 OPPH	1 OPPH	175
	E&I	31	8	*9	2	21	6	11	2	6	2	1 OPPH	--	*99
	Total	309	74	70	21	189	46	104	26	56	12	13	1	921
3 RD & 4 TH	CE	30	8	14	3	46	8	17	5	7	4	--	--	142
	ME	28	8	20	4	36	9	20	4	8	3	1 OBPH	--	141
	EE	37	7	27	4	38	7	18	5	10	2	1 OBPH		156
	ECE	44	14	23	4	38	8	19	5	9	3	2 OPPH 1 EWSPH 1 OBPH 1 SCPH	1 OPPH	173
	CSE	51	12	22	6	45	9	19	5	10	2	2 OBPH	1 OBPH	184
	E&I	19	3	13	4	18	3	10	2	3	3	1 OPPH		79
	Total	209	52	119	25	221	44	103	26	47	17	10	2	875
5 TH & 6 TH	CE	28	8	19	4	36	8	16	5	8	4	1 OBPH 1 STPH	-	138
	ME	37	6	19	3	35	7	16	5	9	3	-	-	140
	EE	39	7	17	4	35	8	18	5	9	2	2 OBPH	-	146
	ECE	45	11	27	3	40	6	23	5	9	2	1 OPPH 1 OBPH 1 EWSPH	1 OBPH	175
	CSE	51	14	29	6	36	7	19	4	9	2	1 STPH 1 OPPH 3 OBPH 1 SCPH	1 OBPH	184
	E&I	20	4	12	4	18	3	8	2	3	2	1 OPPH	-	77
	Total	220	50	123	24	200	39	100	26	47	15	14	2	860
7 TH & 8 TH	CE	21	5	16	4	40	10	16	6	10	3	1 SCPH 1 OPPH 2 OBPH	-	135



ME	31	9	14	4	37	5	19	4	8	3	1 OPPH 1 OBPH	--	136
EE	26	7	30	4	37	10	19	4	10	2	2 OPPH 1 OBPH	--	152
ECE	48	13	29	6	36	7	20	3	8	3	2 OPPH 1 EWSPH	--	176
CSE	45	13	31	6	41	11	16	6	9	--	2 OBPH 1 OPPH 1 SCPH	1 OP PH	183
E&I	21	8	12	2	18	4	8	5	3	2	1 OPPH	--	84
Total	192	55	132	26	209	47	98	28	48	13	17	1	866
Grand Total	930	231	444	96	819	176	405	106	198	57	54	6	3522

*01 student of prior batch enrolled with 1st year in E&I deptt.

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

The following is a summary table of the number of B.Tech Students on the roll of NIT Silchar during 2023-24

Year	CE	ME	EE	ECE	CSE	EIE	TOTAL
1 st	156	163	164	164	175	99	921
2 nd	142	141	156	173	184	79	875
3 rd	138	140	146	175	184	77	860
4 th	135	136	152	176	183	84	866
TOTAL-	571	580	618	688	726	338	3522



PG ENROLLMENT (2023-24)

Sem.	Branch	Open		EWS		SC		ST		OBC		PWD		Foreign student		Sponsored		Total		Grand Total
		Break up		Break up		Break up		Break up		Break up		Break up		Break up		Break up				
1 ST & 2 ND		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	-
	CE	17	2	4	0	11	2	5	3	7	5	0	0	1	0	1	0	46	12	58
	CSE	18	3	3	1	8	2	3	0	13	3	0	0	2	0	0	0	47	9	56
	EE	2	1	0	0	0	0	2	0	2	0	0	0	0	0	0	0	6	1	7
	ECE	9	1	0	0	2	0	1	0	0	1	0	0	0	0	0	0	12	2	14
	E&I	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	2
	ME	4	0	0	0	3	0	1	4	3	0	0	0	0	0	0	0	11	4	15
Total		50	7	7	1	24	4	12	7	26	10	0	0	3	0	1	0	123	29	152
3 RD & 4 TH	CE	25	10	3	0	10	1	1	4	5	6	0	0	0	0	1	0	45	21	66
	CSE	11	4	0	0	2	1	0	1	5	0	0	0	0	0	0	0	18	6	24
	EE	12	1	2	0	2	0	0	0	4	1	0	0	0	0	0	0	20	2	22
	ECE	13	1	1	1	1	1	0	1	5	1	0	0	0	0	0	0	20	5	25
	E&I	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	2
	ME	11	2	0	0	3	0	0	1	11	0	0	0	0	0	0	0	25	3	28
Total		72	18	7	1	18	3	1	7	31	8	0	0	0	0	1	0	130	37	167
M.Tech.Grand Total		122	25	14	2	42	7	13	14	57	18	0	0	3	0	2	0	253	66	319
1 ST & 2 ND	Chem.	4	4	0	2	1	1	1	1	4	3	0	0	0	0	0	0	10	11	21
	Maths.	3	2	4	1	4	0	1	0	9	0	0	0	0	0	0	0	21	3	24
	Phy.	7	3	0	0	0	1	1	0	4	3	0	0	0	0	0	0	12	7	19
Total		14	9	4	3	5	2	3	1	17	6	0	0	0	0	0	0	43	21	64
3 RD & 4 TH	Chem.	4	7	2	0	2	0	0	0	2	3	0	0	0	0	0	0	10	10	20
	Maths.	5	5	1	1	2	1	1	0	4	1	0	0	0	0	0	0	13	8	21
	Phy.	6	3	1	1	1	0	1	0	3	2	0	0	0	0	0	0	12	6	18
Total		15	15	4	2	5	1	2	0	9	6	0	0	0	0	0	0	35	24	59
M.sc.Grand Total		29	24	8	5	10	3	5	1	26	12	0	0	0	0	0	0	78	45	123
1 ST & 2 ND	MBA	12	14	5	1	3	1	1	1	7	7	1	0	0	0	0	0	29	24	53
3 RD & 4 TH	MBA	17	10	2	3	2	4	3	1	4	6	0	0	0	0	0	0	28	24	52
MBA Grand Total		29	24	7	4	5	5	4	2	11	13	1	0	0	0	0	0	57	48	105
GRAND TOTAL IN OVERALL		180	73	29	11	57	15	22	17	94	43	1	0	3	0	2	0	388	159	547



Admission Statistics B.Tech

(a) Indian students admitted

The following table shows the state-wise and course-wise admission statistics with category break up for the year 2023-24

Name of state	Category	CE	CSE	EE	ECE	E&I	ME	Total
Assam	OP	22	23	30	31	13	28	147
	OBC	20	25	22	21	13	21	122
	SC	12	12	12	12	7	12	67
	ST	6	6	6	6	4	6	34
	OPPH	1	-	1	-	-	1	3
	OBPH	-	1	-	-	-	-	1
	EWS	15	12	9	9	12	12	69
Rajasthan	OP	-	1	1	-	1	1	4
	OBC	2	-	2	1	-	3	8
	SC	-	-	-	-	-	3	3
	ST	-	-	1	-	-	-	1
	EWS	2	1	-	4	1	-	8
Bihar	OP	3	-	1	3	1	2	10
	OBC	11	5	13	10	5	7	51
	SC	2	-	-	-	-	1	3
	EWS	6	5	8	1	3	4	27
UP	OP	4	1	4	4	3	3	19
	OBC	6	6	3	5	7	12	39
	SC	3	3	4	3	2	2	17
	OPPH	-	-	-	-	1	-	1
	EWS	6	4	5	3	4	8	30
	OBPH	-	1	-	-	-	-	1

Andhra Pradesh	OP	1	5	-	2	1	2	11
	OBC	4	8	4	6	-	-	22
	SC	-	1	2	3	-	1	7
	ST	1	1	1	1	-	-	4
	OBPH	-	2	1	-	-	3	6
	EWS	1	9	3	7	-	2	22
	OPPH	-	-	-	2	-	-	2
Jharkhand	OP	-	-	-	-	1	-	1
	EWS	-	-	1	-	-	-	1
	OBC	2	-	1	-	-	2	5
	ST	-	-	-	-	1	-	1
	SC	1	-	-	-	-	-	1
Orissa	OP	-	2	2	1	1	3	9
	ST	-	-	-	-	-	1	1



	OBC	-	-	-	-	-	2	2
	EWS	-	-	-	-	-	1	1
Maharashtra	OP	1	-	-	-	-	-	1
	OBC	1	2	2	1	-	1	7
	SC	-	-	2	-	-	1	3
Haryana	OP	-	-	-	2	-	-	2
	OBC	1	-	-	-	-	-	1
	EWS	-	-	1	1	-	-	2
Telangana	OP	-	-	-	3	1	1	5
	OBC	2	-	1	3	1	-	7
	SC	2	1	-	2	1	-	6
	ST	2	5	4	5	2	3	21
	EWS	-	4	-	-	1	-	5
Uttarakhand	OP	1	1	-	-	-	-	2
	EWS	-	-	-	-	-	1	1
	SC	-	1	-	-	1	-	2
	OBC	-	-	1	-	-	-	1
West Bengal	SC	2	4	4	2	-	3	15
	OP	1	2	4	-	2	1	10
	EWS	-	-	-	-	-	1	1
	OPPH	-	-	1	-	-	-	1
Delhi (NCT)	OP	1	-	-	-	-	-	1
Arunachal Pradesh	ST	1	-	-	-	-	-	1
Gujarat	SC	-	1	-	-	-	-	1
	OP	-	-	-	1	-	-	1
Madhya Pradesh	OP	-	-	1	1	-	-	2
	OBC	1	1	-	-	-	-	2
	EWS	1	-	2	-	1	-	4
	SC	-	-	-	-	2	-	2
	ST	-	-	-	-	1	1	2
Manipur	ST	-	-	-	-	-	1	1
	OBC	-	1	-	-	-	-	1
	OBPH	-	-	1	-	-	-	1
Tripura	SC	-	-	-	1	-	-	1
Meghalaya	ST	1	-	-	-	-	-	1
Tamil Nadu	OBC	-	-	-	-	-	1	1
Karnataka	OP	-	-	-	1	1	-	2
Nagaland	ST	1	-	-	-	-	-	1
Chandigarh	OPPH	-	1	-	-	-	-	1



Chattisgarh	SC	-	1	-	-	-	-	1
Kerala	OP	-	-	-	-	1	1	2
	OBC	-	-	-	-	2	-	2
Punjab	SC	-	-	-	-	-	1	1
Total		150	159	161	158	98	160	886
Outside Country		6	16	3	6	-	3	34
Grand Total		156	175	164	164	98	163	920

(b) B.Tech. Foreign students admitted

Name of country	CE	ME	EE	ECE	CSE	E&I	Total
Bangladesh	5	3	3	5	8	-	24
Jamaica	1	-	-	-	-	-	1
Nepal	-	-	-	-	7	-	7
UAE	-	-	-	1	-	-	1
Myanmar	-	-	-	-	1	-	1
Total							34

Course-Wise Admission statistics (B.Tech-1st Year)-2023-24

Sl.No.	Courses	Intake Capacity	Admitted	Remarks
1.	Civil Engineering	157	156	The excess intake (over & above the intake capacity) is including foreign students.
2.	Computer Sc. & Engg.	161	175	
3.	Electrical Engineering	162	164	
4.	Electronics & Communication Engg.	162	164	
5.	Electronics & Instrumentation Engg.	100	98	
6.	Mechanical Engg.	161	163	
Total		903	920	



M.Tech in Mechanical Engineering	CAD-CAM & Automation	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1
	Design & Manufacturing	1	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	4	1	5
	Materials Manuf. Tech.	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	1	3
	Renewable Energy	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	2
	Thermal Engg.	2	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	1	4
	TOTAL	4	0	0	0	3	0	1	4	3	0	0	0	0	0	0	0	11	4	15
	Grand Total	50	7	7	1	24	4	12	7	26	10	0	0	3	0	1	0	123	29	152
M.Sc	Applied Chem.	4	4	0	2	1	1	1	1	4	3	0	0	0	0	0	0	10	11	21
	Mathematics	3	2	4	1	4	0	1	0	9	0	0	0	0	0	0	0	21	3	24
	Applied Phy.	7	3	0	0	0	1	1	0	4	3	0	0	0	0	0	0	12	7	19
	TOTAL	14	9	4	3	5	2	3	1	17	6	0	0	0	0	0	0	43	21	64
Management Studies	MBA	12	14	5	1	3	1	1	1	7	7	1	0	0	0	0	0	29	24	53
GRAND TOTAL		76	30	16	5	32	7	16	9	50	23	1	0	3	0	1	0	195	74	269

(b) Foreign Students Admitted

The following table shows the admission statistics of foreign students for the year 2023-24.

Sl. No.	Courses (M.Tech)	Admitted
1.	Civil Engineering	1 (Nepal)
2.	Mechanical Engineering	NIL
3.	Electrical Engineering	NIL
4.	Electronics & Communication Engineering	NIL
5.	Computer Sc. & Engineering	2 (1 Nepal & 1 Bangladesh)
6.	Electronics & Instrumentation Engineering	NIL
Total		3

M.Tech, M.Sc & MBA Intake Capacity & Admission

The following table shows course admission statistics of PG programmes (M.Tech. M.Sc. & MBA) for the year 2023-24 (Including foreign student)



Deptt.	Sanctioned Strength including sponsored category	M.Tech. M.Sc. & MS Specialization	No. of PG Student		
			Male	Female	Total
CE	25+5	M.Tech. in Geotechnical Engg.	6	3	9
	25+5	M.Tech. in Structural Dynamics & Earthquake Engg.	6	0	6
	25+5	M.Tech. in Structural Engg.	17	3	20
	25+5	M.Tech. in Transportation Engg.	13	4	17
	25+5	M.Tech. in Water Resources Engg.	4	2	6
CSE	20+4	M.Tech. in Artificial Intelligence	17	2	19
	25+5	M.Tech. in Computer Science & Engg.	23	5	28
	13+2	M.Tech. in Data Science & Engg.	7	2	9
EE	25+5	M.Tech. in Control & Industrial Automation	1	0	1
	25+5	M.Tech. in Power & Energy System Engg.	5	1	6
ECE	25+5	M.Tech. in Communication & Signal Processing Engg.	4	1	5
	25+5	M.Tech. in Microelectronics & VLSI Design.	8	1	9
	13+2	M.Tech. in RF and Terahertz Communications	0	0	0
EIE	13+2	M.Tech. in Instrumentation Engg.	1	1	2
ME	13+2	M.Tech. in CAD-CAM & Automation	1	0	1
	25+5	M.Tech. in Design & Manufacturing	4	1	5
	12+2	M.Tech. in Materials & Manufacturing Technology	2	1	3
	10+2	M.Tech. in Renewable Energy	1	1	2
	25+5	M.Tech. in Thermal Engg.	3	1	4
CHEM	25+5	M.Sc. in Applied Chemistry	10	11	21
MATH	25+5	M.Sc. in Mathematics	21	3	24
PHY	25+5	M.Sc. in Applied Physics	12	7	19
MS (MBA)	75	MBA	29	24	53
Grand Total (M.Tech + M.Sc + MBA) =			195	74	269

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



The following is a summary of the total number of PG students on the roll of NIT Silchar during 2023-24

Courses	CE	CSE	EE	ECE	E&I	ME	CHY	MATHS	PHY	MBA	TOTAL
M.Tech	124	80	29	39	4	43					319
M.Sc							41	45	37		123
MBA										105	105
Total											547

Students Strength

The following table shows the total UG and PG student strength on the roll (course wise) of the year 2023-24 at NIT Silchar.

Courses		Branches	Total students strength (course-wise)
UG (B.Tech.)		Civil Engineering	571
		Mechanical Engineering	580
		Electrical Engineering	618
		Electronics & Communication Engg.	688
		Computer Science & Engineering	726
		Electronics & Instrumentation Engg.	339
PG	M.Tech	Postgraduate Course (All engineering department)	319
	M.Sc.	Applied Chemistry/Applied Physics/Mathematics	123
	Management studies	MBA	105
GRAND TOTAL			4069

Awards

The Institute offered the following awards in the 21st Convocation held in November 2023.

(A)	Institute Gold Medals	
Sl.No.	Title of the Medal	Awardees
1.	Best B.Tech. Graduate	Mriganka Bharali (E&I Deptt.)
2	Best Post Graduate	Saurabh Halder (ME&VLSI, ECE Deptt.)

(B)	Institute Silver Medals	
Sl. No.	Title of the Medal	Awardees
1.	Best B.Tech. Graduate in Civil Engineering	Ruchir Bhattacharyya



2.	Best B.Tech. Graduate in Mechanical Engineering.	Kaushik Mahanta
3.	Best B.Tech. Graduate in Electronics and Communication Engineering	Salvi Ayush Sudhakar and Jayatu Dhruba Barua
4.	Best B.Tech. Graduate in Electrical Engineering	Lade Kavya Sri
5	Best B.Tech. Graduate in Computer Scienec & Engineering	Jintumoni Kalita
6	Best Post Geotechnical Engg. (CE)	Nadakuditi Naga Praveen
7	Best Post Graduate in Structural .Dynamics & Earthquake Engg. (CE)	Shruti Chaudhary
8	Best Post Graduate in Structural Engineering (CE)	Upasana Sar
9	Best Post Graduate in Transportation Engineering (CE)	Chilakala Preetham
10	Best Post Graduate in Water Resources Engineering (CE)	Pranay Barman
11	Best Post Graduate in Artificial Intelligence (CSE).	Sandeep Kumar Rana
12	Best Post Graduate in Computer Scienec & Engineering	Rohit Sharma
13	Best Post Graduate in Power & Energy System Engg. (EE)	Manas Jyoti Mahanta
14	Best Post Graduate in Thermal Engineering (ME)	Plabita Bhuyan and Anindya Nath
15	Best Post Graduate in Applied Chemistry	Ananya Satapathy
16	Best Post Graduate in Mathematics	Sumit Saurabh
17	Best Post Graduate in Applied Physics	Soumya Sweta Bhujabal
18	Best Post Graduate in Management Studies	Sibanjan Purkayastha and Swarmista Paul

Sponsored Awards-

(C) Kalikrishna Mrinalini Deb Krori Award			
Sl.No.	Title of the Medal	Department	Awardees
1.	Best B.Tech. Graduate on overall performance, (Instituted by Dr. K.D Krori, Guwahati)	Electronics & Instrumentation Engineering.	Abhinav Kumar Gupta

(D) Saswata Purkayastha Memorial Award			
Sl.No.	Title of the Medal	Department	Awardees



1.	Best Gymkhna member of B.Tech., considering all round activities (Instituted by Shree Niharendu Purkayastha , Silchar)	Electronics & Comm Engineering	Afsana Yasmin

(E) Best All Round Graduate Award			
Sl.No.	Title of the Medal	Department	Awardees
1.	Best All Round Graduate Award	Computer Science & Engineering	Md. Arshad Ahmed

(F) Subhankar Pandit Memorial Award			
Sl.No.	Title of the Medal	Department	Awardees
1.	Subhankar Pandit Memorial Award	Electrical Engg.	Lade Kavya Sri

(G) Best Doctoral Award			
Sl.No.	Title of the Medal	Department	Awardees
1.	Best Doctoral Award	Electronics & Communication Engg.	Abinash Panda

Statistics of the Results of UG & PG students passed out in 2023

Department	Specialization	No. of students appeared	Passed & eligible for Degree	Withheld/ Not Appeared	Percentage of pass.
Civil Engg.	Geotechnical Engg.	23	23	-	100%
	Structural Engineering	29	27	2	93.10%
	Structural Dynamics & Earthquake Engg.	08	08	-	100%
	Transportation Engg.	25	25	-	100%
	Water Resources Engg.	10	10	-	100%
Mechanical	CAD-CAM & Automation	04	04	-	100%
	Design & Manufacturing	06	05	1	83.33%



Engineering	Materials & Manufacturing	03	03	-	100%
	Thermal Engineering	07	07	-	100%
	Renewable Energy	03	03	-	100%
Electrical Engineering	Control & Industrial Automation.	04	04	-	100%
	Power & Energy System Engineering.	09	09	-	100%
Electronics & Comm. Engineering	Communication & Signal Processing Engineering	05	05	-	100%
	Microelectronics & VLSI Design.	15	15	-	100%
Computer Sc. & Engg.	Computer Sc. & Engg.	20	19	1	95%
	Artificial Intelligence	09	09	-	100%
Electronics & Instrumentation Engineering	Instrumentation Engg.	04	03	1	75%
TOTAL		184	179	05	97.28%

(M.Sc)

Department	Specialization	No. of students appeared	Passed & eligible for Degree	Withheld/ Not Appeared	Percentage of pass.
Chemistry	Applied Chemistry	15	15	-	100%
Mathematics	Mathematics	22	22	-	100%
Physics	Applied Physics	20	20	-	100%
TOTAL		57	57	0	100%

(MBA)

Department	Specialization	No. of students appeared	Passed & eligible for Degree	Withheld/ Not Appeared	Percentage of passed
Management Studies	Master of Business Administration (MBA)	51	50	1	98.04%
TOTAL		51	50	1	98.04%



B. TECH.

BRANCH	No. Of Students Appeared in 2023	Passed & Eligible for Degree in 2023	Failed/ withheld in 2023	Percentage of pass in 2023
Civil Engineering	133	132	1	99.25%
Computer Science & Engineering	176	174	2	98.86%
Electrical Engineering	139	136	3	97.84%
Electronics & Communication Engineering	172	171	1	99.42%
Electronics & Instrumentation Engineering	70	70	NIL	
Mechanical Engineering	147	146	1	99.32%
Total	837	829	8	99.04%

b) List of candidates qualified for the Degree of Bachelor of Technology after 20^h Convocation held in Nov. 2022 and before 21st Convocation held in November 2023.

Branch	Appeared	Passed
Mechanical Engineering (B.Tech)	1	1

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Sl. No.	Name of Organization	Date of visit	CTC (in LPA)	CE	CSE	EE	ECE	EIE	ME	MBA	M.Sc.	M. Tech.	Total	Remarks
18.	Airtel Payments Bank	26 & 29 Aug 23	14.75	-	2	-	2	-	-	-	-	-	4	On line drive
19.	Toshiba Software (India) Pvt. Ltd	29 Aug 23/ 4 PPO	10	-	-	-	5	-	-	-	-	-	5	On line drive
20.	Adobe	PPO	47	-	2	-	-	-	-	-	-	-	2	
21.	TATA Technologies	30-31 Aug 23	14	-	-	-	4	-	-	-	-	-	4	Off line drive
22.	Oceanengineering Intl. Services Ltd	4-5 Sep 23	8	-	-	-	-	-	6	-	-	-	6	Off line drive
23.	Swiss Re Global Business Pvt Ltd	PPO	14	-	-	-	-	1	-	-	-	-	1	
24.	Microsoft	PPO	49.03	-	1	2	1	-	-	-	-	-	4	
25.	Accenture	09 Sep 23	11.89	1	1	1	4	1	1	-	-	-	9	On line drive
26.	Alstom	07 Sep 2023	6.8	-	-	1	-	-	-	-	-	-	1	On line drive
27.	Jubilant Foodworks	08 Sep 2023	8.72	-	-	-	-	1	1	-	-	-	2	On line drive
28.	Ashok Leyland Limited	11 Sep 23	7.5	-	-	1	1	1	1	-	-	-	4	On line drive
29.	Uber Technologies	15 Sep 2023	14.5	-	2	-	-	-	-	-	-	-	2	On line drive
30.	Codeyoung	16 Sep 2023	7.36	-	-	-	-	-	1	-	-	-	1	On line drive
31.	Pie Infocomm	20 Sep 2023	7.5	1	-	1	-	1	-	-	-	-	3	On line drive
32.	Accolite Digital	21-22 Sep 23	8	-	1	1	2	1	-	-	-	-	5	On line drive
33.	Qbit Lab Pvt Ltd.	22 Sep 2023	9.33	-	-	-	1	-	-	-	-	-	1	On line drive
34.	Zscaler	21-23 Sep 23	26.5	-	2	-	2	-	-	-	-	-	4	On line drive
35.	Collegietour	21 Sep 23	4	-	-	-	-	-	-	Mktg-1	-	CIA-1	2	On line drive
36.	Deloitte Consulting India Pvt. Ltd.	26 Sep 2023	7.6	2	1	1	3	2	-	-	-	-	9	On line drive
37.	PwC, India	29 Sep 23	9	1	1	1	3	3	-	-	-	-	9	On line drive

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Sl. No.	Name of Organization	Date of visit	CTC (in LPA)	CE	CSE	EE	ECE	EIE	ME	MBA	M.Sc.	M.Tech	Total	Remarks
74.	Tata Adv Sys Ltd.	02 Jan 2024	5	-	-	-	-	-	1	-	-	-	1	On line drive
75.	Hexaware	04 Jan 2024	15	-	1	-	1	-	-	-	-	-	2	On line drive
76.	Unistring Tech Solutions Pvt. Ltd.,	05 Jan 2024	8	-	-	1	-	-	-	-	-	-	1	On line drive
77.	Global Logic	05 Jan 2024	7.36	-	1	5	7	4	-	-	-	-	17	On line drive
78.	HCL Software	02 Jan 2024	9.5	-	2	1	-	-	-	-	-	VLSI-2	3+2=4	On line drive
79.	GR Infraprojects Ltd	8-10 Jan 24	6 & 7	-	-	-	-	-	-	-	-	SE-2 WR-1 TPT-1	4	Off line drive
80.	Amul (GCMF Ltd.), Guwahati	09 Jan 2024	6.5	-	-	-	-	-	-	Mktg-1	-	-	1	On line drive
81.	Sony India Software Center Pvt.Ltd.	10 Jan 2024	9	-	-	-	-	-	-	-	-	CSE-1	1	On line drive
82.	Delhivery Limited	10 Jan 2024	7	5	-	2	-	5	4	-	-	-	16	On line drive
83.	Coffee Day Beverages	11 Jan 2024	6.4	-	-	-	-	-	-	Mktg-1	-	-	1	On line drive
84.	ArcelorMittal Nippon Steel India Ltd	13 Jan 2024	8.5	-	-	4	-	-	3	-	-	-	7	On line drive
85.	Himadri Speciality Chemical Ltd	18-19 Jan 24	7	-	-	2	-	-	2	-	-	-	4	Off line drive
86.	Ajmal Super 40	18-19 Jan 24	5	1	-	1	-	1	1	-	Chem-4 Phy-1 Math-1	-	4+6=10	Off line drive
87.	ZF Technology Center India	22 Jan 2024	9.25	-	-	-	-	-	-	-	-	VLSI-1	1	On line drive
88.	TATA Consultancy Engineering	30 Jan 2024	4.5	3	-	1	-	2	4	-	-	-	10	On line drive
89.	IntelliSmart Infrastructure Pvt. Ltd.	29-31 Jan 24	5.3	-	-	2	2	-	-	-	-	-	4	Off line drive
90.	Oil India Ltd.	7 Feb 2024	17	2	-	-	1	-	1	-	-	-	4	Off line (Pool)
91.	TATA Consultancy Services/TCS NQT	8 Feb & 18 Jul 2024	9	1	1+2	1	2+6	-	2	-	AI-1 & CSE-1	-	3+12+2=17	On line drive



Sl. No.	Name of Organization	Date of visit	CTC (in LPA)	CE	CSE	EE	ECE	EIE	ME	MBA	M.Sc.	M. Tech	Total	Remarks
92.	Afcons Infrastructure Ltd.	06 Feb 2024	5.4	3	-	-	-	-	-	-	-	-	3	On line drive
93.	KEC International	06 Feb 2024	6	5	-	-	-	-	2	-	-	SE-2	7+2=9	On line drive
94.	DE Shaw	07 Feb 2024	52	-	1	-	-	-	-	-	-	-	1	On line drive
95.	Jindal Shadeed	08 Feb 2024	16.67	-	-	3	-	-	-	-	-	-	3	Off line drive
96.	HDFC AMC Ltd.	13 Feb 2024	5	-	-	-	-	-	-	FIN-1 Mktg-1	-	-	2	On line drive
97.	HRRL	20-23 Feb 24	5	-	-	-	-	5	-	-	-	-	5	Off line drive
98.	Invesco Ltd.	21-23 Feb 24	9	2	-	-	2	-	-	-	-	-	4	Off line drive
99.	Indus Towers Ltd	22 Feb 2024	9.5	2	0	0	0	0	0	0	0	0	2	On line drive
100.	Essar Oil UK Ltd.	23 Feb 2024	8	-	-	1	-	3	-	-	-	-	4	On line drive
101.	TATA Power	17 Feb 2024	6.97	-	-	2	-	-	-	-	-	-	2	On line drive
102.	Selec Controls Pvt. Ltd.	28 Feb 2024	6	-	-	-	2	-	-	-	-	-	2	On line drive
103.	Varun Beverages Ltd.	2-3 Mar 2024	7.5	-	-	2	-	-	1	-	-	-	3	Off line drive
104.	Godrej & Boyce Mfg. Co. Ltd.	06 Mar 2024	7.25	-	-	-	1	-	-	-	-	-	1	On line drive
105.	Paharpur Cooling Towers Ltd.	4-5 Mar 2024	7.5	-	-	-	-	-	6	-	-	-	6	Off line drive
106.	BEL Ghaziabad (CRL)	15-18 Mar 24	12.5	-	9	-	-	-	-	-	-	-	9	Off line drive
107.	Vedanta	15 Mar 2024	14	6	1	7	-	2	9	-	-	-	25	On line drive
108.	BEML Limited	17-20 Mar 24	9.8	-	2	-	-	-	1	-	-	-	3	Off line drive
109.	Engineers India Ltd.	18-20 Mar 24	19.9	1	-	6	-	4	2	-	-	-	13	Delhi
110.	Raam Group	22 Mar 2024	6	1	-	1	-	-	-	-	-	-	2	On line drive
111.	Berger Paints India Ltd.	25 Mar 2023	7.08	-	-	-	-	-	-	Mktg-2	-	-	2	On line drive
112.	Haldia Petrochemicals Ltd.	26 Mar 2024	6.5	-	-	-	-	2	-	-	-	-	2	On line drive

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Sl. No.	Name of Organization	Date of visit	CTC (in LPA)	CE	CSE	EE	ECE	EIE	ME	MBA	M.Sc.	M. Tech	Total	Remarks
134.	GLA University, Gr. Noida Campus	25 May 2024	8.4	-	-	-	-	-	-	-	-	CSE-1	1	On line drive
135.	Ajax Engg. Pvt. Ltd.	21-23 May 24	6	4	-	-	-	-	-	-	-	-	4	Off line drive
136.	Myntra Designs Pvt. Ltd.	28 May 2024	30	-	1	-	-	-	-	-	-	-	1	On line drive
137.	Alteryx	PPO	20	-	2	-	-	-	-	-	-	-	2	
138.	Cummins India	PPO	11.7	-	-	-	-	-	-	-	-	CIA-1	2	
139.	Gamechange Solar	PPO	7.5	-	-	-	-	-	-	-	-	TPT-1-	1	
140.	NPCI (National Payments Corporation of India)	30 May 2024	16.15	-	1	-	-	-	-	-	-	-	1	On line drive
141.	LG Soft India Pvt. Ltd.	PPO	10	-	-	-	-	-	-	-	-	WR-1 Cad-1	2	
142.	LivSense Technologies Pvt. Ltd.	30 May 2024	6	-	2	-	1	-	-	-	-	-	3	On line drive
143.	FNZ Technology (India) Pvt Ltd	12 Jun 2024	17	-	1	-	1	1	-	-	-	-	3	On line drive
144.	Blackrock	PPO	12	-	-	1	-	-	-	-	-	-	1	
145.	NVIDIA graphics Pvt. Ltd.	PPO	46.16	-	-	-	-	1	-	-	-	-	1	
146.	Bharat Petroleum Corp. Ltd.(BPCL)	25-26 Jun 24	19	-	2	2	-	6	3	-	-	-	13	At corporate office
147.	Vodafone Intelligent Solutions	12 Jul 2024	5	-	2	-	1	-	-	-	-	-	3	On line drive
148.	MECON Ltd.	16 Jul 2024	12.63	2	-	-	-	-	1	-	-	-	3	On line drive
149.	Corizo Edutech Pvt. Ltd.	17 Jul 2024	6.5	-	-	1	2	-	1	-	-	-	4	On line drive
150.	Capgemini	22 Jul 2024	7.5	-	-	1	-	1	-	-	-	-	2	On line drive
151.	Rakuten India Enterprise Pvt Ltd.	PPO	9.47	-	-	-	1	-	-	-	-	-	1	
152.	Gradlepoint Pvt. Ltd.	PPO	13.2	-	2	-	-	-	-	-	-	-	2	
153.	Big Basket	PPO	11	-	1	-	2	-	-	-	-	-	3	



Sl. No.	Name of Organization	Date of visit	CTC (in LPA)	CE	CSE	EE	ECE	EIE	ME	MBA	M.Sc.	M.Tech	Total	Remarks
154.	Star Cement	Off Campus	4.5	-	-	-	-	-	-	Mktg-3	-	-	3	
155.	Cisco	Off Campus	24.74	-	-	-	-	1	-	-	-	-	1	
156.	Onextel Media Pvt. Ltd.	Off Campus	12	-	-	-	-	1	-	-	-	-	1	
157.	Zolostays Property Solutions Pvt Ltd.	Off Campus	3.5	-	-	-	-	-	-	HR-4 Fin-2 Mktg-2	-	-	8	
Details of Placement														
Total No of students				CE	CSE	EE	ECE	EIE	ME	MBA	M.Sc.	M.Tech	Total	
				133+3	168+14	149+3	169+7	78+6	134+1	50	60	162	831+34 (B.Tech.)	
Total No of eligible students (CGPA 6.5 & above)				131	165	143	168	73	120	47	54	148	800 (B.Tech.)	
Total No. Of Job offers (till date)				79	144	100	110	78	79	32	15	48	590 (B.Tech.)	
Total No. Of Job Placed (till date)				72	122	82	103	58	73	29	15	45	510 (B.Tech.)	-
Average Job Offers (B.Tech.-71.00 %)				59.40	85.71	67.11	65.09	100.00	58.96	64.00	25.00	29.63		
Average Job Placed on eligible (B.Tech. – 63.75 %)				54.96	73.94	57.34	61.31	79.45	60.83	61.70	27.78	30.41		
Average Job Placed on Total students less Foreigners (B.Tech. –61.37 %)				54.14	72.62	55.03	60.95	74.36	54.48	58.00	25.00	27.78		
Average Salary (B.Tech. –13.94 LPA)				8.11	19.34	12.92	14.91	14.90	9.45	5.41	6.3	6.86		
Median Salary (B.Tech. – 10 LPA)				6.57	16.16	10.00	10.00	13.00	8.00	5.00	6.00	7.50		
Highest Salary- 52.89 LPA				19.9	52.89	52.89	52.89	52.89	19.90	12.00	8.00	11.70		
Lowest Salary- 4.00 LPA				4.05	5.00	4.20	3.3	4.50	4.05	3.5	5.00	2.40		

Total No of students - Bold & Italic indicates foreign students





DEPARTMENTS

1. Name of the Department:

Civil Engineering



The Department at a glance	
Year of Establishment: 1977	
Academic Programmes Offered: • Bachelor of Technology (B.Tech) • Master of Technology (M.Tech) • Doctor of Philosophy (Ph.D.)	
Total Faculty Strength: 42 • Professor: 9 • Associate Professor: 10 • Assistant Professor: 23	
Total Student Strength: 918 • B.Tech: 548 • M.Tech: 218 • Ph.D.: 152	
New Students Joined in 2023-2024: 279 • B.Tech: 157 • M.Tech: 111 • Ph.D.: 11	

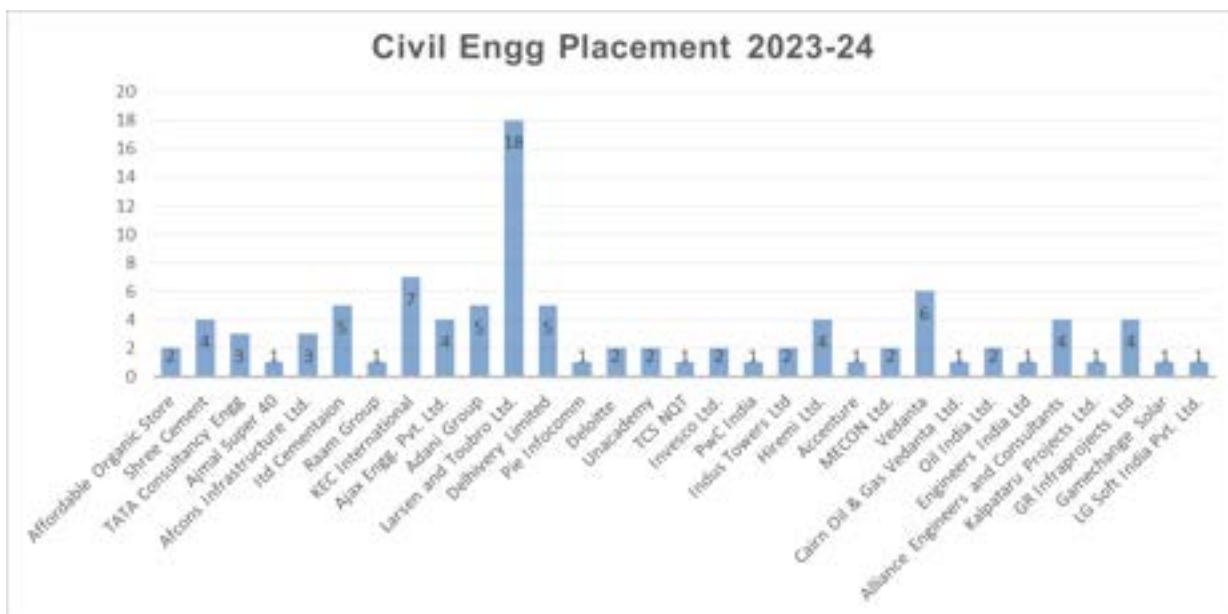


Fig: Placement statistics of students in the Civil Engineering Department (UG and PG) during 2023-2024

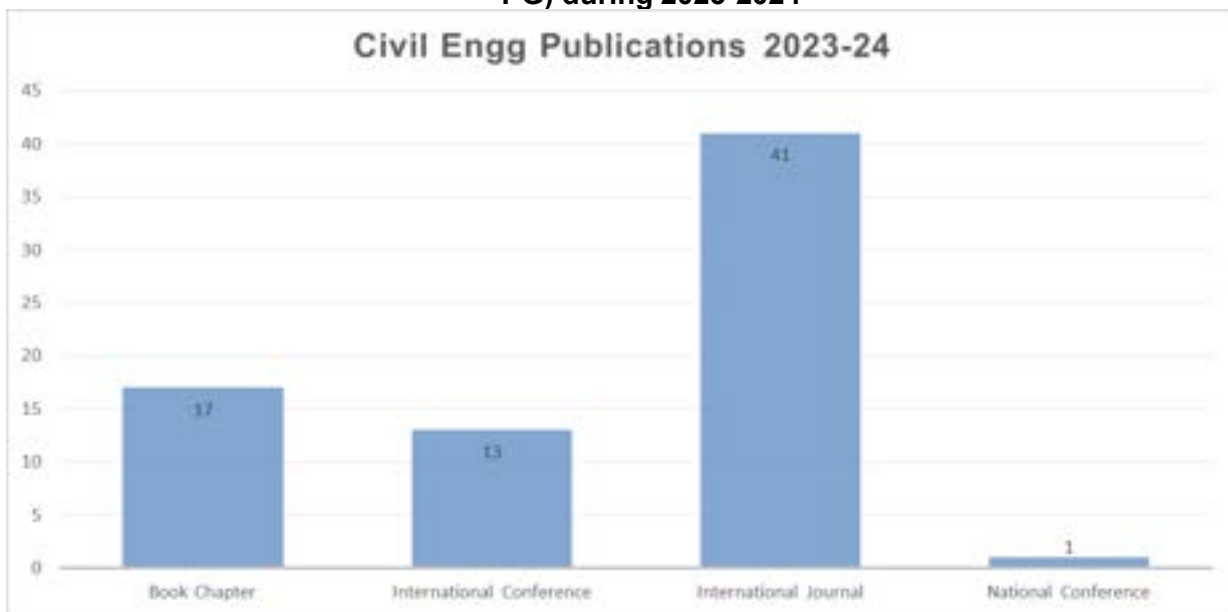


Fig: Publication details of Civil Engineering Department during 2023-2024

1.1 Academic Staff:

HEAD of the Department: Dr. Arjun Sil, Associate Professor

**Name of Faculty members:**

Professor	Associate Professor	Assistant Professor
Prof. Dilip Kumar Baidya	Dr. Tauhidur Rahman	Dr. Nirmali Borthakur
Prof. Ashim Kanti Dey	Dr. Arjun Sil	Dr. Pallab Das
Prof. Parthasarathi Choudhury	Dr. Nirmalendu Debnath	Dr. Parbin Sultana
Prof. Aminul Islam Laskar	Dr. Dillip Kumar Ghose	Dr. Nitesh Ahir
Prof. Dibakar Chakraborty	Dr. Debjit Bhowmik	Dr. Bijan Kumar Roy
Prof. Mokaddes Ali Ahmed	Dr. Monowar Hussain	Dr. Prashanth Janardhan
Prof. A.K. Barbhuiya	Dr. Lakshmi Vara Prasad. M	Dr. Subhrajit Dutta
Prof. Upendra Kumar	Dr. Briti Sundar Sil	Dr. Amit Kumar Das
Prof. Parthajit Roy	Dr. Khwairakpam Lakshman Singh	Dr. Ambika Kuity
	Dr. Susmita Ghosh	Dr. Olympa Baro
		Dr. Suprava Jena
		Dr. Atanu Sahu
		Dr. Kulkarni Vihangraj Vijaykumar
		Dr. Jyotirmoy Haloi
		Dr. Jayshree Hazarika
		Dr. Dinesh Panneerselvam
		Dr. Subhadip Biswas
		Dr. M. Selvam
		Dr. Subhadeep Biswas
		Dr. Rajarshi Pramanik
		Dr. Subhajit Das
		Dr. Dipanjan Mukerjee
		Dr. Bhupali Dutta

Visiting Professor (If any): NIL**1.2 Distinction Achieved****a) By Student:**

- **Masoom Sahu (2111021)** and **Aditya Ranjan (2111070)** appeared as finalists in the Dark Pattern Buster Hackathon (DPBH-2023) organized by the Department of Consumer Affairs, GOI, held on February 16-18, 2024.
- The "TEAM ULTRON", comprising **Lakshay Pareek (2311080)**, **Sittu Kumar (2311079)** and the others became winner of "Robosoccer" under ROBOTRON module held by TECNOESIS, NIT Silchar in February 2024.



- **Lakshay Pareek (2311080)** and group became winners of “Cosmothron” under NAKSHATRA SAMAGAM module held by TECNOESIS, NIT Silchar in February 2024.
- The “TEAM MAX”, comprising **Koushik Ranjan Das (2211043)** and the others became runner-up of “Robowar” under the ROBOTRON module held by TECNOESIS, NIT Silchar in February 2024.
- The band "ABRA," comprising **Rajdeep Bezbaruah (2211007)** and the others secured second position in the Lakeside Dreams music competition held during SPRINGFEST 2024 at IIT Kharagpur. on January 20, 2024.
- The bans “The Last Minute”, comprising **Tshering Doma Bhutia – (2111003) (Singer)**, and the others, became the winner of “Battle of Battles” event, hosted by Symphonits (Music Club of NITS) as a part of INCANDESCENCE Cultural Fest, 2024.
- **Bhola Saw (2311142)** won third position in "Crack the Job" event of CIVOTECH, organised by Civil Engineering Society, CED, NIT Silchar, in the academic year 2023-2024.
- **Bhola Saw (2311142)** won the "Best Parliamentarian Award" in YOUTH PARLIAMENT organised by NITSMUN, NIT Silchar on November 5, 2023.
- **Sayan Dey (2211035)** won 3rd prize in the debate competition in the NORTHEAST Y20 CONCLAVE held at NIT Silchar in August 2023.

b) By Faculty Member:

- **Prof. Upendra Kumar** has been nominated as Advisor, UPSC by Secretary UPSC to advise the selection process of Scientist and Engineers.
- **Prof. Upendra Kumar** - Ranking for Scientist: AD Scientific Index 2023
 - Scientist in Civil Engineering: Best #1 at NIT Silchar, #57 in India, #358 in Asia, #1462 in World
 - H Index (Score 28) : #10 at NIT Silchar.
 - Total i10 Index (Score 118) : #3 at NIT Silchar, #1602 in India.
 - Engineering and Technology: #7 at NIT Silchar, #1282 in India.

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) Conducted by Faculty Member

Sl. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	Dr. Vihangraj Kulkarni	CPCB Sponsored Training Programme on “Landfill groundwater pollution management and valorization of mining/industrial wastes through bio composting and waste to energy”	Central Pollution Control Board, New Delhi	31 Jan - 2 Feb 2024
2	Dr. Prashanth J, Dr. Susmita Ghosh	International Conference on Water Resources, Ocean and Environmental Engineering (ICWROEE) 2024	Self-sponsored	17-18 Feb 2024



3	Dr. Atanu Sahu, Dr. Amit Kumar Das, Dr. Susmita Ghosh	International Conference on Natural Disaster: Risk Analysis, Management and Mitigation (NDRAMM) 2024	Assam State Disaster Management Authority and Indian Geotechnical Society Silchar Chapter	23 - 24 Mar 2024

b) Participated by Faculty Member

Sl. No.	Name of Faculty	Details of the Program	Organizing Institute
1	Dr. Dipanjan Mukherjee	Short Term Course on "Highways in Hilly Region (HHR-2024)"	Department of Civil Engineering, NIT Uttarakhand
		PowerPoint Using AI & ChatGPT - LIVE Workshop	Skill Nation
2	Dr. Jayshree Hazarika	Water Resources Management and Fluvial Hydraulics in Steep Mountain Stream	Department of Civil Engineering, NIT Jalandhar
3	Dr. Subhadeep Biswas Dr. Prashanth J Dr. Dinesh P	CPCB sponsored training program	Department of Civil Engineering, NIT Silchar and Assam University
4	Dr. Subhadeep Biswas Dr. Prashanth J Dr. Dinesh P Dr. Kulkarni Vihangraj Vijaykumar	International Conference on Water Resources, Ocean and Environmental Engineering	Department of Civil Engineering, NIT Silchar
5	Dr. Subhadeep Biswas Dr. Prashanth J Dr. Dinesh P Dr. Kulkarni Vihangraj Vijaykumar Dr. Nitesh Ahir Dr. Jyotirmoy Haloi	International Conference on Natural Disaster: Risk Analysis, Management and Mitigation	Department of Civil Engineering, NIT Silchar
6	Dr. Kulkarni Vihangraj Vijaykumar	Faculty Development Programme on Power Converters for Green energy and EV Integration	NIT Rourkela

1.4 Research Development
a) Ph.D. Programme (Specializations):

- Geotechnical Engineering (GE)
- Water Resources Engineering (WRE)
- Structural Engineering (SE)



- Structural Dynamics and Earthquake Engineering (SDEE)
- Transportation Engineering (TE)
- Environmental Engineering (ENVE)

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

Completed	Submitted	Ongoing
8.5	7	41

c) Lab / Workshop:

Sl. No.	Name of Lab/Workshop	Purpose/Linkage to an existing/new programme
1	Structural Engineering Laboratory	To conduct UG and PG lab (Structural Engineering, Structural Dynamics and Earthquake Engineering) and to serve the PhD research, R&D and Consultancy.
2.	Water Resources Engineering (WRE) Laboratory	To conduct Hydraulics and Hydrology Experiments at UG and PG Levels and to serve the PhD research, R&D and Consultancy.
3	Concrete Laboratory	To conduct UG and PG lab (Material Testing & Concrete Mix Design) and to serve the PhD research, R&D and Consultancy
4	Environmental Engineering Laboratory	To conducting UG practical, PG research and consultancy services
5	Transportation Engineering	To conduct UG and PG lab (Material Testing & Mix Design) and to serve the PhD research and Consultancy
6	Earthquake Engineering Lab	Seismic Motion Recorder
7	Survey Lab	To conduct field surveying for UG students
8	Geology Lab	To teach UG students the fundamentals of geology related to crystallography and mineralogy
9	Geotechnical Engineering Lab	To teach and conduct geotechnical engineering testings for UG and PG students
10	NABL Lab	NABL accredited Lab to conduct various experiments for consultancy and research work

d) Ongoing/Completed Sponsored Research Project:

Sl. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
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1	Fund for Improvement of SandT Infrastructure (FIST): To Strengthen the Research Facilities in the Department	Dr. Ashim Kanti Dey Dr. Amit Kumar Das Dr. Atanu Sahu Dr. Subhrajit Dutta Dr. MLV Prasad	DST, Govt of India	168.00 Lakhs	5 years
2	Development of a Vibration Isolation System using Boreholes Filled with Geosynthetic Encased Sand Rubber Mixture	Dr. Debjit Bhowmik	SERB-DST	41.3 Lakhs	3 years
3	Development of spatial map of available water resources with water quality index for the Barak River basin for drinking purposes along with the development of an indigenous household filtration system	Dr B S Sil (PI) and Dr Kulkarni Vihangraj Vijaykumar	SERB-DST	38 Lakhs	3 years
4.	Sustainable development of groundwater resources by the preparation of hydrogeological and hydro geophysical database of Barak River basin, Cachar, Assam	Dr. Susmita Ghosh (PI), Dr. Amit Kumar Das Dr. Sudha Agrahari	SERB-DST	48.42 Lakhs	3 years
5.	Development of Sustainable and Flood Resilient Low-Cost Amphibious Housing System for the Vulnerable Communities in Assam	Dr. Jyotirmoy Haloi	SERB-DST	30.61 Lakhs	2 years
6.	Establishment of Science Technology and Innovation Hub in NIT Silchar, Cachar, Assam, for the socio-economic upliftment of SC/ST population in Assam	Dr. Olympa Baro (Co-PI)	DST-SEED	144 Lakhs	3 years
7.	Design and development of solar photovoltaic powered cane slicing machine	Dr. Suprava Jena	DST-SEED	24.1 lakhs	3 years
8.	Reducing riders' discomfort due to speed bumps without compromising their speed reduction abilities	Dr. Suprava Jena	SERB-POWER	11 Lakhs	2 years
9.	On performance of structural damage detection based on: mathematical and machine-learning models in harmony, and domain adaptation with scaled physical model using limited sensors	Dr. N. Debnath	SERB-CRG	25.51 Lakhs	3 years

e) Research Paper Reviewed

Sl. No	Faculty Name	Journal Name	No. of Paper	Year
1	Dr. Jayshree Hazarika	Journal of The Institution of Engineers (India): Series A (IEIA)	1	2024



2	Dr.Subhadeep Biswas	Chemical Papers	1	2023
		Chemical Papers	1	2024
3	Dr. Subhadip Biswas	Journal of Transportation Engineering, Part A: Systems	5	2023, 2024
		Transportation Research Record	2	
4	Prof. M. Ali Ahmed	Case Studies on Transport Policy	4	2023
		Travel Behaviour and Society	1	2023
		Conference of the Transportation Research Group of India	2	2023
5	Dr. Nitesh Ahir	Journal of The Institution of Engineers (India): Series A	2	2023
6	Dr Prashanth J	Sadhana	2	2024
		Journal of The Institution of Engineers (India): Series A	1	2023
		Geo-Spatial Information Science	1	2023
7	Dr.D.K.Ghose	Transaction in GIS, Willey	1	2023
		Earth Science Informatics, Springer	1	2023
		Water Resources Management, Springer	1	2024
		Journal of Hydrologic Engineering ASCE	1	2024
		Environmental Monitoring and Assessment, Springer	1	2024
8	Dr.L.V.Prasad M	Advances in Concrete Construction	1	2024
		International Conference on Civil and Environmental Engineering for Resilient, Smart and Sustainable Solutions (CEES 2024)	1	2024
		Iranian Journal of Science and Technology, Transactions of Civil Engineering	2	2024
		International Journal of Pavement Engineering	1	2024
		International Conference on Natural Disaster: Risk Analysis, Management and Mitigation (NDRAMM - 2024)	1	2024
		Innovative Infrastructure Solutions (IISS)	2	2024
		International Journal of Civil Engineering	1	2024
		Practice Periodical on Structural Design and Construction	1	2023
9	Dr. Dipanjan Mukherjee	Accident Analysis and Prevention	1	2024
		Transportmetrica A: Transport Science	1	2024
		Scientific Reports	1	2024
		Traffic Injury Prevention	1	2024



		TRF: Traffic Psychology and Behaviour	1	2024
10	Dr. Bhupali Dutta	Conference of the Transportation Research Group of India	4	2023
		Transportation Research Board Annual Meeting	2	2023, 2024
11 12	Dr. Ambika Kuity	Construction and building materials	15	2023-2024
		Mechanics of time-dependent materials	1	2024
13	Dr. Susmita Ghosh	Water Science and Technology	1	2023
14	Dr. Jyotirmoy Haloi	Journal of The Institution of Engineers (India): Series A	1	2023
15	Dr. Arjun Sil	Natural Hazards Research	3	2023
		Iranian Journal of Science and Technology, Transactions of Civil Engineering	1	2023
		Int. J. of Reliability and Safety, Inderscience publication	1	2023
		Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering (ASCE-ASME)	1	2023
		Practice Periodical on Structural Design and Construction (ASCE)	1	2023
		Indian Geotechnical Journal (Springer Publication)	1	2024
		Natural Hazards Review(ASCE)	1	2024
		ASCE's Practice Periodical on Structural Design and Construction	1	2024
7	Dr.D.K.Ghose	Transaction in GIS, Willey	1	2023
		Earth Science Informatics, Springer	1	2023
		Water Resources Management, Springer	1	2024
8	Dr. Parbin Sultana	Steel and Composite Structures, An International Journal	1	2023
		Computers and Concrete, An International Journal	1	2024
		Journal of Soft Computing in Civil Engineering	1	2024
		Indian Geotechnical Journal	2	2024

f) Chairing of the Technical Session

Sl. No.	Faculty Name	Details
1	Prof. Upendra Kumar Dr. Jayshree Hazarika Dr. Prashanth J Dr. Kulkarni Vihangraj Vijaykumar Dr. Dinesh P	Session chair for International Conference on Water Resources, Ocean and Environmental Engineering (ICWROEE) 2024, organized by Department of Civil Engg, NIT Silchar, 17-18 Feb 2024



2	Prof. Upendra Kumar Dr. Prashanth J Dr.L.V.Prasad M Dr. Susmita Ghosh Dr. Nitesh Ahir	Session chair for International Conference on NDRAMM-2024, organized by Department of Civil Engg, NIT Silchar, 23-24 March, 2024

1.5 PUBLICATION

a) Journal(s):

1. Pramanik, R., and Sivakumar Babu, G. L. (2023). "Reliability-based load and resistance factors for soil nail walls against facing failures." International Journal of Geosynthetics and Ground Engineering. 9 (3): 27.<https://doi.org/10.1007/s40891-023-00447-w>
2. Dabholkar, T., Narayana, H. and Janardhan, P. (2023). "A review of soft computing techniques in predicting the compressive strength of concrete and the future scope", Innovative Infrastructure Solutions 8, 176. <https://doi.org/10.1007/s41062-023-01150-5>.
3. Janardhan, P., Narayana, H., and Darshan, N. (2023). "Compressive strength studies of concrete with partial replacement of cement and fine aggregate with incinerated solid waste and recycled plastic waste", Materials Today: Proceedings. <https://doi.org/10.1016/j.matpr.2023.03.252>.
4. Bokadia, A. and Ahmed, M.A. (2023). "On-street night parking demand estimation in a residential area: Roorkee", Advances in Transportation Studies, 61, 243-254. DOI: 10.53136/979122180919016.
5. Khan, H.R., Ahmed, M.A. and Dutta, M.(2023). "A comprehensive MADM based approach for evaluating walkability of a busy market area using GRA and COPRAS: A case study of Aminabad, Lucknow", Advances in Transportation Studies, 60, 107-124. DOI: 10.53136/97912218074247.
6. Swami, L., Ahmed, M.A. and Jena, S. (2023), "Understanding ground access dynamics at Lokpriya Gopinath Bordoloi International Airport, Guwahati: A case study analysis", Innovative Infrastructure Solutions, 8 (12), 333. DOI: 10.1007/s41062-023-01301-8.
7. Das, P. and Ahmed, M.A.(2023). "Effects of parking price on parking demand in the central business district, Silchar", Advances in Transportation Studies, 61, 277-288. DOI: 10.53136/979122180919018.
8. Hasain, N.M., Ahmed, M.A., Jena S. and Khan H.R. (2023). "Comparison of different calibration methods in modelling the unsignalized intersection using VISSIM with vehicular flow as the fitness measure", Advances in Transportation Studies, 60, 17-32. DOI: 10.53136/97912218074242.
9. Bokadia, A. and Ahmed, M.A. (2023). "Evaluation of on-street night parking demand: A case study of Roorkee city", European Transport - TrasportiEuropei, Issue 94, 2023, DOI: 10.48295/ET.2023.94.4.
10. Hasain, N.M. and Ahmed, M.A. (2023). "Proposing an effective approach for traffic safety assessment on heterogeneous traffic conditions using surrogate safety measures and



- speed of the involved vehicles”, *Traffic Injury Prevention*, 25 (2), pp. 219-227. DOI: 10.1080/15389588.2023.2289343.
11. Sriharsha, S. and Ghose, D.K. (2023). “Geospatial modelling of groundwater potential using multi-criteria decision analysis in a humid subtropical region, India”. *Traffic Injury Journal of The Geological Society of India*. 11, pp. 1532-1538, DOI:<https://doi.org/10.1007/s12594-023-2505-8>.
 12. Athar, M. and Prasad, L.V. M. (2023). “Carbonation behavior of concrete produced using CO₂ as an admixture,” *Cement-Wapno-Beton (Cement Lime Concrete)*, 28(6), pp. 364-374, doi: <https://doi.org/10.32047/CWB.2023.28.6.1>.
 13. Bhvani, S. and Prasad, L.V. M. (2023). “Low carbon cement (LC3) as a sustainable material in high strength concrete.” *Materiales de Construcción*. 73 (352). DOI: 10.3989/mc.2023.355123).
 14. Bhavani, S. and Prasad, L.V. M. (2023). “Strength and durability properties of SCC developed using limestone calcined clay cement (LC3).” *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2023.04.497> (Scopus).
 15. Sapkota, S.C., Saha, P., Das S. and Prasad L.V. M. (2023). “Prediction of the compressive strength of normal concrete using ensemble machine learning approach.” *Asian Journal of Civil Engineering*, vol.25, 583-595, 2024, <https://doi.org/10.1007/s42107-023-00796-x>
 16. Mazumder, E. A. and Prasad, L.V. M. (2023). “Mechanical Strength Estimation of Self Compacting Geopolymer Concrete using ReLU based Deep Neural Network, *Advances in Materials and Processing Technologies*, Published online: 04.05.2023, <https://doi.org/10.1080/2374068X.2023.2206701>.
 17. Mazumder, E. A. and Prasad, L.V. M. (2023). Probabilistic Estimation for Mechanical Properties of Self-Compacting Geopolymer Concrete Using Machine Learning Technique, *Arabian Journal for Science and Engineering*, Volume 48, pages 13591–13604, (2023), <https://doi.org/10.1007/s13369-023-07866-x>.
 18. Shaw, S.K., Ghosh, S., Dey, A. and Sil, A. (2023). “Comparative experimental investigation for assessing the Dynamic Performance Index (DPI) on cyclic loading behaviours of RC beam-column joints employing fly ash concrete”. *Iranian Journal of Science and Technology, Transactions of Civil Engineering*, 47, 3233-3257. <https://doi.org/10.1007/s40996-023-01108-8>.
 19. Sabah, N., and Sil, A. (2023). “A comprehensive report on the 28th September 2018 Indonesian Tsunami along with its causes.” *Natural Hazards Research*, 3(3), 474-486. <https://doi.org/10.1016/j.nhres.2023.06.003>.
 20. Borah, M. M., and Sil, A. (2023). “Service-Life Estimation of a Reinforced Concrete Bridge Structure Exposed to Chloride-Contaminated Environments and Variable Traffic Loads.” *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, 9(4). <https://doi.org/10.1061/AJRUA6.RUENG-1054>.
 21. Talukdar, P., Mokenepally, T., and Kulkarni, V. V. (2023). “Lake water quality assessment using spatial interpolation and the development of the WQI on an educational campus,

- Assam, India." *Water Practice & Technology*, 18(10), 2244-2257. doi: <https://doi.org/10.2166/wpt.2023.138>.
22. Chatterjee, S., Sultana, P. and Jayalekshmi, S. (2023) "Terrain, Slope, and Geological Stratification Modelling of a Site in Southwest Delhi District, NCT of Delhi, India Using Various Software." *Indian Geotechnical Journal*, 53, 916–923 <https://doi.org/10.1007/s40098-023-00716-5>.
 23. Karna, P., Muduli, P.K. and Sultana, P. (2023). "Evaluation of Liquefaction Potential of Soil Using Soft Computing Techniques." *Indian Geotechnical Journal*, 54, 489-499, <https://doi.org/10.1007/s40098-023-00786-5>
 24. Biswas, S., Nath, A., and Pal, A. (2024). "Fabrication of a novel alginate-xanthan biopolymer hydrogel bead for cationic surfactant removal from aqueous medium". *International Journal of Environmental Science and Technology*, 21(9), 6663-6676. <https://doi.org/10.1007/s13762-023-05421-7>.
 25. Mukherjee, S., R. Pramanik, and G. L. Sivakumar Babu. (2024). "Probabilistic assessment of anchor foundation for transmission tower using multivariate adaptive regression splines." *Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards*. 18 (3): 541–557. <https://doi.org/10.1080/17499518.2024.2302132>.
 26. Mukherjee, D. and Kumar, A. (2024). "Identification of factors influencing pedestrian perceived safety and satisfaction level using ordered logit models in an Indian mid-sized city"; *International Journal of Transport Development and Integration*, 8(2). doi: <http://dx.doi.org/10.18280/ijttdi.080207>
 27. Gautam and Bhowmik, D. (2023). "Application of lime-rice husk ash mixture (LRHA) for the stabilization of fine-grained soil: a state-of-the-art review"; *Innovative Infrastructure Solutions*, 8(11). doi:10.1007/s41062-023-01269-5.
 28. Mishra, S., Kumar, A., and Sil, A. (2024). "Comprehensive seismic hazard assessment for Guwahati City, Northeast India: Insights from probabilistic and deterministic seismic hazard analysis." *Natural Hazards Research*, 4(3), 423-433. <https://doi.org/10.1016/j.nhres.2023.10.005>.
 29. Dey, A., and Sil, A. (2024). "Application of ANN for Estimating Time-Variant Structural Reliability of Reinforced Concrete Structures Using Approximate Approach." *Practice Periodical on Structural Design and Construction*, 29(2). <https://doi.org/10.1061/PPSCFX.SCENG-1412>.
 30. Biswas, S., and Sil, A. (2024). "Tsunami Vulnerability Assessment Using GIS and AHP Technique for Southern Coastal Region of India." *Natural Hazards Review*, 25(3). <https://doi.org/10.1061/NHREFO.NHENG-1594>.
 31. Talukdar, P., Kumar, B. and Kulkarni, V. V. (2023). "A review of water quality models and monitoring methods for capabilities of pollutant source identification, classification, and transport simulation." *Reviews in Environmental Science and Bio/Technology*, 22, 653–677. <https://doi.org/10.1007/s11157-023-09658-z>



32. Gupta, S. V., Kulkarni, V. V., and Ahmaruzzaman, M. (2024). "Fabrication of a bio-adsorbent material by grafting CeO₂ quantum dots (QDs) over Areca nut shell biochar using Saccharum officinarum extract as a solvent/capping agent for adsorption of Methylene blue dye: Synthesis, material analyses, adsorption kinetics and isotherms studies." *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 68, 132611. <https://doi.org/10.1016/j.colsurfa.2023.132611>
33. Gupta, S. V., Kulkarni, V. V., and Ahmaruzzaman, M. (2024). "ZIF-8 incorporated CeO₂-CdS quantum dots@ 2D g-C₃N₄ nanosheets as a staggered type II heterojunction for decolouration of a set of dyes." *Journal of Environmental Chemical Engineering*, 12(1). <https://doi.org/10.1016/j.jece.2023.111642>.
34. Gupta, S. V., Kulkarni, V. V., and Ahmaruzzaman, M. (2024). "A robust bio-source mediated CeO₂-SnS₂ quantum dots@ Oryza sativa var. biochar, photo-adsorbent for removal of Baszol Violet 57L dye from aqueous discharge: Development, materialistic analyses, and its application." *Journal of Water Process Engineering*, 60. <https://doi.org/10.1016/j.jwpe.2024.105159>
35. Ahmed, S. S., Ghosh, S., and Barbhuiya, A. K. (2024). "Flow resistance co-efficient of meandering river in alluvial plain and its prediction using artificial neural network." *International Journal for Numerical Methods in Fluids*, 96(3), 364-379. DOI: [10.1002/flid.5247](https://doi.org/10.1002/flid.5247)
36. Chatterjee, S., Sultana, P., Jayalekshmi, S., Ralli, R. (2024) Estimation of Compression Index of Cohesive-Frictional Soil in Southwest Delhi District Using Statistical Correlations. *Jour. Geol. Soc. India*; 100 (6): 841–851. doi: <https://doi.org/10.17491/jgsi/2024/173914>
38. Biswas, S., Hussain, M and Sigh, K.L. (2023) "Behavior of Bamboo and Jute Geocell Overlaying Soft Subgrade under Repeated Wheel Loading" *Journal of Materials in Civil Engineering*, (ASCE), 36 (2). DOI:10.1061/JMCEE7.MTENG-16528.
39. Debbarma, S. and Biswas, S. (2024). "Mutual area in lateral distribution: An indicator of head-on crash potential at horizontal curves on hilly highways". *Journal of Transportation Engineering, Part A: Systems*, Vol. 150 (7). DOI: 10.1061/JTEPBS.TEENG-8088.
40. Bhowmik, K., and Debnath, N. (2024). "Semi-active Vibration Control of Soft-Storey Building with Magnetorheological Damper Under Seismic Excitation". *Journal of Vibration Engineering & Technologies*, 12(4), 6943-6961. <https://doi.org/10.1007/s42417-024-01292-5>
41. Nath, S., Debnath, N., and Choudhury, S. (2024). "Structural Performance of Slotted Reinforced Concrete Bridge Pier". *Practice Periodical on Structural Design and Construction*, 29(2), 04024009. <https://doi.org/10.1061/PPSCFX.SCENG-1387>
42. Mohabey, D. P., Nongkynrih, J. M., & Kumar, U. (2023). "Spatio-temporal analysis of land use/land cover change and urban growth dynamics of Silchar City, India using very high-resolution satellite data and the Shannon entropy model." *Land Degradation & Development*, 1–22. <https://doi.org/10.1002/ldr.4608> (SCIE)
43. Mohabey, D. P., Nongkynrih, J. M., & Kumar, U. "Urban Growth Trend Analysis of Proposed Greater Silchar City, India using Landscape Matrices and Shannon Entropy

Model.” Environment, Development and Sustainability Published online: 31 July 2023
<https://org/10.1007/s10668-023-03681-4> (SCIE)

b) International Conference(s):

1. M.L.V. Prasad, Endow Ayar M and L.R.P. Reddy, Durability Studies of Conventional Cement Concrete and Geopolymer Concrete, 5th Asia Conference on Material and Manufacturing Technology (ACMMT 2023) , 22 – 24 november 2023 , Chiang Main University, Thailand.
2. Hasain, N. M., Ahmed, M. A. and Reddy, B. V. (2023). “Modelling and Calibration of a Mixed Traffic Road Section in VISSIM with Multiple Measure of Effectiveness through Genetic Algorithm.”, *7th Conference of Transportation Research Group of India (CTRG-2023)*, Dec. 17-20, 2023, NIT Surat.
3. Borra, R., and Meesaraganda, L. V. P., (2023). “Effect of Basalt Fibre in Functionally Graded Concrete.” *International Conference on Condition Assessment, Rehabilitation & Retrofitting of Structures (CARRS 2023)*, Department of Civil Engineering, IIT Hyderabad, Dec. 10-13, 2023.
4. Sarkar, A., Mazumdar, A., and Bhowmik, D., (2023). “Application of Soft Computing Techniques for Prediction of Seismic Wave Velocity.” *9th International Conference on Control, Decision and Information Technologies (CoDIT)*, Jul. 03-06, 2023, Rome, Italy, pp: 2532-2537, IEEE.
5. Haloi, J., Borsaikia, A. C., Singh, K. D., and Mushahary, S. K., (2023). “Behaviour of Pultruded GFRP Channel Beams under Transverse Loading.” *IASTEM International Conference*, Kuala Lumpur, Malaysia, May 2023.
6. Taser, T., Dinesh, P. and Nelson, M., (2023). "Multiphase Flow Modelling Using Reduced Order Model and Full Scale Model: A Comparison." *International Conference on Petroleum, Hydrogen and Decarbonization (ICPHD 2023)*, Department of Chemical Engineering, IIT Guwahati, Nov. 03-05, 2023.
7. Prashanth, J., Harish, N., Vindhya, S. (2024). “Temporal Change Studies in Kaziranga National Park.” *7th International Conference on Machine Vision and Applications (ICMVA 2024)*, Mar. 12-14, 2024 Singapore.
8. Das, K., Prashanth, J. and Singh, M. R. (2024). “Oil Spill Detection in SAR Images: A U-Net Semantic Segmentation Framework with Multiple Backbones.” *International Conference on Water Resources, Ocean and Environmental Engineering (ICWOREE 2024)*, Department of Civil Engineering, NIT Silchar, Feb. 17-18, 2024.
9. Singh, M. K., Ghosh, S., (2024). “Analysis of the Waterlogged Groundwater System of Cachar, Assam using MODFLOW.” *International conference on water resources, ocean and environmental engineering (ICWROEE 2024)*, Department of Civil Engineering, NIT Silchar, Feb. 17-18, 2024.
10. Nath, A., Ahmed, S. S., Prakash, S., Ghosh, S., Pore, S. M., (2024). “Land Use and Land Cover Change Analysis using GIS and Remote Sensing: A Case Study of Sutlej Watershed,



Punjab." *International conference on water resources, ocean and environmental engineering (ICWROEE 2024)*, Department of Civil Engineering, NIT Silchar, Feb. 17-18, 2024.

11. Nath, A., Ghosh, S., (2024). "Hydro-Morphological Responses of Meandering Rivers to Changes in Rainfall: A Comprehensive Study on Barak Flood Plain." *International Conference on Natural Disaster: Risk Analysis, Management and Mitigation (NDRAMM - 2024)*, Department of Civil Engineering, NIT Silchar, Mar. 23-24, 2024.
12. Taser, T., Rahman, T. and Dinesh, P., (2024). "Site Specific Seismic Response Analysis for Different Sites in Itanagar City." *International Conference on Natural Disaster: Risk Analysis, Management and Mitigation (NDRAMM -2024)*, Department of Civil Engineering, NIT Silchar, Mar. 23-24, 2024.
13. Das, P., Pandey, A. and Das, T. K. (2024). "Effect of Diagrid Structural Systems with varied Angles on the Seismic Performance of RC Frame Buildings." *International Conference on Natural Disaster: Risk Analysis, Management and Mitigation (NDRAMM -2024)*, Department of Civil Engineering, NIT Silchar, Mar. 23-24, 2024.
14. Singh, A. K., Das, P. and Sahu, A. (2024). "Impact of Slope Angle Variation on Vulnerability of Structures in Hilly Terrain: A Comprehensive Analysis with Soil–Structure Interaction." *International Conference on Natural Disaster: Risk Analysis, Management and Mitigation (NDRAMM -2024)*, Department of Civil Engineering, NIT Silchar, Mar. 23-24, 2024.
15. Saharia, M. and Singh, K.L. (2023). "Use of Domestic Waste Polyethylene as a Bitumen Modifier in Bituminous Pavement Applications." *5th Asia Conference on Materials and Manufacturing Technology (ACMMT-2023)*, Chiang Mai University, Thailand, Nov. 22-24, 2023,.
16. Das, P., and Singh, L. I. (2024). "Numerical Analysis of Hybrid Fibre-Reinforced Concrete Beam-Column Joint." *8th International Conference on Applied Engineering, Materials and Mechanics (8th ICAEMM 2023)*, Seoul, South Korea, July 14-16, 2023.
17. Debnath, J and Singh, K.L (2023). " Performance of Bituminous Concrete Mixes using Waste Eggshell as a Bitumen Modifier" *International Conference on Creative and Innovative Solution in Civil Engineering (CISCE- 2023)*, 11-12 August 2023, Malaviya National Institute of Technology Jaipur, India.
18. Noatia, B and Singh, K.L (2023). " Experimental Investigation on the Performance of Bituminous Mixtures Containing Brick and Iron Dust" *International Conference on Creative and Innovative Solution in Civil Engineering (CISCE-2023)*, 11-12 August 2023, Malaviya National Institute of Technology Jaipur, India.

c) National Conference(s):

- Roy, P. and Sultana, P. (2023). "Reliability Analysis of Tunnel for different support systems in elastic-perfectly plastic rock mass using Hoek and Brown criterion." *Indian Geotechnical Conference, (IGC 2023)*, Roorkee, Dec. 14th-16th 2023.



d) Book/Chapter:

1. Hazarika, J. and Boro, M. (2023). "Impact of Climate Change on Precipitation Extremes in Northeast India Under CMIP5 Models." In *Climate Change Impact on Water Resources. HYDRO 2021. Lecture Notes in Civil Engineering*(vol 313). Springer, Singapore.
2. Hazarika, J. and Phukan, D. (2023). "Assessment of Precipitation Extremes in Northeast India Under CMIP5 Models." In *Climate Change Impact on Water Resources. HYDRO 2021. Lecture Notes in Civil Engineering* (vol 313). Springer, Singapore.
3. Das, P., Bokadia, A. and Ahmed, M.A. (2024). "Evaluating the Parking Characteristics and Parking Demand of On-Street Parking in Silchar City." *Lecture Notes in Civil Engineering*(vol. 434, pp. 855-862). Springer, Singapore.
4. Swami, L., Ahmed, M.A. and Jena, S. (2024). "Quality Assessment of App-Based Bike Taxi Services by Benchmarking and Numerical Rating Approach: Guwahati." *Lecture Notes in Civil Engineering*(vol. 434, pp. 735-745). Springer, Singapore.
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17. Singh, V., Bharali, K., Kalita, I., Roy, M., Debnath, N., Saharia, M., and Das, A. (2024). "Inception Time Model for Structural Damage Detection Using Vibration Measurements." In *Congress on Intelligent Systems, Lecture Notes in Networks and Systems* (vol. 869, pp. 103-122), Springer Nature, Singapore.

1.6 CONSULTANCY SERVICES:

Sl. No.	Faculty name	Month of work	client	Amount	Work Details
1	Dr. V. Kulkarni Co- Dr. P. Das Co-Dr. Dulal Chandra Das	April 2023	Surya International Enterprise Private Ltd. A/24,BDA HIGH DUPLEX ANANT VIHAR, PHASE-2 POKHARIPUT, BHUBANESWAR	1180000.00	Vetting of design & Drawing for Rural Piped water supply Project
2	Dr. D.k Ghose	April 2023	GM/ Proj RVNL/VZm	583200.00	prof Checking
3	Dr. P.Das	April 2023	Housefed, Assam, Assam State Co-	177000.00	prof Checking



			Operative Housing Federation Ltd. Guwahati		
4	Dr. D.K Ghose	May 2023	Chief Project Manager , RVNL , kharagpur	159000.00	Proof checking
5	Dr. A.I Laskar	May 2023	EE, PWD, Udharbond, Lakhipur, Barkhola & Katigora Building Divn	118000.00	prof checking
6	Dr. A.I Laskar	May 2023	EE, PWRD, Silchar & Udharbond Territorial Divn	108000.00	Design Drawing etc
7	Dr. A.K Dey	May 2023	Aquagreen engineering management Pvt, Ltd	160480.00	CA, FA
8	Dr. B.S Shil	July 2023	EE, PWD , Karimganj District Territorial Building Division	102070.00	Mix Design , Bricks , Steel
9	Dr. V. Kulkarni Co- Dr. P. Das Co-Dr. Dulal Chandra Das?	September 2023	Surya International Enterprise Private Ltd. A/24,BDA HIGH DUPLEX ANANT VIHAR, PHASE-2 POKHARIPUT, BHUBANESWAR	590000.00	Vetting of design & Drawing for Rural Piped water supply Project Mix Design
10	Dr. V. Kulkarani & Dr.L.V.Prasad M	September 2023	Universal Contractor & Engineers Pvt. Ltd. E-263, Alpha-	400000.00	Vetting



			1, Noida Gautam Buddha Nagar, U.P		
11	Dr. A.K Dey	September 2023	District Commissioner	236000.00	Soil Investigation
12	Dr. D.K Ghose	September 2023	Chief Project Manager RVNL , Kharagpur	531060.00	prof checking
13	Dr. D.K Ghose	September 2023	AECS Pvt. Ltd. Bhubaneswar odisha	141600.00	Prof Checking
14	Dr. T. Rahaman	November 2023	EE (SG), Garrison Engineer Silchar, MES C/o 99 APO	948248.00	Design and Drawing
15	Dr. A.K Dey	November 202	EE, CPWD , Silchar	265000.00	Structural Design
16	Dr. P.Das	october 2023	General Manager Shillong Smart City Ltd. Meghalaya	307800.00	prof checking
17	Dr. D.K Ghose	February 2024	Rail Vikash Nigam Limited, Bhubaneswar & Sr. DGM/Civil/Expt	533500.00	Proof Checking
18	Dr. P.Das	February 2024	Telecommunications Consultants India Ltd. A1/A-36A, CHALT LANG MAUL VENG, NEAR LOCAL COUNCIL OFFIC	129600.00	TPQA Testing
19	Dr. M.L.V Prasad, Dr. D. Bhowmik, Dr. Arjun Shil	March 2024	Rahee Infratech	112808.00	OPC 53 Cement property, Mix Design, Steel



					Strength (Karimganj)
20	Dr. B.K. ROY, Dr. D.K. Ghose, Dr. N Debnath	March 2024	Rahee Infratech	112808.00	OPC 53 Cement property, Mix Design, Steel Strength (Jagiroad)
21	Dr. D.K Ghose	March 2024	Rail Vikas Nigam Ltd. Bhubaneswar	265000.00	Prof checking of design and drawing of RCC

1.7 MAJOR EQUIPMENT ACQUIRED:

1.8 PATENT:

Sl. No.	Details	Year
1	Patentee: Dr.L.V.Prasad M & Md.Athar Kazmi, Indian Patent Number : 431771, Application Number : 202231045308, Title : AN APPARATUS AND METHOD FOR CO2 MINERALIZATION INTO CONCRETE, Granted by Indian Patent office, India, Granted on 15/05/2023.	2023

1.9 VISITS TO ABROAD

Sl.No.	Name of the Faculty	Name of the Conference/ Programme	Place	Date
1	Dr.L.V.Prasad M	5th Asia Conference on Material and Manufacturing technology (ACMMT - 2023)	Chiang Mai University, Thailand	22nd to 24th November 2023
2	Dr. Kh. Lakshman Singh	5th Asia Conference on Material and Manufacturing Technology (ACMMT- 2023)	Chiang Mai University, Thailand	22nd to 24th November 2023
3.	Dr. Pallab Das	The 8th International Conference on Applied Engineering, Materials and Mechanics (8th ICAEMM 2023)	Seoul, South Korea	July 14-16, 2023

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

Sl. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project



1.	Ashutosh kumar Jha	Dr. Nitesh Ahir	Seismic response evaluation of base isolated composite building on hill slope
2.	Manish kumar jha	Dr. Nitesh Ahir	Evaluation of seismic response of buildings with CFST column subjected to near fault ground motion
3.	Naqibullah mehri	Dr Pallab Das	Comparative study of Seismic performance of isolated and fixed base RCC framed structure
4.	Pandarla palli sreekanth reddy	Dr Bijan Kumar Roy	Seismic response mitigation of base isolated cable stayed bridge considering SSI
5.	Dasari eswar kumar	Dr M Lakshmi Vara Prasad	Analytical study of Staggered frame building with bracings and vertical spacing ratio
6.	Saurabh singh	Dr. Nitesh Ahir	Evaluation of moving load response of a real bridge using machine learning
7.	Surya teja gottimukkula	Dr Tauhidur Rahman	Impact of blast loading on high rise buildings
8.	Priyesh basumatary	Dr Pallab Das	Machine learning based prediction of structural response in reinforced concrete frame buildings subjected to blast loading
9.	Tridib sundar das	Dr Atanu Sahu	Performance assessment of a modified tuned liquid damper in structural vibration control
	Parishmita Khattiya Deori	Dr Bijan Kumar Roy	Reliability analysis of base isolated building using meta model
	Vulchi karthik	Dr M Lakshmi Vara Prasad	Performance of light weight concrete column strengthened with FRP sheet under dynamic loading
	Manish kumar	Dr Subhrajit Dutta	Data driven machine learning model for predicting demand capacity ratio of Retrofit design columns
	Md Fakhruddin	Dr Nirmalendu Debnath	Performance based seismic assessment of a ductile reinforced multi storeyed building
	Ninad vivek kadu	Dr Atanu Sahu	Damage detection in light weight structural panels using acoustic signals
	Aditya Dileep Zad	Dr Atanu Sahu	Vibration control of light weight structures using particle dampers
	Bhargav raj kashyap	Dr Tauhidur Rahman	Comparative study on PSC box girder , I girder and T girder bridges for different span
	Upasana sar	Prof Aminul Islam Laskar	Substrate and overlay concrete using different bonding agents
	Chinmoy Kashyap Deka	Dr Jyotirmoy Haloi	Post fire behaviour of steel reinforcement integrated with threaded mechanical couplers under monotonic tensile loading



	Padigala Sai Anish	Dr Nirmalendu Debnath	Retrofitting of RC structure for soft storey building using steel jacketing targeting seismic performance
	Konchada Vivek	Dr M Lakshmi Vara Prasad	A study on reinforced concrete beams retrofitted with different steel patterned plates
	Mohd Ifraz	Dr Tauhidur Rahman	Effect of wind induced deformation of long span bridge
	Gaurav kumar jha	Dr Tauhidur Rahman	Effect of near fault and far fault ground motion in prestressed concrete(PSC) box girder bridges
	Nitish kumar	Dr Arjun sil,Dr Jyotirmoy Haloi	Effect of slope stability parameters on the performance of structure located in hilly terrain
	Subodh kumar	Dr Arjun Sil,Dr Jyotirmoy Haloi	Experimental and numerical study on flexural member performance of Laminated bamboo wood
	Ravi sharma	Dr Bijan Kumar Roy	Damage behaviour and retrofitting of masonry walls under seismic condition using Simplified micro modelling approach
	Prithwish mukherjee	Dr Jyotirmoy Haloi	Determination of intralaminar fracture toughness properties of pultruded fiber reinforced polymer section profile
	Bandi veera reddy	Prof Mokaddes Ali Ahmed	Bi directional simulation modeling of urban roads by using vissim
	Lambha S pasi	Dr Ambika Kuity	Experimental investigation on treated sawdust in asphalt mix by adopting volume proportioning scheme
	Bimala noatia	Dr Khwairakpam Laksman Singh	Evaluation for performance of bituminous mixed using waste product fillers
	Ravi kant rashmi	Prof Mokaddes Ali Ahmed	Mode Choice Behaviour of commuters in tier III city
	Yadavalli Chidananda reddy	Prof Mokaddes Ali Ahmed	Optimal location for electric charging station in silchar city
	Dharmesh Chandra suman	Dr Khwairakpam Laksman Singh	Study on effect of natural fiber on stone matrix asphalt
	L.Manglemngan ba meitei	Dr Khwairakpam Laksman Singh	Rheological behaviour of polymer and crumb rubber composite modified bitumen for use in high temperature areas
	Jaba debnath	Dr Khwairakpam Laksman Singh	Experimental investigation on the performance of bituminous mixes containing blended nano calcium oxide binder
	Mallapoola Venkata Sai Pavan Teja	Dr Ambika Kuity	Global positioning system based toll collection and it's economy and time conserving efficiency over fastag



	Korada tarun kumar	Dr Ambika Kuity	Utilization of clay and clay pellets as partial replacement of coarse aggregate in concrete
	Shemin almas majumder	Dr Suprava Jena	A study on overtaking manoeuvre of motorized two wheelers on undivided roads
	Gaurav kumar	Dr Ambika Kuity	Effect of partially replacement of waste crushed glass as aggregate in asphalt mix
	Chilakala preetham	Prof M Ali Ahmed	Location planning of bus stops in urban streets by minimizing total passenger travel time using genetic algorithm
	Kunal mandal	Dr Ambika Kuity	Utilization of pyrolysis oil from plastic waste to make modified cutback for tack coating
	Maanas V C	Dr Suprava Jena	Analyzing and predicting residential freight co2 emissions: a quantitative model utilizing CEP establishment based parameters
	Sorna Sundar Raj B	Prof M Ali Ahmed	Assessing the efficiency of different conventional methods in estimating the critical gaps for mixed traffic conditions
	Kriti Kiran Manjhi	Prof Mokaddes Ali Ahmed	Safety evaluation of unsignalized t intersection using post encroachment time
	Potdar Pratik Sanjay	Dr Suprava Jena	A study on saturation flow rate at a signalized intersection under mixed traffic conditions
	Pragyan nath	Dr Suprava Jena	Performance measure of queue jump lane using microsimulation in vissim
	Rajrishi Deka	Dr Suprava Jena	Modelling residential freight trip generation from courier , express and parcel services
	Ashif Ahmed	Dr Ambika Kuity	Utilization of sugarcane bagasse on asphalt binder
	Nadakuditi naga praveen	Dr Amit Kumar Das	Assessment of improvement in stability of erosion induced riverbank failure with gabion mattress as remedial measure
	Aditya sharma	Dr Parbin Sultana	Vertical and horizontal scale of fluctuation of geotechnical properties based on standard penetration test
	Poulomi pradhan	Dr Amit Kumar Das	Application of Batter micro pile for stabilising tilted structures
	Manish ghosh	Prof Ashim Kanti Dey	Numerical analysis on problem and their remedies of tunnel construction in lesser himalaya
	Muhsina shirin barbhuiya	Dr Monowar Hussain	Sustainability of silica fume based geopolymer stabilized organic soil
	Pushparani ninghtoujam	Dr Monowar Hussain	Stabilisation/solidification of zinc contaminated soil of meherpur landfill using cement
	Sumit banik	Dr Amit Kumar Das	Effectiveness of sand filled perforated bamboo as vertical drain



	Pooja s	Dr Amit Kumar Das	Application of image processing to estimate moisture content of fine sand
	Saggela bala raju	Dr Nirmali Borthakur	An experimental study on enhancement of bearing capacity of soft clay soil using stone column with jute geotextile and cane geogrid
	Rakesh ranjan kar	Dr Parbin Sultana	Determination of the bearing capacity of pile foundation of boogibeel bridge using empirical and probabilistic methods
	Yatindra prakash	Dr Monowar Hussain	Rutting behaviour of geocell reinforced base overlying soft subgrade soil
	Subham das	Dr Debjit Bhowmik	An experimental and numerical study on the application of metamaterial for effective vibration isolation
	Dasari bhaskar	Dr Nirmali Borthakur	Experimental study of micropile raft foundation on stole column improved soft soil
	Moirangthem Dingku singh	Dr Monowar Hussain	Stabilization of organic soil using GGBS based geopolymer and hybrid alkali activated cement : a model approach
	Paresh Sarangdhar thaware	Dr Olympa Baro	Surface topography effects on seismic response of Guwahati city hills
	Ajit kumar goala	Prof Ashim Kanti Dey	Applicability of geofoam and geomembrane encapsulated very soft clay to reduce ground vibration
	Akhter manzoor lone	Dr Parbin Sultana	Modelling and simulation of shear strength parameters of soil using copulus for a site in southeast delhi district, India
	Santanu ghosh	Dr Debjit Bhowmik	Behaviour of coir fibre reinforced and chemically stabilised soft soil
	Jakkampudi vani naga sai lalitha	Dr Olympa Baro	Rainfall thresholds for landslide prediction in the hills of assam
	Ankit panda	Dr Nirmali Borthakur	Predicting the lateral load capacity of micropile by artificial neural network
	Ravi shankar singh	Dr Olympa Baro	Stability analysis of bank of river barak
	Zaheer abass	Prof Ashim Kanti Dey	Rock slope stability analysis along NH1 from kargil to Leh(Ladakh)
	Pranay Barman	Dr Briti Sundar Sil	Rainfall estimation using radar data
	Somnath Pradhan	Dr Prashanth J	Estimating soil properties by visible reflectance spectroradiometer
	Ayushmita Choudhury	Prof A K Barbhuiya	Integrated urban drainage network design for flood Prevention in Silchar , Assam



	Swagat Talukdar	Dr Susmita Ghosh	Groundwater level prediction using machine learning
	Sayan Kumar Bardhan	Prof Parthajit Roy, Dr Kulkarni Vihangraj Vijaykumar	Study of coefficient of discharge(Cd) variation of a V shaped in plan form sharp crested weir
	Jyotishman Mahanta	Prof Parthajit Roy, Dr Kulkarni Vihangraj Vijaykumar	Study on variation of coefficient of discharge over plan view circular arc form weir
	Harmin Aktar Laskar	Prof. Parthsarathi Choudhury	A study on applicability of GIUH approach in modelling ungauged sub basin in barak river system
	Shakeel Islam	Dr Briti Sundar Sil	Rainfall runoff simulation by HEC HMS in and around silchar city
	Himraj Deka	Prof Dibakar Chakrabarty	Optimal Design of water distribution network using particle swarm optimization
	Matukdhari Kumar Mahto	Dr Dillip Kumar Ghose	Application of machine learning for predicting runoffs and sediment using simulated data sets obtained from rainfall simulator
	Rantu Swargiary	Dr. Bijan Kumar Roy	Response mitigation of offshore jacket platform due to wave loading using a tuned mass damper inerter
	Anwesha Pal	Dr. MLV Prasad & Dr. Atanu Sahu	Dynamic response analysis of functionally graded panels in hygro-thermal environment
	Pranav Jadhav	Dr. S. Dutta	Fragility analysis of multi span simply supported bridge system under seismic excitations
	Satyam Thakuri	Dr. Arjun Sil	Building performance analysis of vertically irregular configured structures on hill slope
	Shruti Chaudhari	Dr. Atanu Sahu & Dr. Satyabrata Chaudhury	Performance of Multistorey RCC Buildings with Tuned Liquid Damper
	Akash Anurag	Dr. Pallab Das	Comparative assessment of fragility of high rise reinforced concrete buildings
	Suhas V Kumar	Dr. T. Rahman	Selection of suitable pylon height for long span cable stayed bridges of a modified fan type cable configuration
	Anshuman Hazarika	Dr. Nirmalendu Debnath	Numerical solutions of structural dynamic responses



1.11 Ph.D. Thesis

Sl. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis
1.	Arpan Herbert	Prof. U. Kumar & Dr. Prashanth J.	Removal of Dyes from Wastewater using Peanut (Arachis Hypogaea) Shells as Adsorbents
2.	Shehnaj Ahmed Pathan	Dr. B. S. Sil	Study of Soil Erosion and Sediment Yield for the upper Brahmaputra River Basin
3.	Ricky L. Chhange	Prof. A. I. Laskar	Engineering Application to Subduction Zone Earthquakes in North-eastern India (NEI)
4.	Mr. Arindom Saha	Prof. A. K. Dey	Application of Geophysical Methods to Investigate Different Geotechnical and Geo-environmental Issues
5.	Abinash Sahoo	Dr. D. K. Ghose	Impact of Climate parameters for predicting flood in Barak Basin encompassing Cachar Watershed, India
6.	Shivam Agarwal	Prof. P. J. Roy & Prof. P. Choudhury	Flood Flow Modelling in River Systems
7.	Nilotpal Debbarma	Prof. P. J. Roy & Prof. P. Choudhury	Study on regional rainfall frequency analysis for hydro-climatological subzones 2b & 2c in North East India
8.	Pinki Deb	Dr. Kh. L. Singh	Study on Cold Mix Asphalt using Different Fillers
9.	Sandeep Das	Dr. S. Dutta	Development of vision-based data analytics scheme for quantification and prediction of load induced cracks in reinforced concrete structures
	Mr. Kamal Sukla Baidya	Prof. U. Kumar	Adsorption of dyes from wastewater using low cost material – Areca nut husk
1	Nilanjan Tarafder	Dr.L.V.Prasad M.	Cyclic Behaviour of Fiber Reinforced SCC Bridge Piers with Partial Replacement of Sand Using QRD
1	Apurba Nath	Dr. Susmita Ghosh	Assessments and Prediction of morphological changes for the flood plain of meandering River Barak, Assam
1	Mrinal Kumar Singh	Dr. Susmita Ghosh	Analysis of Groundwater flow and river-aquifer interaction for waterlogged system using SWAT and MODFLOW model and proposing sustainable groundwater irrigation



CPCB Sponsored Training Programme on “Landfill groundwater pollution management and valorization of mining/industrial wastes through biocomposting and waste to energy”



International Conference on Water Resources, Ocean and Environmental Engineering (ICWROEE) 2024





International Conference on Natural Disaster: Risk Analysis, Management and Mitigation (NDRAMM) 2024



প্রাকৃতিক দুর্যোগ মোকাবিলা নিয়ে এনআইটিতে দু'দিনের আন্তর্জাতিক সম্মেলন

জওহরলাল পাণ্ডে

শিলকুড়ি, ২০ মার্চ : এনআইটি শিলচরে প্রাকৃতিক দুর্যোগ মোকাবিলা নিয়ে দু'দিনের আন্তর্জাতিক সম্মেলন শুরু হল শনিবার। এনআইটি শিলচরের সিভিল ইঞ্জিনিয়ারিং বিভাগের ব্যবস্থাপনা ও অসম রাজ্য দুর্যোগ ব্যবস্থাপনা কর্তৃপক্ষ এবং ভারতীয় ডিওটেকনিক্যাল সোসাইটি শিলচর চ্যাপ্টারের সহযোগিতায় এই আন্তর্জাতিক সম্মেলনে প্রাকৃতিক দুর্যোগের উপর কৃষি বিজ্ঞান, ব্যবস্থাপনা এবং প্রশমন নিয়ে আলোচনা হবে। সম্মেলনের লক্ষ্য নতুন চ্যালেঞ্জ মোকাবিলা করতে আকস্মিক, বৈজ্ঞানিক এবং শিল্প সম্প্রদায়ের বিশেষজ্ঞদের একত্রিত করা এবং কৃষি ও দুর্যোগ প্রশমনের ক্ষেত্রে ভবিষ্যতের সিকিউরিটি সম্পর্কে তাঁদের সর্বশেষ ব্যবস্থা ফলাফল, বারণা, উন্নয়ন এবং দুর্ভিক্ষ উপস্থাপন করা। দু'দিনের



আন্তর্জাতিক সম্মেলনে প্রদীপ প্রজ্জ্বলন করছেন এনআইটির ডিরেক্টর সিলীপকুমার বৈদ্য।

আন্তর্জাতিক সম্মেলনের উদ্বোধনী অনুষ্ঠানে মুখ্য অতিথি হিসেবে রাজ্য দুর্যোগ ব্যবস্থাপনা কর্তৃপক্ষের ইঞ্জিনিয়ার রাজেশ বসু, সম্মানিত অতিথি হিসেবে এনআইটি শিলচরের নির্দেশক অধ্যাপক সিলীপকুমার বৈদ্য,

সম্মেলনের চেয়ারপার্সন অসীমকুমার সে, যাদবপুর বিশ্ববিদ্যালয় থেকে ড. গোপীনাথ ভাটগারী, এনআইটি শিলচরের ডিন, আর অ্যাড সি অধ্যাপক নলীনবিহারী সে, সিভিল ইঞ্জিনিয়ারিং বিভাগীয় প্রধান ড. অজুনি

শীল, সম্মেলনের ব্যবস্থাপক সচিব ড. অতনু সাহ, অধ্যাপক পাখিজিৎ রায়, অধ্যাপক এম আলি আহমদ, অধ্যাপক একে বড়কুইয়া সহ অন্যান্যরা উপস্থিত ছিলেন। এদিন প্রদীপ প্রজ্জ্বলনের মাধ্যমে সম্মেলনের সূচনা করেন অতিথিরা। বহুলা রাবেন এনআইটি শিলচরের ডিন, আর অ্যাড সি অধ্যাপক নলীনবিহারী সে, সিভিল ইঞ্জিনিয়ারিং বিভাগীয় প্রধান ড. অজুনি শীল, সম্মেলনের ব্যবস্থাপক সচিব ড. অতনু সাহ সহ অন্যান্যরা। সাংবাদিকদের সঙ্গে কথা বলতে গিয়ে সম্মেলনের চেয়ারপার্সন অসীমকুমার সে জানান, প্রাকৃতিক দুর্যোগ মোকাবিলা করতে এনআইটি শিলচরে দু'দিনের আন্তর্জাতিক সম্মেলনের আয়োজন করা হয়েছে। ভারতের বিভিন্ন প্রান্ত থেকে অনেকে অংশগ্রহণ করেছেন। এনিয় ১২০টি পেপার অধ্যাপকরা পড়েছেন। এর মধ্যে ৮০ জন উপস্থিত রয়েছেন। এনিয় আলোচনা হবে।



1. Name of the Department:

Mechanical Engineering



The Department at a glance	
Year of Establishment: 1977	
Academic Programmes Offered:	
• Bachelor of Technology (B. Tech) • Master of Technology (M. Tech) • Doctor of Philosophy (Ph.D.)	
Total Faculty Strength (2023-2024):	
• Professor: 4 • Associate Professor: 14 • Assistant Professor: 22	
Total Student Strength:	
• B. Tech: 593 • M. Tech: 44 • Ph.D.: 96	
New Students Joined in 2023-2024:	
• B.Tech: 162 • M.Tech: 15 • Ph.D.: 7	

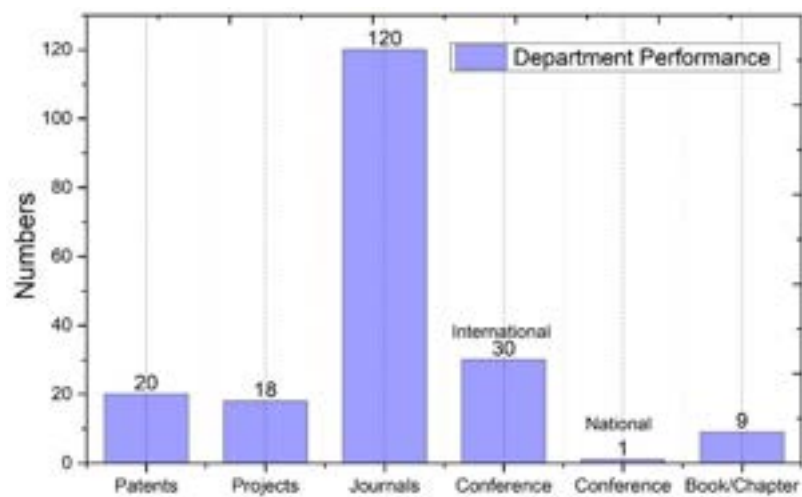


Fig: Publication details of Mechanical Engineering Department during 2023-2024.

1.1 Academic Staff:

HEAD OF THE DEPARTMENT: Dr. Sukumar Pati, Associate Professor

(a) List of Faculty members:

Professor	Associate Professor	Assistant Professor	
1. Prof. R. Gupta (HAG) -	1. Dr. K. Chakraborty	1. Dr. L. Roy	16. Dr. Sunilkumar D
2. Prof. R. D. Misra (HAG)	2. Dr. P. Choudhury	2. Mr. S.K. Pattanayak	17. Dr. P. Mandal
3. Prof. P. K. Patowari	3 Mr. D.H. Das - Retrd	3. Dr. P.Deb. Roy	18. Dr. P. K. Singh
4. Prof. K. K. Sharma- Retrd.	4. Dr. A. Biswas	4. Dr. S. Debbarma	19. Dr. S. Kumar
	5 Dr. S. Halder	5. Dr. C. K. Sahoo	20. Dr. O. Siram
	6. Dr. S. Bhowmik	6. Dr. A. Paul	21. Dr. G. Choubay
	7. Dr. D. Bhanja	7. Dr. Bipul Das	22. Dr. S. Santra
	8. Dr. S. Nath	8. Dr. Y. Singh	
	9. Dr. S. Pati	9. Dr. S. Sharma	
	10. Dr. A.B. Deoghare	10. Dr. A. Bisoi	
	11. Dr. Biplab Das	11. Dr. R. N. Gupta	
	12. Dr. S. Dey	12. Dr. S. Negi	
	13. Dr. S.R. Maity	13. Dr. S. Kar	
	14. Dr. P. R. Randive	14. Dr. V. Mahesh	
		15. Dr. B. Nath	

**(b) List of Staffs:**

Staff	Designation	Remark/Assignment
1. Mr. Debanghu Sinha	Senior Technician	Laboratory
2. Mr. Md. A. K. Sadman A Choudhury	Technician	Laboratory
3. Mr. Pradeep Kumar Sonkar	Technician	Laboratory
4. Mr. Jnyanendra Boro	Technician	Laboratory
5. Mr. Samjit Ali	Technician	Workshop
6. Mr. Ajoy Roy	Office Attendant	Department office
7. Mr. Manik Raj Bangshi	Office Attendant	Department office
8. Mr. Gautam Barman	Office Attendant	Department office
9. Mr. Sew Nandan Kurmi	Master Role (M/R-)	Welding shop
10. Mr. Kamrul Islam Laskar	M/R-	Workshop
11. Mr. Babal Chandra Das	M/R-	Fitting workshop
12. Mr. Mayzul Hq. Laskar	M/R-	Lab. Attendant
13. Mr. Majion Uddin Mia	M/R-	Lab. Attendant
14. Mr. Debabish Roy	M/R-	Carpentry workshop
15. Mr. Tara Bhadur Thapa	M/R-	Machine workshop
16. Mr. Rajai Pawi Kami	M/R-	Machine workshop
17. Mr. Sahab Uddin Laskar	M/R-	Office Attendant

(c) Visiting Professor (If any): NIL

1. NIL

(d) Invited Talk (If any):

1. Prof. Hamed Hadded Khodaparast, Swansea University, UK, Topic "Aero-elastic Gust Load Alleviation Using Morphable Winglet" Keynote Address at ICROME-2024, NIT Silchar.
2. Prof. Rajan Ganguly, Jadavpur University, Topic "Capillary-driven Fluidic Transport on Wettability-engineered Surfaces: From Point-of-care Diagnostics to Sustainability Solutions" Keynote Address at ICROME-2024, NIT Silchar.
3. Prof. Bijoy Bhattacharyya, Jadavpur University, Topic "Micromachining: Innovative Challenges" Keynote Address at ICROME-2024, NIT Silchar.
4. Prof. Partha P. Mukherjee, Purdue University, USA, Topic "Thermal Physics in Energy Storage" Keynote Address at ICROME-2024, NIT Silchar.
5. Prof. Amitava De, IIT Bombay, Topic "Current Trends and Challenges in Metal Additive Manufacturing (3D Printing)", Keynote Address at ICROME-2024, NIT Silchar.



6. Shri. Puranjyoti Talukdar, DRDO, Topic “Role of Mechanical Engineers and Involvement of Industry Partners in the Defense Industry” Keynote Address at ICREAME-2024, NIT Silchar.
7. Popular talk on “Indian Space Missions: From Aryabhata to Chandrayaan 3,” by Prof. Ujjwal K. Saha, Department of Mechanical Engineering, IIT Guwahati.
8. Expert Talk on “Craft of Thesis Writing.” by Prof. Ujjwal K. Saha, Department of Mechanical Engineering, IIT Guwahati.

1.2 Distinction/Award/Recognition Achieved

a) By Student:

1. NIT Students team “Wissen Marinos” secured top three position in the ASME’s Ocean Cleanup Design Competition. They have designed “Underwater Trash-Gathering Robots” that showcased the innovative and best use of fusion software.
2. NIT Students team “Pravaeg” secured 5th rank in the all India ASME Innovative Additive Manufacturing 3D challenge, PES University, Bangalore, Karnataka, 2-3 April, 2023.

b) By Faculty Member:

1. Dr. Agnimitra Biswas: Reviewer Recognition Certificate each from Applied Energy and Energy Conversion and Management Journal for reviewing hundred plus scientific papers till February 2024.
2. Dr. Somnath Santra: DST Inspire Faculty Fellowship Award from Government of India, 2023
3. Dr. V. Mahesh achieved the status of ‘Fellow of Higher Educationa Academy’ by Advance HE, United Kingdom

1.3 Seminars, Symposia, Short Term Courses, Workshops

a) Conducted by Faculty Member

Sl. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	HoD, ME (Convenor)	5 th International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2024)	SERB	2 nd -4 th February 2024
2	Dr. Sumit Bhowmik and Prof. Rajat Gupta	Development and utilization of renewable resources for Industry 4.0	M/o MSME, Gol	9–13, March 2023
3.	Dr Sudip Dey	Workshop entitled "Uncertainty Modelling, Propagation and Identification in Structural Dynamics"	SPARC, Ministry of Education, Govt of India.	29 - 30, January 2024.



4.	Dr Sudip Dey and Prof. Hamed Haddad Khodaparast (Swansea University, UK)	Course entitled "From Basic Linear Vibration to Advance Nonlinear Vibration"	SPARC, Ministry of Education, Govt of India	6–28, January 2024
5.	Dr. Abhishek Paul	One-day National Awareness Program On Design and Innovation Scheme of MSME	MoMSME	10 th March 2024 (1 Day)
6.	Dr. Yogesh Singh	Hands on training on the high-end equipment related to the current emerging fields of Robotics and Mechatronics	SERB	25-31, July 2023
7.	Dr. Gautam Choubey	ICFAMMT 2024 IITRAM Ahmedabad in collaboration with SSME, SAC, ISRO.	DST	19-21, January 2024.
8.	Dr. Yogesh Singh, Dr. Rajeev Nayan Gupta, and Dr. Abhishek Paul	One-week High-End Workshop (Karyashala) on “Hands on training on the high-end equipment related to the current emerging fields of Robotics and Mechatronics”	SERB	25-31 st July 2023

b) Participated by Faculty Member

Sl. No.	Name of Faculty	Details of the Program	Organizing Institute
1.	Dr. Sumit Bhowmik	Orientation Workshop on Outcome Based Education and Accreditation for the newly identified Program Evaluators (PEVs) on 19th August, 2023.	IIT Guwahati
2.	Dr. Abhishek Paul	“Green Hydrogen Production, Storage and Transportation: A Green Energy Perspective”, 2 days DST (SERB) sponsored workshop as invited speaker	Vellore Institute of Technology, Vellore, India.
3.	Dr. Abhishek Paul	“Recent Advancements in Fuel Cells and Hydrogen Storage” 5 days STTP, as invited speaker. Department of Mechanical Engineering.	Anurag University.
4.	Dr. Agnimitra Biswas	Two-days SPARC workshop on ‘Uncertainty Modelling, Propagation and Identification in Structural Dynamics, during Jan 29-30, 2024	NIT Silchar



5.	Dr. Sumita Debbarma	9th International Conference on Composite Materials and Material Engineering (ICCMME' 2024), Singapore January 14-16, 2024.	South Asia Institute of Science and Engineering (SAISE), Hongkong
6.	Dr. Kalyan Chakraborty	The application of the preference selection index method to find the best work-tool combination during machining, 7 th international conference on production and industrial engineering, CPIE, 10-12 March, 2023, Department of Industrial and Production Engineering,	Dr. B. R. Ambedkar National Institute of Technology, Jalandha, India.
7.	Dr. Kalyan Chakraborty	The machining data selection by using a fuzzy logic model, 1st International Conference on Mechanical Design and Manufacturing, ICMDM 2023, 27-28 April 2023. IEST Mech Centenary Conferences & Symposia (CCS), 2023. Department of Mechanical Engineering.	Indian Institute of Engineering Science and Technology, Shibpur, Howrah, 711103, India.
8.	Dr. Kalyan Chakraborty	The fuzzy logic model for machining data selection, 4th international conference on computational intelligence (ICCI 2023), November 04-05, 2023, Sardar Vallabhbhai National Institute of Technology, Surat, India, Sponsored by Soft Computing Research Society.	Sardar Vallabhbhai National Institute of Technology, Surat, India.
9.	Dr. Kalyan Chakraborty	Some studies on the mechanism of chip formation during machining of chromium manganese austenitic stainless steel, 5 th innovative product design and intelligent manufacturing systems (IPDIMS 2023), 6 th and 7 th December 2023, Department of Industrial Design.	National Institute of Technology, Rourkela,
10.	Dr. Kalyan Chakraborty	The elementary energy consumption during chip formation in machining, First international conference on advancement in energy (Urja Sangam 2023) 18 th -20 th December, Department of Mechanical Engineering.	Motilal Nehru National Institute of Technology, Allahabad, Prayagra.
11.	Dr. Somnath Santra	Guest Speaker, 1st International symposium on Microfluidics And Healthcare engineering. Department of Bioengineering, School of Biosciences and Bioengineering.	D Y Patil International University, Akurdi, Pune.



12.	Dr. Prosun Mandal	Guest speaker, during a one-week workshop titled “Application of Unconventional Machining Techniques in Manufacturing”, held from April 6th to April 11th, 2024, at SR University, Warangal	SR University, Warangal
13.	Dr. Santosh Kumar	Delivered a session in One Week Short Term Course (Online) titled Advance trends in Manufacturing process, scheduled for June 17-21, 2024	National Institute of Technology, Agartala

1.4 Research Development

a) Ph.D. Programme (Specializations):

- ❖ Thermal Engineering
- ❖ Design and Manufacturing
- ❖ Renewable Energy
- ❖ Hard Surface coating
- ❖ Arc-based Additive Manufacturing
- ❖ Advanced Manufacturing Processes
- ❖ Composite Materials
- ❖ Materials Engineering

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

Name of the Faculty	Completed	Submitted	Ongoing
Prof. Rajat Gupta			1.0
Prof. R. D. Misra	1.0	0.5	2.0
Prof. P. K. Patowari	1.5	1	1.5
Dr. P. L. Choudhury		0.5	0.5
Dr. Agnimitra Biswas	0.5	1.0	2.5
Dr. Sudipta Halder		0.5	0.5
Dr. Sumit Bhowmik	0.5	2.0	2.0
Dr. Dipankar Bhanja	0.5	--	3.5



Dr. Sujit Nath	1.5	---	3
Dr. Sukumar Pati	1.0	---	3.5
Dr. Ashish B. Deoghare	1.0	---	1.5
Dr. Biplab Das	1.5	0.5	3.0
Dr. Sudip Dey	3.5	---	4.0
Dr. Lintu Roy	0.5	--	00
Dr. Sumita Debbarma		--	3.0
Dr. Pradip Deb Roy		1.0	1.0
Dr. Saikat ,Ranjan Maity		0.5	4
Dr. Pitambar R Randive	2.5	---	2.0
Dr. Chinmaya Kumar Sahoo	2.0	---	1.5
Dr. Abhishek Paul	1.5	---	1.0
Dr. Bipul Das		1.5	0.5
Dr. Yogesh Singh	1.0	1.5	1.5
Dr.Simanchal Kar			2.0
Dr. Sumitra Sharma			3.0
Dr. Alfa Bisoi			1.0
Dr. Rajeev Nayan Gupta			2.0
Dr. Sushant Negi			1.5
Dr. V. Mahesh			2.0
Dr. Purushotam Kumar Singh			1.5
Dr. Santosh Kumar			0.5

c) **Research Lab/ Workshop:**

Sl. No.	Name of Lab/Workshop	Purpose/Linkage to an existing/new programme
1.	Machine Element Laboratory	Linkage UG and PG (Design and Manufacturing) program and External funded project
2.	CAD-CAM Computational Laboratory	UG, PG and Ph.D. related simulation and computational work
3.	Condition Monitoring Laboratory	PG and Ph.D. Research work
4.	Advanced Joining Laboratory	PG and Ph.D. Research work
5.	Advanced Engine Research Laboratory	To provide research facility in the field of Engine combustion, emission and alternative fuel research
6.	Fuel Research Laboratory	To provide research facility in the field of fuel synthesis and characterization.
7.	Advance Robotics Research Lab	Funding from different agencies like CSIR, DST, SERB
8.	Tribology Lab	Research Lab for UG/PG/Ph.D. project work
9.	Laser Material Processing Lab	Research
10.	Advanced Welding lab	Research Lab for UG/PG/Ph.D. project work
11.	FMS Lab	Research Lab for UG/PG/Ph.D. project work

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

Sl. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1.	Utilization of Agro waste for development of bio composite materials for domestic appliances	Dr.Sumit Bhowmik	KVIC, GoI	Rs. 15.00 Lakhs	2021 – 2023
2.	SPARC II project P2558 entitled “Robust identification of metamaterial microstructures for efficient energy harvesting”	Dr Sudip Dey	SPARC II, Ministry of Education, Govt of India	Rs.67.39 Lakh	2 years
3.	Design and development of induction welding system for in situ repair of exit hole	Dr. Bipul Das	SERB, DST	Rs. 28.48 Lakh	2020-2023



	defect in friction stir welded sample				
4.	Design and Development of portable, low-cost induction heating furnace for bell metal industry of Assam.	Dr. Bipul Das	ASTEC & DST, Gol	Rs. 8.00 Lakh	2021-2023
5.	Development of Three axes force and torque measurement device for monitoring and control of friction stir welding process.	Dr. Bipul Das	DST, Gol	Rs. 77.70 Lakh	2022-2025
6.	Development and testing of Nano-doped hybridized biodiesel as pilot fuel for hydrogen dual fuel operation in a stationary CI engine.	Dr. Abhishek Paul	DST	Rs. 51.85 Lakhs	2019-2023 Extended upto 31st March 2024
7.	Dynamics of deformable drops and biological cells in microchannels	Dr. Binita Nath	DST (INSPIRE)	Rs. 35.00 Lakh	5 years (start date - 03.08.23)
8.	Design and development of a microreactor for production of clean hydrogen gas.	Dr. Binita Nath	SERB (SRG)	Rs. 32.64 Lakh	2 years (start date - 19.12.24)
9.	Harvesting Pico-scale water power using zero-head modified Savonius water turbine.	Dr. A. Biswas (PI) Prof. R. D. Mishra (Co-PI)	SERB-CRG	Rs.30.02 Lakh	3 years (2022-25)
10.	Development of visible active multiphasic titania-metal oxide nanoheterojunction photo catalyst with enhanced green hydrogen production capacity and test its utility in an indigenously fabricated prototype solar photocatalytic reactor for large scale applications.	Dr. A. Biswas (Co-PI) Dr. R.G. Nair (PI) And, Prof. S.S. Dhar (Co-PI)	SERB-CRG	Rs. 46.42 Lakh	3 Years (2023-2026)



11.	Development of smart solar photovoltaic system having encapsulated phase change material with artificial intelligence based real-time condition monitoring.	Dr. S. Halder (PI) Dr. A. Biswas (Co-PI). Dr. K.N. Das (Co-PI), and Dr. S. Sahoo (Co-PI)	CRG-ANRF	Rs. 45.00 Lakh	3 years (2024-2027)
12.	Design, Development, and Testing of Sediment Erosion-Resistive Micro Hydro Turbine for off-grid application	Dr. Biplab Das (PI) Dr. Ojing Siram (Co-PI), and Dr. Agnimitra Biswas (Co-PI)	TIH IIT Guwahati	Rs. 8.00 Lakh	2 years (2024-2026)
13.	Machine Learning Based Design Of Low Cost Knee-Ankle-Foot-Orthosis For Divyangs And Development Through Additive-Manufacturing Of Recycled Plastic.	Dr. Vinyas Mahesh (PI), and Dr. Sumit Bhowmik (Co-PI)	DST-SYST	Rs. 32.22 Lakh	2024-2027
14.	Electric Field Modulated Maneuvering of Red Blood Cells In a Network of Bio-Mimetic Deformable Microvessels Under Healthy and Diseased Conditions.	Dr. Somnath Santra	DST (Govt. of India)	Rs. 35.00 lakhs	5 years (2024-2029)
15.	Design and Development of a High Speed Three Dimensional Pinter with a Large Range of Micro Motion using a Scanning Stereo-lithography Technique.	Dr. Yogesh Singh	CSIR	Rs. 27.30 Lakhs	2020-2023
16.	Design and Development of a SMART (shape memory alloy restoration technique) Actuation based Lower Limb Rehabilitation Robotic System.	Dr. Yogesh Singh	DST SEED	Rs. 33.13 Lakhs	2022-2025
17.	Investigation of Tribo-Performance of Self-Lubricating and Self-Healing Microencapsulated Hybrid Polymer Composites Under Different Sliding Conditions.	Dr. Rajeev Nayan Gupta	SERB	Rs. 29.83 Lakhs	2 years



18.	Design and development of bath-chair for safe bathing of elderly	Dr. Chinmaya Kumar Sahoo (PI) Dr. Yogesh Singh (Co-PI)	DST (SEED/TIDE)	Rs. 8.19 Lakhs	2021-2023
19.	Utilizing-in nozzle impregnation for enhancing the strength of recycled PET based 3D printed continuous fiber reinforced bio-composite (CFRBCs) for load bearing applications	Dr. Sushant Negi (PI)	SERB	Rs. 19.55 Lakhs	2021-2023
20.	Machine learning based design of low cost knee-ankle-foot-orthosis for divyangs and development through additive-manufacturing of recycled plastic	Dr. Vinyas Mahesh	DST-SYST	32,22,470	2024-2027

e) Research Paper Reviewed

Sl. No.	Faculty Name	Journal Name	No. of Paper	Year
1	Dr. S. Negi	Rapid Prototyping Journal	2	2023-24
		Polymer Composites	1	2023-24
		Aircraft Engineering and Aerospace Technology	1	2023-24
		Evergreen - Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy	1	2023-24
		Heliyon	1	2023-24
		Virtual and Physical Prototyping	2	2023-24
2	Dr. Vinyas Mahesh	Composite Structures Thin Walled Structures Scientific Reports Engineering with Computers etc Aerospace Science and Technology Advanced Engineering Materials	15	2023
3	Dr. Sukumar Pati	Industrial Engineering & Chemistry Research	1	2023-24
		Case Studies in Thermal Engineering	1	2023-24
		International Journal of Thermofluids	1	2023-24
4	Prof. P. K. Patowari	Materials and Manufacturing Processes	16	2023-24
		Part B: Journal of Engineering Manufacture	2	2023-24



		Sadhana	2	2023-24
		Journal of The Institution of Engineers (India): Series C (IEIC)	2	2023-24
5.	Dr. Agnimitra Biswas	Energy Sources Part A: Recovery, Utilization, and Environmental effects	21	2023-24
		Journal of Applied Fluid Mechanics	14	2023-24
		Applied Energy	13	2023-24
		Energy- an International Journal	11	2023-24
		Frontiers in Energy Research	10	2023-24
		Renewable Energy	6	2023-24
		Heliyon	6	2023-24
		IEEE Access	5	2023-24
		Ocean Engineering	4	2023-24
		Energy Conversion and Management	3	2023-24
		Solar Energy	2	2023-24
		Sustainable Energy Technologies and Assessments	2	2023-24
		Journal of Energy Storage	2	2023-24
		Energy Reports	2	2023-24
		Physics of Fluids	2	2023-24
		Journal of Renewable and Sustainable Energy	2	2023-24
		Thermal Science and Engineering Progress	2	2023-24
		Energy Exploration & Exploitation	2	2023-24
		Environmental Progress & Sustainable Energy	2	2023-24
		Case Studies in Thermal Engineering	1	2023-24
		Energy Nexus	1	2023-24
6.	Dr. Sumit Bhowmik	Journal of Vinyl and Additive Technology	3	2023 – 24
		International Polymer Processing	2	2023 – 24
		International Journal of Metal casting	1	2023
		Part E: Journal of Process Mechanical Engineering	1	2023
		Arabian Journal for Science and Engineering	4	2023 – 24
		Journal of Materials Engineering and Performance	1	2023
		Renewable and Sustainable Energy Review	1	2023
		Journal of Mechanical Science and Technology	2	2023 – 24
		Journal of Material Cycles and Waste Management	1	2024
		Polymer Bulletin	2	2023 – 24



		Part B: Journal of Engineering Manufacture	1	2024
		Materials Today Communications	1	2024
		Biomass Conversion and Biorefinery	2	2023 – 24
		Journal of Cleaner Production		2024
7.	Dr. Sudip Dey	Applied Mathematical Modelling	1	2023-24
		Composite Structures	1	2023-24
		Composites Part B: Engineering	1	2023-24
		Thin-walled structures	1	2023-24
		Engineering Fracture Mechanics	1	2023-24
		Materials Today Communications	1	2023-24
		Journal of Composite Materials	1	2024
		Materials Advances	1	2024
8.	Dr. Chinmaya Kumar Sahoo	Philosophical magazine.	1	2023
		Materials	5	2023-24
		Engineering Research Express	1	2023
9.	Dr. Bipul Das	IMechE Part E: Journal of Process Mechanical Engineering	2	2023-24
		Sadhana	2	2023-24
		Next Materials	1	2024
		International Journal of Computer Integrated Manufacturing	1	2024
		IMechE Part C: Journal of Mechanical Engineering Science	1	2024
	Dr. Rajeev Nayan Gupta	Int. J. of Surface Science and Engineering	2	2024
	Dr. Vinyas Mahesh	Composite Structures Thin Walled Structures Scientific Reports Engineering with Computers etc	15	2023
	Dr. Prosun Mandal	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering.	1	2024
		World Journal of Engineering.	2	2023
		The International Journal of Advanced Manufacturing Technology.	2	2023
		Journal of Composite Materials	1	2023
	Dr. Santosh Kumar	Science and Technology of Welding and Joining	1	2024
		Welding in the World	1	2024
	Dr Gautam Choubey	Journal of Fluid Mechanics, Physics of Fluids, Int J Hydrogen Energy, Energy, Acta Astronautica, Applied thermal engineering,	---	2024



		Journal of Aerospace Engineering, Journal of the Brazilian Society of Mechanical Sciences and Engineering, Scientific Reports – Nature, Journal of Thermal Analysis and Calorimetry		
	Dr. Somnath Santra	Physics of fluid	5	2024
		Computers and fluids	1	2024
		Journal of Electrostatic	2	2024
		Journal of Institute of Engineers (Part-C)	1	2024
	Dr. Ojing Siram	Journal of Renewable and Sustainable Energy	1	2023-24
		Green Energy and Sustainability	1	2024
		Sadhana	1	2024
		Scientific Report	2	2023-24
		Sustainable Energy Research	2	2024
		Physics of Fluids	1	2024
		Meccanica	1	2024

f) Chairing of Technical Section

Sl. No.	Faculty Name	Details
1.	Prof. P. K. Patowari	Chaired a Technical Session on the topic Advances in Machining during AIMTDR 2023, organized by the Department of Mechanical Engineering, IIT (BHU) Varanasi during December 08-10, 2023.
		Chaired a Keynote Session in 5 th ICROME 2024 organized by the Department of Mechanical Engineering, NIT Silchar, Feb 2-4, 2024.
2.	Dr. Sudip Dey	Chaired two technical sessions in International Conference on Recent Developments in Mechanical Engineering (ICROME), NIT Silchar, Feb 2-4, 2024.
		Invited talk entitled “Engineering Mechanics – A Journey of Learning from the Dawn” held on 11th March 2024 at Aeronautical and Aerospace Engineering Department, Hindustan University, Chennai.
		Acted as External member for PhD defence examination of Mr.Sathish babu (Hindustan University, Chennai) PhD thesis entitled "Experimental characterization of corrugated foam sandwich panel." on 11 th March 2024.
3.	Dr. Bipul Das	5th International Conference on Recent Advancements in Mechanical Engineering (ICROME 2024), NIT Silchar, Feb 2-4, 2024.



4.	Dr. Abhishek Paul	Co-chaired a session in 5 th International conference on Advances in Mechanical Engineering (ICRAME 2024), NIT Silchar, Feb 2-4, 2024.
5.	Dr. Agnimitra Biswas	Chaired one session at International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2024), NIT Silchar, Feb 2-4, 2024.
6.	Dr. Sumita Debbarma	Chaired one session at 5 th International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2024), NIT Silchar, Feb 2-4, 2024.
7.	Dr. Rajeev Nayan Gupta	5 th International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2024), NIT Silchar, Feb 2-4, 2024.
8.	Dr. Gautam Choubey	Session Chair, DST-Sponsored, ICFAMMT 2024 at IITRAM Ahmedabad in collaboration with SSME, SAC, ISRO.
9.	Dr. Chinmaya Kumar Sahoo	Chaired one session in 5 th International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2024), NIT Silchar, Feb 2-4, 2024.
10.	Dr. Sushant Negi	Chaired one session at 5 th International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2024), NIT Silchar, Feb 2-4, 2024.

1.5 PUBLICATIONS

a) International Journal(s):

1. Mahakur, V. K., Bhowmik, S., and P. K. Kumar., 2023, Tribo-informatics evaluation of dry sliding friction of silanized jute filler reinforced epoxy composites using machine learning techniques, Tribology International, Vol. 183, P. 108388. DOI: <https://doi.org/10.1016/j.triboint.2023.108388>
2. Mahakur, V. K., Paul, R., Bhowmik, S., and Patowari, P. K., 2023, Influence of surface modification on mechanical and tribology performance of jute filler polymer composites and prediction of the performance using artificial neural network, Polymer Bulletin, Vol. 80, PP. 11953–11974. DOI: <https://doi.org/10.1007/s00289-022-04636-x>.
3. Mahakur, V. K., Bhowmik, S., Patowari, P. K., and Kumar, S., 2023, Effect of alkaline treatment on physical, mechanical, and thermal characteristics of jute filler reinforced epoxy composites, Journal of vinyl and Additive Technology, Vol. 29(2), PP. 330-342. DOI: <https://doi.org/10.1002/vnl.21963>MAHAKURET AL.13.
4. Teli, G., Mahakur, V. K., Paul, R., and Bhowmik, S., 2022, Investigation of Dry Sliding Tribological Behaviour of Epoxy Composites Filled with Hemp Particulates Using Artificial Neural Networks, Arabian Journal for Science and Engineering, Vol. 48, PP. 3989–4001. DOI: <https://doi.org/10.1007/s13369-022-07354-8>.
5. Kumar, S., Bhowmik, S., and Mahakur, V. K., 2022, Thermo-mechanical and degradation properties of naturally derived biocomposites for prosthesis applications: Analysis of the



- interface pressure and stress distribution on the developed socket, Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, PP: 1- 17, DOI: 0.1177/09544089221131155
6. Paul, R., Zindani, D., and Bhowmik, S., 2022, Investigation on Physicomechanical, Tribological and Optimality Condition for Coir Filler-Reinforced Polymeric Composites, Arabian Journal for Science and Engineering, Vol. 48, PP. 3615–3630. DOI: <https://doi.org/10.1007/s13369-022-07221-6>.
 7. Santosh, K., and Sumit, B., 2022, Potential use of natural fiber-reinforced polymer biocomposites in knee prostheses: a review on fair inclusion in amputees, Iranian Polymer Journal, Vol. 31, PP. 1297–1319.
 8. Mishra, D. K., Bhowmik, C., Bhowmik, S., and Pandey, K. M., 2022, Property enhanced paraffin based composite phase change material for thermal energy storage: a review, Environmental Science and Pollution Research, SCI, Impact Factor: 4.223, PP: 1 – 32, DOI: <https://doi.org/10.1007/s11356-022-19929-x>.
 9. Paul, R., and Bhowmik, S., 2022, Adhesive wear behaviour of surface modified bamboo filler reinforced polymer composite under different contact condition. Journal of Natural Fibers, Vol. 19(15), PP. 12208–12223.
 10. Sarma, P., and Patowari, P. K., 2023. A Review on Fluid Flow and Mixing in Microchannel and their Design and Manufacture for Microfluidic Applications. Micro and Nanosystems, Vol. 15(3), PP. 167-184. DOI: 10.2174/1876402915666230817164516
 11. Tripathi, E., Patowari, P. K., and Pati, S., 2023, Comparative assessments of mixing and pressure drop characteristics in spiral, serpentine and straight micromixers. Meccanica 58.7, PP. 1315-1327.
 12. Baroi, B. K., Jagadish, and Patowari, P. K., 2024, Effect of Boric Acid in Powder Mixed EDM of Ti-6Al-4V ELI, Materials and Manufacturing Processes, Vol. 39(1), PP. 130–43.
 13. Majumder, T., and Patowari, P. K., 2024, A review on the use of microslit for various applications and its fabrication, Journal of the Brazilian Society of Mechanical Sciences and Engineering, Vol. 46(106).
 14. Kebede, A. W., Patowari, P. K., and Sahoo, C. K., 2024, Machining efficiency and geometrical accuracy on micro-EDM drilling of titanium alloy. Materials and Manufacturing Processes, PP. 1-16. <https://doi.org/10.1080/10426914.2024.2323438>.
 15. Mahakur, V. K., Bhowmik, S., and Patowari, P. K. 2023, Decision making approaches for recognizing the optimal alkalized corchorus olitorius powder based composites for sustainable applications. Physica Scripta, Vol. 98(12), P. 125308. DOI 10.1088/14024896/ad 094e.
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- applications. *Polymer International*, Vol. 73(4), PP. 270-279.
<https://doi.org/10.1002/pi.6589>
18. Mahmum, A., and Deoghare, A. B., 2024, A comparative study on coconut shell-derived graphene oxide and reduced graphene oxide, *Current Applied Physics*, Vol. 62, PP. 12-21.
 19. Singh, S. N., and Deoghare, A. B., 2024, Microstructure, microhardness, tensile and fatigue investigation on laser shock peened Ti6Al4V manufactured by high layer thickness directed energy deposition additive manufacturing, *Optics & Laser Technology*, Vol. 177, P. 111132.
 20. Das, P., Deoghare, A. B., and Maity, S. R., 2023, Enhanced Morphological, Mechanical and Dielectric Properties of Paraffin Wax Incorporated with Polyaniline (PANI) and Reduced Graphene Oxide (RGO) nanocomposites, *Diamond and Related Materials*, Vol. 139, P. 110361.
 21. Singh, S. N., and Deoghare, A. B., 2023, High layer thickness laser directed energy deposition of Ti6Al4V alloy: Microstructure, fatigue behavior and fractography, *Engineering Failure Analysis*, Vol. 148, P. 107208.
 22. Deb, P., Barua, E., Deoghare, A. B., and Lala, S. D., 2023, Physico-Mechanical and Biological Analysis of Composite Bone Scaffold Developed from Catla catla Fish Scale Derived Hydroxyapatite for bone tissue engineering, *Arabian Journal for Science and Engineering*, Vol. 49, PP. 27–41.
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 24. Venkatesh, V.S.S., Kalapala Prasad, Ashish B. Deoghare, 2023, Characterization of Microwave Sintered Aluminium Composite Reinforced with Hydroxyapatite Extracted from Rihu Fish Scales. *Arch. Metall. Mater.* Vol. 68(2), PP. 617-624. DOI: <https://doi.org/10.24425/amm.2023.142442>
 25. Singh, S. N, and Deoghare, A. B., 2023, Macro dimensional accuracy of Ti6Al4V parts manufactured by wire-feed high layer thickness continuous laser directed energy deposition. *Journal of Laser Applications*, Vol. 35, P. 012003 (2023); <https://doi.org/10.2351/7.0000870>
 26. Vaishali, T. Mukhopadhyay, and Dey, S., 2023, On machine learning assisted data-driven bridging of FSDT and HOZT for high-fidelity uncertainty quantification of laminated composite and sandwich plates, *Composite Structures*, Vol. 304, Part 1.
 27. Saha, S., Maity, S. R., and Dey, S., 2023, Machinability study of A286 Superalloy for complex profile generation through Wire Electric Discharge Machining, *Arabian Journal for Science and Engineering*, Vol.48, pp.3241–3253, 2023.
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40. Barman, S., Gupta, K. K., and Dey, S., 2024, Enhancing Mechanical Performance of Al_{0.3}CoCrFeNi HEA Films Through Graphene Coating: Insights from Nanoindentation and

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41. Barbhuiya, A. A., Das, A. K., and Dey, S., 2024, Predicting financial manipulation using an ensemble-based approach, *Vision 0(0)*. <https://doi.org/10.1177/09722629241255833>
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 43. Dey, G., Das, B., Batna, S., and Sunilkumar D, 2024, Numerical and experimental study on effect of induction heating parameters on the coating of Zn layer on mild steel, *Journal of Adhesion Science and Technology*, PP. 1–26.
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 50. Kar, A., Hussain, S., Seikh, A., Kumar, A., and Das, B., 2023, Effect of plate placement on nugget shape in joining dissimilar thickness automotive steel thin sheets using resistance spot welding, *Manufacturing Technology Today*, 22(1). <https://doi.org/10.58368/MTT.22.1.2023.13-19>.
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56. Kumar, M., and Paul, A., 2023. Comparative evaluation of combustion, performance, exergy and emission characteristics in hydrogen-biodiesel dual fuel engine under RCCI mode. *Energy & Environment*, 0(0). <https://doi.org/10.1177/0958305X231167467>
57. Nath, B., Caprini, L., Maggi, C., Zizzari, A., Arima, V., Viola, I., Leonardo, R. D., and Puglisi, A., 2023, A microfluidic method for passive trapping of sperms in microstructures, *Lab on a Chip*. 23(4), PP. 773–784.
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59. Kumar A., Biswas A., Podder B, and Das S., 2024, Energy and exergy analysis of a solar flat plate collector based water heater- a comparison of the effect of absorber size. *EAI Transaction on Energy Web*, Vol. 11, PP. 1-10. DOI: 10.4108/ew.1350.
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64. Sarma K. C., Nath B., Biswas A., and Misra R. D., 2023, Design and performance investigation of a triple blade dual stage Savonius-alike hydrokinetic turbine from low flow stream reserves. *Energy Sources Part A: Recovery, Utilization, and Environmental Effects*, Vol. 45(4), PP. 12099–12117.



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d) National Conference(s):

e) Book/Chapter:



1. Kumar S., and Chakraborty, K., 2023, The Chip Formation Mechanism for the Machining of the EN8 Unalloyed Steel, Recent Advances in Materials and Manufacturing Technology, Lecture Notes in Mechanical Engineering (LNME), Springer Nature Singapore, PP. 1-9. https://doi.org/10.1007/978-981-99-2921-4_1.
2. Tiwary J., and Chakraborty, K., 2023, The machining behavior of 52100 bearing steel, Lecture Notes in Mechanical Engineering (LNME), Springer Nature Singapore Pvt. Ltd. PP. 3-13, https://doi.org/10.1007/978-981-99-1288-9_1.
3. Mahajan, S., and Chakraborty, K., 2024, The application of the preference selection index method to find the best work- tool combination during machining, Advances in materials and agile manufacturing, Lecture Notes in Mechanical Engineering (LNME), Springer, Singapore, PP. 29-36. https://doi.org/10.1007/978-981-99-6601-1_4.
4. Kumar S., and Gupta, R. N., 2024, A Review on Fabrication and Properties of Magnesium Metal Matrix Composite Materials” Recent Advancements in Mechanical Engineering, Lecture Notes in Mechanical Engineering, Springer Nature, PP. 183-195.
5. Mishra A. K., Singh P. K., and Mishra S. K., 2023, Optimum Production-Ordering Policy for a Vendor Buyer Co-Ordinated System Subject to Production Disruption. In Transportation Systems Technology and Integrated Management, Springer Nature Singapore, May 4, PP. 109-120.
6. Kumar S., Mandal S. K., Singh P. K., Mishra S. K., and Kumar P., 2023, An Environmental Sensitive Approach to Reusable Waste Heat Using Combined Low-Temperature Water Heating-Thermoelectric Generation System. In International Conference on Mechanical Engineering: Researches and Evolutionary Challenges, Springer Nature Singapore, June 23, PP. 481-488.
7. Singh P. K., and Mishra S. K., 2023, Performance of Ribs in Double Pass Jet Solar Air Heater: A Review. Transportation Systems Technology and Integrated Management, May 4, PP. 303-15.
8. Singh P. K., Mishra S. K., Shukla K., and Kumar P., 2024, Studying the Effectiveness of Synthetic Rutile Made from Inferior Quality Ilmenite Ore. In Intelligent Transportation System and Advanced Technology, Springer Nature Singapore, Mar 14, PP. 59-70
9. Das A., Saha S., and Singh P. K., 2023, Relative Characteristics of Various Nano-Cement Composite. Journal of Mines, Metals and Fuels, Vol. 71(10), PP. 1663-8.

1.6 Major Equipment Acquired

Sl. No.	Details	Year
1.	Friction Stir Welding System	2023-24
2.	Portable Alcohol Meter	2023-24
3.	Ultrasonic digital depth gauge	2023-24
4.	Cup type flow velocity meter	2023-24



1.7 Patent

Sl. No.	Details	Year
5.	G. Teli, S. Bhowmik, S. Bandhyaopadhyay. "System and method for developing gift and memento items from hemp filler," Indian Patent, Patent No.: 422983, Status: Granted	2023
6.	Santosh Kumar, Vijay Kumar Mahakur, and Sumit Bhowmik. "A system for the development of prosthetic knee legs from naturally derived biocomposite," German Patent, Patent No.: 202023103875,	2023
7.	Tapas Debnath, Promod Kumar Patowari, "Development Of Wire Fluctuation Measuring Device For Wire Edm" Patent Number: 504065	2024
8.	Tapas Debnath, Inamul Hussain, Promod Kumar Patowari, "Development Of Nano-Electrical Discharge Machining (NEDM) System" Patent Number: 515083	2024
9.	Venkatesh Vavilada, Ashish Bhalchandra Deoghare, "Development of composite materials reinforced with Kaolin clay and Boron Carbide for efficient compression and wear properties Application Number: 202231000158. (Filed on 03-01-2022, Publication Date: 04-02-2022)	2023
10.	Bipul Das. "A Manually Operative System for Manufacturing Bottle Using Bamboo Powder," Grant No.: 2023/02617, South African Patent.	2023
11.	Bipul Das. "Tool for the solid-state material deposition," Grant No.: 403526-001, Indian Patent	2024
12.	Bipul Das. "Apparatus for friction stir processing of materials," Grant No.: 411003-001, Indian Patent.	2024
13.	Agnimitra Biswas, Kanak Chandra Sarma, Biswajit Nath, Rahul Dev Misra. "A system for investigating the performance of two-bladed double stage Savonius-akin hydrokinetic turbine at low flow velocity conditions," German Patent Application number- 202023101859.	2023-24
14.	Kanak Chandra Sarma, Agnimitra Biswas, Biswajit Nath, Rahul Dev Misra. "A triple-bladed dual-stage Savonius-alike hydrokinetic turbine system," Indian Patent Application number- 202331055032. Status- Filed (Under progress).	2023-24
15.	Supreme Das, Agnimitra Biswas, and Biplab Das. "Jet Impingement Nozzle-Array Solar Air Heating System," Indian Design Patent, Application number- 411006-001. Status- Filed.	2023-24
16.	Vishwas Mahesh, Vinyas Mahesh. "Smart force indicating toggle lever clamp" (Indian patent, Awarded)	2024
17.	Yogesh Singh "Design and Development of a Shape Memory Alloy Actuation Based Ankle/Lower Limb Rehabilitation Robotic System."	2023
18.	Yogesh Singh "2PRP-1PRR Planar Parallel Manipulator for Teaching Application"	2023



19.	Bipul Das, Rajeev Nayan Gupta, Yogesh Singh, Jasper Ramon, Devjani Devi, Bedanta Kumar Saharia. "A Manually Operative System for Manufacturing Bottle Using Bamboo Powder," (Filed 2023, 2023/02617), South African Patent, International.	2023
20.	Purushottam Kumar Singh, Nepram Suraj Kumar Singh, Santosh Kumar Mishra, Pankaj Kumar, Sandhir Kumar Singh, "An equipment for crafting high performance anti- reflective coatings". Indian Patent (Design), Patent No.: 405207-001	2023
21.	Sushant Negi, Shubham Kumar Singh, Fhahmida Zahan Ferdoci, Vishal Mishra, Anup Kumar Sharma, Simanchal Kar, "Landing gear system for aerial vehicles", Indian Patent (Design), Patent No.: 405207-001411857-001	2024
22.	Sushant Negi, Navya Ann Cherian, Vishal Mishra, "IOT based smart swing", Indian Patent (Design), Patent No.: 405207-001411857-001	2024
23.	Vishwas Mahesh, Vinyas Mahesh, Smart force indicating toggle lever clamp (Indian patent, Awarded)	2024

1.8 CONSULTANCY SERVICES-

Sl. No.	Name of the Scheme	Sponsoring Agency	Amount Earned
	NIL	NIL	NIL

1.9 Visits to Abroad

Sl. No.	Name of the Faculty	Name of the Conference/ Programme	Place	Date
1.	Dr. S. Debbarma	9th International Conference on Composite Materials and Material Engineering (ICCMME' 2024), Singapore	Singapore	14-16, January 2024

1.10 M.Tech. (Project)

Sl. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project
1.	Navneet Kumar Thakur	Dr. Sumit Bhowmik	Application of MCDM in the selection for Solar Power Plants : A Case Study'
2.	Allamaprabhu Somashekhar Ani	Dr. Ashish B. Deoghare	Prediction of Fatigue Strength and S-N curve modeling of Aluminum Alloys using Machine Learning,
3.	Gayathri Bolugoddu	Dr Sudip Dey	Random Multiple Impact Responses of Laminated Composite Plates – A Finite Element Approach" 2023



4.	Vishak AP	Dr. Bipul Das	Analysis of structural members for the development of force and torque measurement system in the friction stir welding process
5.	Sunayana Saikia	Dr. Abhishek Paul	Effect of in-situ catalyst on Performance, Combustion and Emission characteristics of H ₂ RCCI engine: an experimental study
6.	Tina Sarmah	Dr. Binita Nath	Green hydrogen production in a microfluidic membraneless electrolyser through electro oxidation reaction
7.	Satyam Gupta	Dr. Agnimitra Biswas & Dr. T. Malakar	Design and performance optimization of a Combined Darrieus-Savonius wind turbine
8.	Subham Chetri	Dr. S. Debbarma	An experimental investigation on CI engine performance, combustion and exhaust emissions using biodiesel-CNG dual fuel
9.	Chinmoy Das	Dr. Kalyan Chakraborty	Identification of process parameters to find out particulate by machining low alloy steel
10.	Abhishek Kumar	Dr. Yogesh Singh	Design and Development of a 4PR Parallel Lower Limb Rehabilitation Robotic System
11.	Sumit Yadav	Dr. Rajeev Nayan Gupta	Probe Thermo-Mechanical fatigue (TMF) Performance of an Exhaust manifold and explore casting and forming simulation to evaluate manufacturing feasibility
12.	K Sai Kiran Chowdary	Dr. Chinmaya Kumar Sahoo	Experimental Investigation of the Effect of Laser Processing Parameters for Machining of Inconel 625 Sheet
13.	Deva Pratim Samra	Dr. Santosh Kumar	Numerical and experimental analysis of frictional effect on load bearing capacity of Self Pierce Riveting
14.	Anindya Nath	Dr. Sukumar Pati	Influence of Surface Charge Heterogeneities on the Electroosmotic Mixing Performance of Micromixers with Distinct Geometries
15.	Navya Ann Cherian	Dr. Sushant Negi	Design and Development of Fully Automated Bioinspired Swing Chair for Toddler
16.	Abha Mourya	Dr. Biplab Das, Prof. Rajat Gupta	Experimental Analysis of Photovoltaic Thermal Air collector with a modified



			absorber plate in the climate condition of NE India
17.	Niranjan Reddy Martha	Dr. Pitambar Randive	Performance enhancement of perovskite solar cell with ETM and HTM Optimization
18.	Plabita Bhuyan	Dr. Dipankar Bhanja	Thermal Analysis of Protective Footwear under Extreme Cold Environment
19.	Madhurjya Mahanta	Prof. Rahul Dev Misra	Advanced Exergy Analysis and exergoeconomic Evaluation of a Cogeneration system power plant

1.11 Ph.D. Thesis

Sl. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis
1.	Sapam Ningthemba Singh	Dr. Ashish B. Deoghare	Laser shock peening of Ti6Al4V alloy fabricated by laser-directed energy deposition additive manufacturing,”
2.	Aditya Roy	Dr. Sudip Dey	Random mechanical behaviour of heterogeneous nanotubes
3.	Himanshu Prasad Raturi	Dr. Sudip Dey	Probabilistic Free Vibration of Porous FGM Plates – A Machine Learning Approach
4.	Dipak Debbarma	Prof. K.M Pandey, Dr. Abhishek Paul	Analysis on Enhancement of Hydraulic and Thermal Performance of Microchannel Heat Sink Through Modification of the Channel Flow Structure
5.	Mukund Kumar	Dr. Abhishek Paul	Development of Fuel Injection Strategies for Combustion of Hydrogen under Advanced RCCI mode in CI engine-AN Experimental Approach
6.	Sujit Roy	Dr. Biplab Das Dr. Agnimitra Biswas	Aerodynamic Performance Analysis of a HAWT with and without Leading-Edge Tubercles on Airfoil Blades
7.	Shatarupa Biswas	Dr. Yogesh Singh	Development of wire electrical discharge machining (WEDM) parametric correlation model and process optimization for different alloys
8.	Mohd Aslam	Dr. Chinmaya Kumar Sahoo	Finite element modeling and Improvement of surface properties of mild steel specimen using AISI304 stainless steel-based cladding by Gas Metal Arc Welding proces,
9.	Guddakesh Kumar Chandan	Dr. Chinmaya Kumar Sahoo	Experimental investigation of nanosecond fiber laser process parameters for

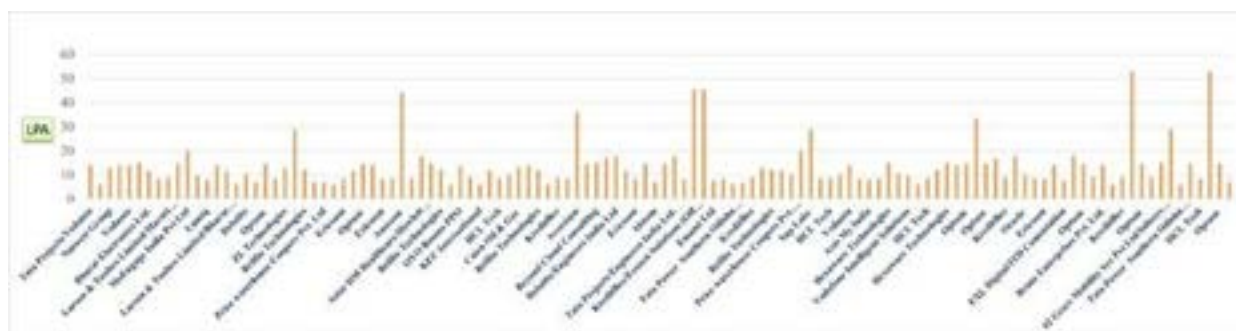


			enhancement in machining quality of Ti-6Al-4V alloy
10.	Ekta Tripathi	Prof. P. K. Patowari Dr. Sukumar Pati	Design analysis and fabrication of spiral micromixer for microfluidic applications
11.	Md Faizan	Dr. Sukumar Pati Dr. Pitambar Randive	Thermal management and electro-chemical analysis of fast charging/discharging lithium-ion batteries
12.	Pallab Sarmah	Prof. P. K. Patowari	Fabrication and Machinability Study of Aluminium Based Metal Matrix Composites
13.	Namrata Bordoloi	Prof. K.M. Pandey & Prof. K.K. Sharma	Numerical Modelling and Analysis of Combined Parallel and Transverse Injected- based Scramjet Combustor
14.	Prince Kumar	Prof. K.M. Pandey	Investigation of Transport Characteristics for Forced Convection Through Wavy Channel and Porous Media
15.	Amatya Bharadwaj	Prof. R.D. Misra	Surface Modification by Electric Discharge Coating to Enhance Pool Boiling Heat Transfer Performance
16.	Saurabh Sharma	Dr. S. Nath	Modelling of atomization of bulk liquid sheet of Newtonian and viscoelastic liquids sandwiched between two gas streams
17.	Pallab Bhattacharjee	Dr. S. Nath & Dr. D. Bhanja	Numerical Analysis of Latent Heat Thermal Storage for Thermo-Heightened Performance
18.	Durgesh Kumar Mishra	Dr. S. Bhowmik & Prof. K.M. Pandey	Development and Assessment of organic Based Composite Phase Change Material for Thermal Energy Storage
19.	Kritesh Kumar Gupta	Dr. S. Dey & Dr. L. Roy	Mechanical Properties and ballistic impact behaviour of hybrid graphene nanostructures- A machine learning approach
20.	Subrata Kushari	Dr. S. Dey	Randomized first ply failure analysis of laminated composite plates
21.	Debayan Bhowmick	Dr. P.R. Randive	Numerical Investigation of Thermo-Hydraulic Characteristics of Flow through Partially Filled Porous Media
22.	Subhasis Chakravarthy	Dr. P. R. Randive	Numerical Investigation on the Influence of Air Throttling on Combustion Characteristics in Scramjet Combustor
23.	Shyamal Das	Dr. Biplab Das	Performance Evaluation of Hydrogen-enriched Biodiesel-Run Diesel Engine With and Without Iron Nanoparticle

1. Name of the Department:
Electrical Engineering



The Department at a glance
Year of Establishment: 1977
Academic Programmes Offered: • Bachelor of Technology (B. Tech) • Master of Technology (M. Tech) • Doctor of Philosophy (Ph. D.)
Total Faculty Strength: 34 • Professor: 07 • Associate Professor: 03 • Assistant Professor: 24
Total Student Strength: 763 • B. Tech: 622 • M.Tech: 22 • Ph. D: 119
New Students Joined in 2023-2024: 183 • B. Tech: 166 • M.Tech: 12 • Ph.D.: 05



Department during 2023-2024

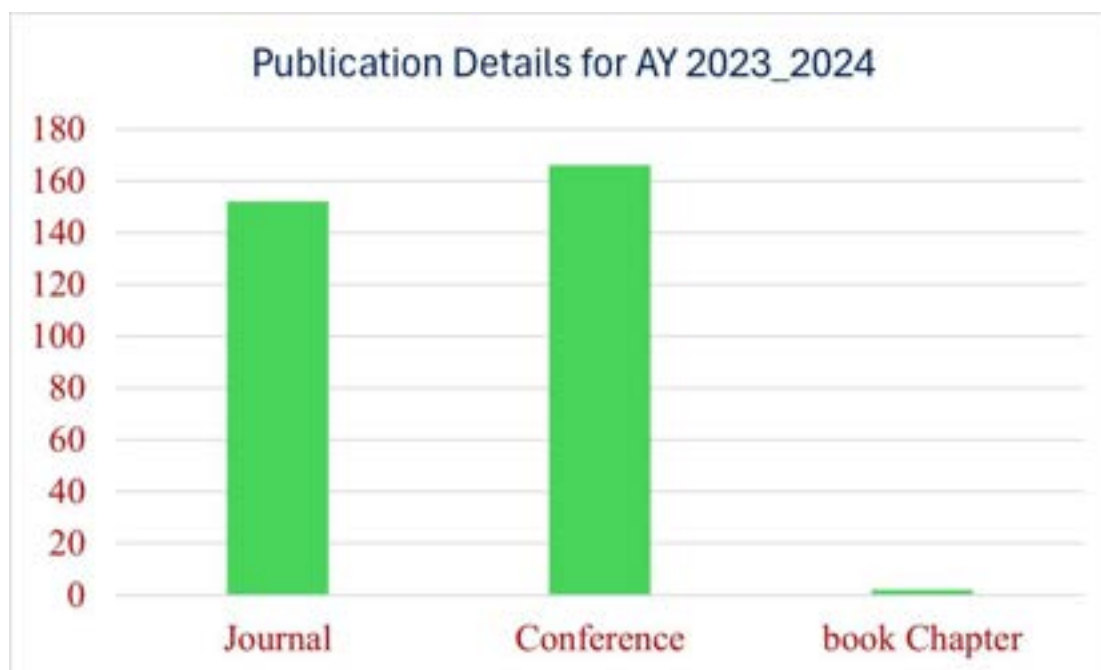


Fig: Publication details of Electrical Engineering Department during 2023-2024

1.1 Academic Staff:

HEAD of the Department: Prof. Arup Kumar Goswami, Professor



Name of Faculty members:

Professor	Associate Professor	Assistant Professor
Prof. Nidul Sinha	Dr. Tanmoy Malakar	Dr. Chayan Bhattacharjee
Prof. Binoy Krishna Roy	Dr. Dulal Chandra Das	Dr. Prasant Roy
Prof. Saurabh Chaudhury	Dr. Rajeeb Dey	Dr. Raj Kumar Biswas
Prof. N. B. Dev Choudhury		Dr. Saheli Roy
Prof. Arup Kumar Goswami		Dr. Amritesh Kumar
Prof. Lalit Chandra Saikia		Dr. D. Koteswara Raju
Prof. Jyoti Prakash Mishra		Dr. Partha Kayal
		Dr. Nabanita Adhikary
		Dr. Tapan Pradhan
		Dr. Avadth Pati
		Dr. Jiwanjot Singh
		Dr. Asha Rani M. A.
		Dr. Sreejith.S
		Dr. Swapna Mansani
		Dr. Risha Mal
		Dr. Ashish Paramane
		Dr. Sreenu Sreekumar
		Dr. Ambrish Devanshu
		Dr. Srikanth Allamsetty
		Dr. Mallikarjuna Balimidi
		Dr. Vivekanandan S
		Dr. Biswarup Ganguly
		Dr. Debayan Sarkar
		Dr. Biswajit Sahoo

Visiting Professor (If any): NIL

1.2 Distinction Achieved

- a) **By Student: NIL**
- b) **By Faculty Member: NIL**

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) Conducted by Faculty Member:

Sl. No.	Name of Faculty	Details of the Program	Organizing Institute
1	Dr. Sreenu Sreekumar	An expert lecture on Electric Vehicle	IEEE Student Branch, AI-Ameen Engineering College Kulappully
2	Dr. Sreenu Sreekumar	IEEE DL session, From Nature to Engineering Optimization: Exploring	IEEE DL session



		the power of Algorithms Inspired by nature system	
3	Dr Debayan Sarkar	One Week Online Short-Term Course on Renewable Energy Technologies for Sustainable Power System	RETSPS-2023
4	Dr Debayan Sarkar	Five Days Hybrid Short Term Training Programmes on Off-grid and Grid-tied Renewable Energy Systems: Technology, Control, and Applications	OGRES:TCA-2024 25th – 29th March 2024

b) Participated by Faculty Member:

Sl. No.	Name of Faculty	Details of the Program	Organizing Institute
1	Dr Debayan Sarkar	One Week Short Term Course and Faculty Development Programme on "SUSTAINABLE TECHNOLOGIES & ENERGY MANAGEMENT OF HYBRID MICROGRID	STEMM- 2023 July 12-16 2023
2	Dr Debayan Sarkar	Online FDP On Advanced Technologies in Electrical Engineering	ATEE-2024 February 13-17 2024

1.4 Research Development

a) Ph.D. Programme (Specializations):

1. Power System Analysis and Optimization, Renewable Energy Sources
2. Non-Conventional Energy, Application of soft computing techniques in control and Operation of non- conventional energy-based hybrid power system
3. Smart grid, Power Quality, Power system Reliability, Renewable energy sources
4. Cogeneration Management, Application of Big Data in Power system
5. Micro-grid, Renewable energy integration in competitive power markets, FACTS device Transmission system planning
6. Renewable energy system (Wind, SPV, Hybrid) Control; Microgrid Control (Power Quality and Management issues); Applications of Custom Power Devices; Electric Vehicles; Electric Drives control
7. Smart grid, Reliability of power system, cost allocation, Deregulated power System, use of artificial intelligence in power system, Economics of power System
8. Control Theory, Application of control in biomedical application Time-delay system and control, Robust Control
9. Control System, Nonlinear Control, adaptive control, Fractional order control
10. Low power VLSI, Image Processing, CNT & Nanowires Compound Semiconductors

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

Completed	Submitted	Ongoing
12	02	119



c) **Research Lab/ Workshop:**

Sl. No.	Name of Lab/Workshop	Purpose/Linkage to an existing/new programme
1.	Basic Electrical Engineering Lab	UG B. Tech Program (All branch)
2.	Circuit Theory Lab	B. Tech in Electrical Engineering
3.	Electrical Measurement Lab	B. Tech in Electrical Engineering
4.	Analog and Digital Electronics Lab	B. Tech in Electrical Engineering
5.	Signal Processing Lab	B. Tech in Electrical Engineering
6.	Micro-Processor Lab	B. Tech in Electrical Engineering
7.	Electrical Machine Lab	B. Tech in Electrical Engineering
8.	Power Systems Lab	B. Tech in Electrical Engineering and M. Tech in Power and Energy Systems, PhD
9.	Control Systems Lab	B. Tech in Electrical Engineering
10.	Advanced Control Systems Lab	B. Tech in Electrical Engineering and M. Tech in Control and Industrial Automation, PhD
11.	Power Electronics Lab	B. Tech in Electrical Engineering
12.	Process Control lab	M.Tech in Control and Industrial Automation, PhD
13.	Sophisticated Wind Energy Conversion Laboratory	M. Tech. in Power and Energy Systems Engineering, Ph.D.
14.	Bio-Energy and Biomass Lab	M. Tech. (Power and Energy Systems Engineering), Ph.D.
15.	UG Project Lab	UG Project work. To promote hardware projects for the final year B. Tech Projects.
16.	Embedded System Lab	M.Tech in Control and Industrial Automation, PhD
17.	Power and Energy Systems Relay Lab	B. Tech in Electrical Engineering and M.Tech in Control and Industrial Automation, PhD
18.	PC Laboratory	UG, PG and PhD
19.	Biomedical Signal Processing Lab	B. Tech in Electrical Engineering
20.	Advance Power Electronics and Control Lab	M. Tech. (Power and Energy Systems Engineering), Ph.D.
21.	Energy Lab	M.Tech in Power and Energy Systems, PhD
22.	Real Time Simulation Lab	B. Tech in Electrical Engineering and M. and Energy Systems, PhD

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

Sl. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration



1	Investigation and development of robust control strategy for bilateral teleoperation system with delayed communication: An rehabilitation of stroke patients	Dr. Rajeeb Dey Co-PI Dr. N. Adhikary	SPARC MHRD	67	2 years
2	Feasible Coordinated Controlled Grid connected Photovoltaic Source DC based Fast Charging Infrastructure for Electric Vehicle: Design, Development and Experimental Validation	PI- Dr. Amritesh Kumar Co-PI Dr. Avadh Pati	DST/SERB with MHRD	187	3
3	Development of Thermoelectric generator integrated Charcoal Stove	PI- Kritika Awasthi (BIT Sindri, Jharkhand) Co-PI Dr. Rishu Mal	TEQIP Collaborative Research Scheme	3.86	2 years
4	Development of Battery Supercapacitor Hybrid Energy Storage System for Stand-Photovoltaic Power System	PI: Dr. Munmun Khanra (E&I Dept., NIT Silchar) Co-PI: Dr. J. P. Mishra, EE Dept., NIT Silchar	DST, SEED Division	22.22	03 Years
5	Design and Development of Soft Interconnect for DC Microgrids using Power Electronics Interface for Improved Reliability of Power Supply	PI: Dr. Amritesh Kumar	SRG/SERB	30 Lakh	02 years
6	Multistability and hidden attractors in dynamical systems DST, Indo-Russian collaboration	CO-PI: Prof. B. K. Roy	DST, Indo-Russian	65.2	03
7	Investigation of linear and nonlinear Delay- Differential-Equation (DDE) models for prediction of stability in dyadic interpersonal relationship: A case study for urban Indian married and dating couple	PI: Rajeeb Dey	DST SERB, MATRICS	6,60,000.00	3 Years (2020-2023)
8	Achieving Novel Carbon Neutral Energy Communities "SUSTENANCE"	PI: Asha Rani M. -A	DST (Indo-EU)	1,27,000.00	4 Years (2021-2025)
9	Design & Implementation of underwater vehicle for surveillance applications	PI: Prof. B.K. Roy	TIH, IIT Guwahati	10,0000.00	2 Years



10	Design and development portable low cost induction heating furnace for Bell Metal Industry of Assam	Co-PI: L. C. Saikia	DST, Assam Science & Technology & Environment Council (ASTEC)	10,00,000.00	2 Years (2021-2023)
11	Development of three arcs force and torque measurement device for welding process	Co-PI : Dr. N. Adhikar	DST	77,77,026.00	2 Years (2022-2025)
12	Design and Development of Solar PhotoVoltaic Powered Cane Slicing machine	PI : Dr. Risha Mal	DST	24,11,720.00	3 Years
13	Establishment of Science Technology and Innovation Hub in NIT Silchar, Cachar, Assam, for socio-economic upliftment of SC/ST population in Assam	Co-PI : Dr. Risha Mal	DST	1,44,378,43.00	3 Years

e) **Research Paper Reviewed**

Sl. No	Faculty Name	Journal Name	No. of Paper	Year
1	Dr. Dulal Chandra Das	IET Renewable Power Generation International Journal of Green Energy IEEE/ASME Transactions on Mechatronics IEEE Access IEEE Transactions on Sustainable Energy IET Generation, Transmission & Distribution IEEE IAS Publications IEEE Systems Journal IEEE Transactions on Energy Conversion IETE Journal of Research	10	2023-2024
2	Dr. Sreenu Sreekumar	IEEE Transactions on Cybernetics, Applied Energy, Computers & Electrical Engineering, Experts Systems with Applications, Electrical Engineering, Energy, Remote Sensing Applications: Society and Environment, Electric Power Components and Systems, Journal of Environmental Management, The Journal of Supercomputing, International Journal of Electrical Power & Energy Systems, Sustainability, Applied Sciences, Energies, Scientific Reports,	116	2023-2024



		Fractal and Fractional, Sensors, Heliyon, Journal of Sensor and Actuator Networks, Risks, Energy Reports, Mathematics, SN Applied Sciences		
3	Dr. Amritesh Kumar	IEEE Transactions on Industrial Application, IEEE transaction on industrial electronics, Transactions on Consumer Electronics	5	2023-2024
4	Dr. D. Koteswara Raju	Applied Energy, Electrical Power System Research, Sustainable Energy, Grids and Networks Electrical Power components and systems (EPCS), Tylor & Francis Journals. Energy Reports. International Transactions on Electrical Energy Systems (Wiley-Blackwell). Transactions of the Institute of Measurement and Control, SAGE Publisher. Wind Energy. IEEE Sensors Letters Journal of Building Engineering	30	2023-2024
5	Dr. Avadh Pati	IEEE transaction on Industrial Electronics, COMPEL, TIMC, ISA, Energy Storage, Applied Energy	20	2023-2024
6	Dr. P Roy	ISA Transaction, Control Engg Practice, TiMC	10	2023-2024
7	Dr. Srikanth Allamsetty	Journal of Applied Research in Higher Educational Research, Advances in Human-Computer Interaction, Studies in Educational Evaluation, International Journal of Systems Assurance Engineering and Management, Energy	9	2023-2024
8	Dr. C. Bhattacharjee	Plos One, ECM	4	2023-2024
9	Prof. S. Chaudhury	IETE International Journal of Electronics IEEE Transaction on Nanotechnology: Circuits, Systems and Signal Processing: Expert systems with Applications:	10	2023-2024
10	Dr. Vivekanandan S	Scientific Reports IEEE Transactions on the open journal of power electronics	4	2023-2024



11	Dr. Tanmoy Malakar	Energy conversion and management, Electrical Power components and systems (EPCS), International journal of Electrical Power and Energy Systems, Electrical Power System Research,	15	2023-2024

f) Chairing of the Technical Section

Sl. No.	Faculty Name	Details
1	Dr. Amritesh Kumar	IEEE SILCON 2022 held on 4-6th Nov 2022 at NIT Silchar under IEEE Silchar subsection
2	Dr. Amritesh Kumar	Emerging Electronics and Automation (E2A 2023) held on 15-17 December 2023, NIT Silchar
3	Dr. Avadh Pati	Emerging Electronics and Automation (E2A 2023) held on 15-17 December 2023, NIT Silchar
4	Dr. Prasanta Roy	3rd International Conference on Emerging Electronics and Automation
5	Dr. Avadh Pati	5th Electric Power and Renewable Energy Conference (EPREC-2024), 24-26 May 2024, NIT Jamshedpur, India
6	Dr. Vivekanandan S	IEEE Sensor Conference 2023

1.5 PUBLICATION

a) Journal(s):

- [1]. T. Bal, S. Ray, N. Sinha, R. Devarapalli, and Ł. Knypiński, "Integrating Demand Response for Enhanced Load Frequency Control in Micro-Grids with Heating, Ventilation and Air-Conditioning Systems," *Energies*, vol. 16, no. 15, 2023, doi: 10.3390/en16155767.
- [2]. N. Swain, N. Sinha, and S. Behera, "Stabilized frequency response of a microgrid using a two-degree-of-freedom controller with African vultures optimization algorithm," *ISA Trans.*, vol. 140, pp. 412–425, 2023, doi: <https://doi.org/10.1016/j.isatra.2023.05.009>.
- [3]. S. Phadikar, N. Sinha, and R. Ghosh, "Unsupervised feature extraction with autoencoders for EEG based multiclass motor imagery BCI," *Expert Syst. Appl.*, vol. 213, p. 118901, 2023, doi: <https://doi.org/10.1016/j.eswa.2022.118901>.
- [4]. C. Rohmingtluanga, S. Datta, N. Sinha, and T. S. Ustun, "SCADA based intake monitoring for improving energy management plan: Case study," *Energy Reports*, vol. 9, pp. 402–410, 2023, doi: <https://doi.org/10.1016/j.egy.2022.11.037>.
- [5]. C. Rohmingtluanga *et al.*, "Enhanced harris hawks optimization based load frequency control of multi area microgrid based water treatment plant with consideration of 3DOF-(FO-PIDN)/(TIDN) controller," *Front. Energy Res.*, vol. 12, 2024, doi: 10.3389/fenrg.2024.1387780.



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c) National Conference(s): NIL

d) Book/Chapter:

- 1. Sampoorna Poria, Ahona Ghosh, Biswarup Ganguly, and Sriparna Saha, "A Hybrid Deep Learning Framework to Diagnose Sleep Apnea using Electrocardiogram Signals for Smart Healthcare", *Intelligent Data Analytics for Bioinformatics and Biomedical Systems*, Wiley.
- 2. Rahman, S.M.A., Kumar, A, "High Gain Voltage Lift-Based Interleaved Cascaded Boost DC-DC Converter", *Lecture Notes in Electrical Engineering*, vol 1156. Springer, Singapore.

1.6 CONSULTANCY SERVICES: NIL

1.7 MAJOR EQUIPMENT ACQUIRED:

APEC Lab

- 1. WAVE FPGA based Controller WCU300
- 2. Multifunction Machine Xerox Work center 3335
- 3. Chroma 62050H-450 Programmable DC Power Supply
- 4. Chroma 63205E-600-350 DC Electronic Load
- 5. SIC MOSFET based DC-DC converter
- 6. NHR 9410 Grid Simulator
- 7. DC programmable Source ITECH 1800W 200V/60A IT6513 C

Biomedical Instrumentation Lab

- 8. Qanser- Robotics Arm Qarm USB



9. Quanser Omni-Haptics and Robotics Bundle

Power Electronics system research lab

10. Configurable PV connected, grid connected Inverter 3-Phase
11. Discovery bit
12. Launchpad 2000MHz Delfino C2000
13. Controller board SOC FPGA bit Make Digital
14. Soldering and De-soldring smd station Make-YIHUA
15. PCB Machine and Desktop Coupler Make Robofi, Model Robo CNC
16. 100MHz, 4 Channel MSO MSO5104

1.8 PATENT:

1. S. chaudhuryksh. robert singh, saurabh chaudhury, somen debnath, subir dutta, subhasish deb, dalton meitei thounaojam, r. lalchhanhima, r. chawngsumpuli, lalhmingliana, n. gopil sing, mayanglambam sishilata devi, "A cascade network system for classification of rice grain" South Africa 2024.
2. Patent No: 49863, Rajeeb dey d.deb, r. dey, s. chakraborty, s. m. Rajkumar, "wireless network-based embedded control design method for actuators with uncertain delays" Indian patent 2024.
3. Patent number: 511346, Abraham chikku, jose babita roslind, mathew jimson, and subburaj, vivekanandan "a dual input buck, boost and inverted mode switched capacitor based voltage converter" Indian patent 2024.
4. Priti Das, Sukriti Patty, Nibha Rani, Chandransh Singh, Tanmoy Malakar, "A two stage hybrid prediction system for dealing with uncertain variables", Paten No. 2023/03298, Grant Date : 30/08/2023.

1.9 VISITS TO ABROAD

Sl.No.	Name of the Faculty	Name of the Conference/ Programme	Place	Date
1.	Amritesh Kumar	2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG)	Wollongong, Australia	3-6, Dec 2023
2.	L C Saikiah	2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG)	Wollongong, Australia	3-6, Dec 2023



3.	Partha Kayal	IEEE International Conference RTUCON 2023	Riga, Latvia	9-11 October, 2023

1.10 M.Tech. (Thesis/Project)

Sl. No	Scholar Id	Name	Supervisor	Project title
1	2223101	Istaranjan Kanungo	Tapan Pradhan	Automated leak and clog detection, leak localization and clog removal
2	2223103	Chandamita Baruah	Prof. Binoy Krishna Roy, Co-Supervisor - Saravanan Gandhiraman	Design and Implementation of Automatic Test Equipment for Testing Electromechanical Relay Parameters
3	2223104	Debangshu Malakar	Dr. Avadh Pati	MODELING AND SIMULATION OF A GEARLESS VARIABLE SPEED WIND TURBINE SYSTEM WITH PMSG
4	2223106	ARIJIT PAUL	DR. NABANITA ADHIKARY	DESIGNING OF NTSMC FOR MAGLEV SYSTEM
5	2223107	Parshan Bandopadhyay	Dr. Prasanta Roy	Eigenstructure Assignment based Proportional Integral Control of a Financial System
6	2223109	Debanga Jyoti Baruah	Prof. Saurabh Chaudhury Co-Supervisor - Pravin Talan	Design Optimization and Control of Genset Components
7	2223110	Mastofa Kamal	Prof. Saurabh Chaudhury	Classification of Cardiovascular Abnormalities Using Signal Processing and Machine Learning Techniques.
8	2223111	Chandan chetri	Tapan Pradhan	QSVD based image enhancement for agriculture and industrial applications
9	2223112	Madhurya Parasara	Dr. Prasanta Roy	Quantitative feedback theory based robust controller for wastewater treatment plant
10	2223113	Rajdeep Bhattacharjee	Dr. Nabanita Adhikary	Exploring a Hybrid PV-TEG System for Marine Communication with Maximum Power Point Tracking and Voltage Regulation
11	2223114	Swapnesh Khamaru	Dr. Avadh Pati, Dr. Nabanita Adhikary & Ms. Veena Gujjar	Development of Sliding Mode Controller (SMC) based Antilock Braking System (ABS)



12	2223115	Srinjoy Paul	Dr. Rajeeb Dey, Ms. Veena Gujjar	Enhancing Anti-Lock Braking System (ABS) Performance using Gain Scheduled PID Controller
13	2223201	Soumik Mahalanabish	Prof. Arup Kumar Goswami	CVaR Assessment of Forecast Errors for Renewable Energy in Power Systems
14	2223202	Deepkamal Das	Dr. Dulal Chandra Das	
15	2223203	Vivek Kumar	Dr. Ashish Paramane	
16	2223204	Sikder Arif Mohammad	Dr. Sreejith. S	"Design and Implementation of a high gain DC-DC converter for solar PV applications."
17	2223207	Rabina Ningombam	Dr. Sreenu Sreekumar	Inertia Forecasting in High Renewable Penetrated Power Systems

1.11 Ph.D. Thesis

Sl. No	Name of the Scholar	Guide Name(s)	Title of the Thesis
1	Subash Chandra Sahoo	Dr. Dulal Chandra Das	Control Strategies for Isolated Hybrid Microgrids with Renewable Energy Sources
2	Manoja Kumar Behera	Prof. Lalit Chandra Saikia	Studies on Various Control Topologies of Distributed Solar PV Systems and Microgrids Using Integer and Fractional Order Controllers
3	Sanjeev Kumar Bhagat	Prof. Lalit Chandra Saikia	Some Studies on Automatic Generation Control of Renewable Energy Source Integrated Systems Using Tilt Controllers
4	Ganesh Chilakalapudi	Dr. Amrithesh Kumar	Modeling and Control of Dual Active Bridge based Isolated DC/DC Converter for Electric Vehicle Applications
5	Getaneh Mesfin Meseret	Prof. Lalit Chandra Saikia	Mitigation of Automatic Generation Control Problem of Multi-Area Interconnected Power Systems using Optimized Intelligent Secondary Controllers
6	Biks Alebachew Taye	Prof. Nalin Behari Dev Choudhury	Control and Energy Management Strategy for DC Microgrid with Hybrid Energy Storage System
7	Tamiru Debela Awas	Dr. Jiwajot Singh	Design and Implementation of a Step-up Single-Phase Switched-Capacitor Multilevel



			Inverter Topologies and its application to Solar Energy Integration to Grid
8	M. M. Jaganath	Dr. Saheli Ray Prof. Nalin Behari Dev Choudhury	Techno-Enviro-Economic Feasibility Assessment of Hybrid Renewable Energy System
9	Devaprasad Paul	Prof. Arup Kumar Goswami	Prognostic Studies and Statistical Synthesis for Condition Assessment of Power Transformers and Reactors
10	Rajasekar Thota	Prof. Nidul Sinha	Application of artificial intelligent methods for efficient and economical use of energy towards near net zero energy buildings
11	Shilalipi Sahoo	Prof. Binoy Krishna Roy	Design of chaotic systems with complex dynamics, higher chaoticness, and their time-synchronized predefined-time synchronization
12	Sanat Kumar Paul	Dr. Dulal Chandra Das	Novel Network Reconfiguration Strategies of Active and Unbalanced Distribution Networks with Injection Uncertainties



1.12. Photo Gallery of EE Department Events (2023-2024)



Fig (From left). IEI Student Chapter welcome address for the year 2023_2024, IEEE Silchar Subsection organised an expert talk under department of EE, Electra society Annual meeting core team, Teachers Day celebration under Electra society 2024, Electra society organised an expert talk, IEEE Silchar Subsection general meeting, IEI chapter inauguration and annual meetings for the year 2024, MATLAB Workshop under IEI, Drone workshop followed by Teachers Days celebration under IEI 2023.

1. Name of the Department:

Electronics and Communication Engineering



The Department at a glance
Year of Establishment: 1983
Academic Programmes Offered: ● Bachelor of Technology (B.Tech) ● Master of Technology (M.Tech) ● Doctor of Philosophy (Ph.D.)
Total Faculty Strength: 34 ● Professor: 6 ● Associate Professor: 10 ● Assistant Professor: 17 ● Trainee Teacher: 01
Total Student Strength: 875 ● B.Tech: 695 ● M.Tech: 58 ● Ph.D.: 122
New Students Joined in 2023-2024: 223 ● B.Tech: 164 ● M.Tech: 45 ● Ph.D.: 14

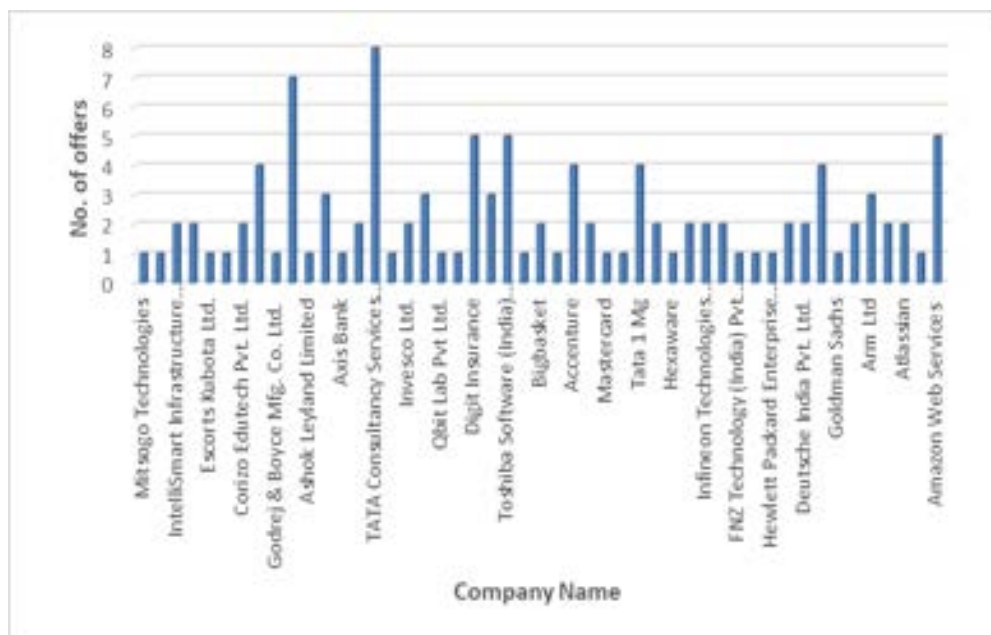


Fig: Placement statistics of students in the Electronics and Communication Engineering Department during 2023-2024

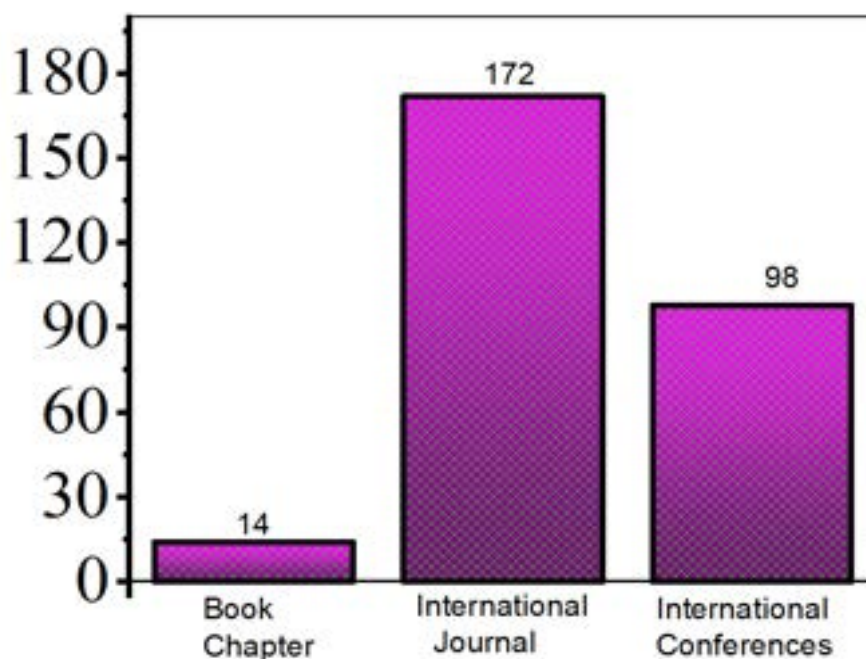


Fig: Publication details of Electronics and Communication Engineering Department during 2023-2024.



1.1 Academic Staff:

Head of the Department: Dr. Koushik Guha, Associate Professor

Name of Faculty members:

Professor	Associate Professor	Assistant Professor
Prof. Fazal A. Talukdar	Dr. Madhumita Banerjee	Dr. Ram Kumar Karsh
Prof. Srimanta Baishya	Dr. Wasim Arif	Dr. Ganesh Prasad
Prof. Madhuchhanda Choudhury	Dr. Koushik Guha	Dr. Chandrajit Choudhury
Prof. Krishna Lal Baishnab	Dr. Trupti Ranjan Lenka	Dr. Prabina Pattanayak
Prof. Rabul Hussain Laskar	Dr. Ashraf Hossain	Dr. R. Murugan
Prof. Brinda Bhowmick	Dr. Taimoor Khan	Dr. Kavicharan Mummaneni
	Dr. Banani Basu	Dr. Pukhrambam Puspa Devi
	Dr. S. K. Tripathy	Dr. Gaurav Singh Baghel
	Dr. Arnab Nandi	Dr. M. V. Swati
	Dr. Ujjal Chakraborty	Dr. Tripti Goel
		Dr. Devendra Singh Gurjar
		Mr. Anupal Deka
		Dr. Bijit Choudhuri
		Dr. Arun Kumar
		Dr. Himanshu Karan
		Dr. Rajesh Saha
		Dr. Sucharita Chakraborty
		Dr. Dipjyoti Das

Visiting Professor (If any):

1. Prof. Sembiam R. Rengarajan, California State University Northridge, USA (2020-Till Date)
2. Dr. Dragna Krstic, Faculty of Electronics Engineering, University of Nis, Serbia, Nov. 2023
3. Prof. Nenad Milosevic, Faculty of Electronics Engineering, University of Nis, serbia, Nov. 2023

1.2 Distinction Achieved

a) By Student:

1. 3rd-year BTech student, Vishnu Padmakumar, has been selected for the esteemed German DAAD Wise Fellowship.
2. Agneesh Dasgupta (Team Leader), Manish Sarmah, Shayan Debroy, Diya Karmakar, Sourjya M. Mukherjee, Biju Borah are the winners of the Smart India Hackathon 2023 with groundbreaking project "FloodSafeGIS" under the mentorship of Dr. Wasim Arif.
3. Three of our 4th-year students from the Electronics and Communication Engineering (ECE) department, CHAYANDEEP CHAKRABORTY, MAITHILEE DESHPANDE and



AMOGH PRABHU have secured All-India Rank of 189, 557 and 764 respectively in GATE 2024.

4. Two of our 3rd-year students from the Electronics and Communication Engineering (ECE) department, BHISETTI S L SRINIVASA SARVA LOKESH and BHARGAB RAJ GOGOI have secured All-India Rank of 142 and 479 respectively in GATE 2024.
5. Kishan Mittal, Ayush Maurya, Kashish Sharma, Rayyan Shaikh, Dev Vedit's team 'Ethigardians' has won 5th position in Dark Patterns Buster Hackathon (DPBH-2023) held in IIT BHU on 17 Feb 2024 organized by Department of Consumer Affairs, Ministry of Consumer Affairs, Food and Public Distribution, Government of India.

b) By Faculty Member:

1. Dr. R Murugan, received the best use of technology award in Biodesign Hackathon for Innovation in Medical Device and Systems organized by School of Innovations in Biomedical Devices and Systems, IIT Guwahati from 13-16 September 2023.
2. Dr. K. Guha, Appointed as Editor of prestigious journal IETE Journal of Research of Taylor & Francis.
3. Dr. K. Guha, Resource Person in one-week Faculty Development Programme on "Exploring the Cutting-Edge Developments in VLSI Design" held on 18th - 23rd March 2024 organized by VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad.
4. Dr. K. Guha, Resource Person in the celebration of National Science Day on 28th February 2024 organized by Viksit Bharat Cell and Internal Quality Assurance Cell, Gurucharan College, Silchar, Assam.
5. Dr. K. Guha, Keynote Speaker in International Conference on Advances in Sustainable Development, Innovation and Green Technology (ICAS-DIGT-2024) during 19-21 February 2024 organized by Faculty of Engineering, Assam down town University (AdtU) in collaboration with Assam Engineering College, NIELIT Guwahati, and Gauhati University, Assam.
6. Dr. K. Guha, Resource Person in 3 days online FDP with title "Electronic Design in Healthcare: Recent trends, challenges and research scope" held on 12 Oct 2023 to 14 Oct 2023 organized by Department of Micro and Nanoelectronics, School of Electronics Engineering (SENSE), Vellore Institute of Technology (VIT), Vellore, Taminadu.
7. Dr. K. Guha, External examiner for the evaluation of B.Tech & M.Tech final year projects in Dept. of ECE, Assam University, Silchar on 14 August 2023.
8. Dr. K. Guha, Resource Person in one-week STTP on "Analog & Digital VLSI Design using Cadence Virtuoso" held on 17-22 July, 2023 organized by IEEE student Branch Gauhati University and RESONICS, Dept. of ECE, Gauhati University.



9. Dr. K. Guha, Invited Speaker in 10th International Conference on Microelectronics, Circuits & Systems (Micro 2023) on 1-3 July, 2023, Guwahati, Assam, India organized by Applied Computer Technology Kolkata, West Bengal, India.
10. Dr. K. Guha, Resource Person in one-week FDP on "Recent trends and technology development in IoT and AI" held on 8-17 June, 2023 organized by Electronics and Communication Engineering Department of KL University, AP.
11. Dr. K. Guha, Resource Person in 5th IEEE International Conference on "Devices for Integrated Circuits (DevIC 2023) held on 7-8 April, 2023 organized by IEEE EDS Kalyani Government Engineering College Student Branch Chapter, Kalyani Govt. Engg. College, West Bengal.
12. Dr. Rajesh Saha, Enlisted in top 2% Scientist in the world list for given by Stanford University and Elsevier, October – 2023

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) Conducted by Faculty Member

Sl. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	Dr. Chandrajit Choudhury and Dr. R. Murugan	Hands-on session on IOT and robotics.	ECE Department NIT Silchar and FITAS Technologies Pvt. Ltd.	2 days (23rd-24th August, 2024.)
2	Dr. M. V. Swati and Dr. Gaurav Singh Baghel	High-End Workshop on Futuristic Trends in Microwave and Millimeter Wave Technologies: An ML Approach	SERB Sponsored (Karyashala)	7 days (1st-7th June, 2023.)
3	Dr. R. Murugan	Faculty Development Program on "Communication, Signal Processing and Advance Technologies For Next Generation Applications"	BBIT, Kolkata,	5 Days 20/11/2023 to 24/11/2023.
4	Dr. R Murugan	BootCamp on Drone Skill Development and Entrepreneurship Training Programme	MIETY	5 Days 03/10/2023 to 07/10/2023.
5	Dr. Koushik Guha	Organized 3rd International Conference on Micro/Nanoelectronics Devices, Circuits, and Systems (MNDCS 2022) in Virtual Mode during 29 Jan-31 Jan 2024 as organizing chair.	IEEE EDS, USA	3 days (29-31 January 2023)



b) Participated by Faculty Member

Sl. No.	Name of Faculty	Details of the Program	Organizing Institute
1	Dr. R. Murugan	Biodesign Hackathon, from 13-16 September 2023.	IIT Guwahati
2	Dr. Ujjal Chakraborty	The International Conference on Computers and Devices for Communication (CODEC), December 14-16. 2023.	Calcutta University
3	Dr. Koushik Guha	10th International Conference on Microelectronics, Circuits and Systems (Micro 2023) during 1-3 July 2023 at Hotel Taj Vivanta, Guwahati, India	Applied Computer Technology, Kolkata, West Bengal, India
4	Dr. Koushik Guha	5th IEEE International Conference on "Devices for Integrated Circuits (DevIC 2023) held on 7-8 April, 2023 organized by IEEE EDS Kalyani Government Engineering College Student Branch Chapter, Kalyani Govt. Eng. College, West Bengal	Kalyani Government Engineering, West Bengal
5	Dr. Koushik Guha	One-week STTP on "Analog & Digital VLSI Design using Cadence Virtuoso" held on 17-22 July, 2023 organized by IEEE student Branch Gauhati University and RESONICS, Dept. of ECE, Gauhati University	Gauhati University and RESONICS, Dept. of ECE, Gauhati University
7	Dr. Koushik Guha	International Conference on Advances in Sustainable Development, Innovation and Green Technology (ICAS-DIGT 2024) during 19-21 February 2024 organized by Faculty of Engineering, Assam down town University (AdtU) in collaboration with Assam Engineering College, NIELIT Guwahati, and Gauhati University, Assam	Assam down town University, Guwahati, Assam

1.4 Research Development

a) Ph.D. Programme (Specializations):

Microelectronics and VLSI, Communication and Signal Processing, Communications Engineering, RF and Microwave Engineering, Machine and Deep Learning.

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

Completed	Submitted	Ongoing
8	10	47

c) Lab / Workshop:

Sl. No.	Name of Lab/Workshop	Purpose/Linkage to an existing/new programme



1	TeraHertz Devices Lab	Research work related to THz devices/systems for UG/PG/PhD students.
2	Biomedical Imaging lab. (BIOMIL)	Research work related to medical imaging and technology for UG/PG/PhD students
3.	Research lab (Sponsored by SERB)	Research work related to Semiconductor Devices for UG/PG/PhD students

d) Ongoing/Completed Sponsored Research Project:

Ongoing (Major Funded Project)					
Sl. No.	Name and Role of Investigator	Foreign Collaborator	Project Title	Funding Agency	Sanctioned Fund and Status
1.	Taimoor Khan, Lead Indian Collaborator	Prof. Sembiam R. Rengarajan, California State University Northridge, USA	Some Investigations on Design and Development of Efficient Printed Components for 5G Wireless Communications	SERB, Gol (VAJRA Scheme)	108.348 Lakh (2020-2025)
2.	Dr. Chandrajit Choudhury (PI)		Development of Reinforcement learning based mobile tracker for an intelligently guided mobile target.	AR&DB, DRDO, Govt. of India	73.83 Lakhs (2022-2025)
3	Dr. T. R. Lenka (PI)		Characteristics Study of Heterojunction Nanoelectronics Devices using Quantum Transport Models through an Indigenous Program File No. MTR/2021/000370	DST-SERB (ANRF)	6.60 Lakhs
4	Dr. T. R. Lenka (PI) & Dr. S. K. Tripathy (Co-PI)		Development of Low-Cost, High-Stability and High-Efficiency Perovskite Solar Cell for Energy Harvesting: A Theoretical and Experimental Study File No. 22 (0830)/19/EMR-II	CSIR	21.50 Lakhs
5.	Dr. Tripti Goel		Development of the deep learning-based risk prediction and diagnostic model for Alzheimer's Disease using integration of functional and structural MRI Scans File no CRG/2022/006866	SERB-CRG	30 Lakhs (2023-2026)



6.	Dr. Gaurav Singh Baghel (PI) & Dr. M. V. Swati (Co-PI)		Design and modeling of a Ka-band, multi-beam gyrokystron amplifier for RADAR applications.	SERB-CRG	32 Lakhs (2024-2027)
7.	Dr. M. V. Swati (PI) & Dr. Gaurav Singh Baghel (Co-PI)		Design Study of A W-band, 100KW, Multi-Cavity, Gyroklystron for RADAR System	DRDO	9.9 Lakhs (2023-2024)
8.	Dr. Arun Kumar (PI)		Development of a machine learning framework to accelerate prediction of self-heating-driven reliability issues in emerging nanosheet transistors SRG/2023/001028	SERB, DST	Rs. 26.435 lakhs (2023-2025)
9.	Dr. Devendra Singh Gurjar Principal Investigator		Development of Secure and Spectral Efficient Simultaneous Wireless Information and Power Transfer Systems for Large-Scale Wireless Networks	Department of Science and Technology, Govt. of India (India-Serbia Joint Research Projects)	INR 14.75 Lakhs (2023-26)
10	Dr. R Murugan (PI)		Diagnosis of retinal pathologies using Deep learning	NVIDIA Corporation, USA	12 Lakhs (2022-2026)
11	Dr. R Murugan (PI)		Modelling and Design of An Affordable Cyber-Physical Systems for Diagnosis of Retinal detachment through Fundus Images	IITI DRISHTI CPS Foundation	12 Lakhs (2023-2025)



12	Dr. R Murugan (Co-PI)		Capacity Building for Human Resource Development in Unmanned Aircraft System (Drone and Related Technology)	MeiTY	150 Lakhs (2022-2027)
13	Dr. P. Puspa Devi		Design and Development of Reconfigurable Plasmonic Biosensor using Phase Change Material for Label-Free Detection of Lung and Liver Diseases"	SERB	24.16lakh (2022-2025)
14.	Dr. Ujjal Chakraborty		Determination of the optimized frequency for underwater RF communication using metaheuristic technique and development of MIMO antenna for underwater communication	TIH, IITG	12 Lakhs (2023-2025)
15	Dr. Arnab Nandi (PI) & Dr. Banani Basu (Co-PI)		Low Cost Fast and Reliable Clinical Prototype Based on Microwave Imaging for Early Diagnosis and Continuous Monitoring of Breast Cancer using Convolutional Neural Network	Anusandhan National Research Foundation	24.56 Lakhs (2023-2026)
16	Dr. Banani Basu (PI) & Dr. Arnab Nandi (Co-PI)		Machine Learning for Classification of Human Activities Using Body Worn Low Profile Flexible Antenna	Anusandhan National Research Foundation	27.36 Lakhs (2021-2024)
17	Dr. Banani Basu (PI) & Dr. Arnab Nandi (Co-PI)		Modernization of weaving units for empowerment of economically weaker tribal women of Lakhimpur, Assam	DST	21.81 Lakhs (2020-2024)



18	Dr. Banani Basu		Analysis of Scattering Parameters Using Machine Learning Algorithm for Detection of Early Growth of Malignant Tissues inside Human Breast	Anusandhan National Research Foundation	6.6 Lakhs (2023-2026)
19	Dr. Koushik Guha		Modelling, Fabrication and Testing of MEMS based Hybrid Vibrational Energy Harvester having Segmented Electrodes and Storage	India Italy Bilateral under DST, Govt. of India	12 Lakhs 3 Years (2022 Jan to Dec 2024)
20	Dr. Koushik Guha (Co-PI) and Prof. K. L. Baishnab (PI)		Design and Development of Low Power Low Latency NonInvasive Seizure Detector System under Chips to Startup Programme (C2S)	MeitY, Govt. of India	109.89 lakhs 5 Years (2023-2028)
21	Dr. Koushik Guha (PI) and Prof. K. L. Baishnab (Co PI)		Design and Modeling of Lab-On Chip based Bio-reactors Capable of Mimicking Human Glomerulus Ultrafiltration and Reabsorption Function of Proximal Tubule of Kidney for in vivo implantation	DBT, Govt. of India	23.75 lakhs 18 months (Phase-I)
Completed (Major Funded Project)					
1.	Taimoor Khan Co-Principal Investigator	-	Development of a Prototype of Disabled-Friendly Automatic Virtual Text-Entry Keyboard Interface System under Practical Environmental Conditions	SERB, GoI (IMPRINT Scheme)	INR 89.45 Lakh (2020-2023)
2.	Taimoor Khan, Indian Principal Investigator	Prof. Yahia M.M. Antar and Prof. Al. P. Freundorfer, Queen's University Canada	Design and Development of Dielectric Resonator Based Electromagnetic Sensors for Efficient Harvesting of Renewable RF Ambient Energy in Smart City Applications	MHRD, GoI (SPARC Scheme)	INR 49.59 Lakh (2019-2023)



3.	Taimoor Khan, Principal Investigator		Development of EBG-Structured Printed Antennas for Ultrawideband Communication and Futuristic Modeling for Prediction of Performance Parameters using Computational Intelligence Techniques	SERB, GoI (CRG Scheme)	INR 16.28 Lakh (2017-2022)
4.	Dr. R Murugan (PI)		A Nationwide Study on Retinal Detachment in India with Emphasis on the Risk of the Fellow Eye through Fundus Images using Deep Learning	SERB	17 Lakhs (2020-2022)

Completed (Minor Funded Projects)

1.	Taimoor Khan Mentor		Circularly Polarized Electrically Small Efficient Rectenna Design for Wireless Power Transferred IoT Devices	IEEE, AP Society USA	3000 USD July 2021-June 2022
2.	Taimoor Khan Course Coordinator		One-Week ATAL Faculty Development Programme on "Information and Communication Technologies for Smart City Applications", ICT4Smart2021	AICTE New Delhi (ATAL FDP Scheme)	INR 93000 (11-15 Jan 2021)
3.	Taimoor Khan, Course Coordinator		GIAN Course on Antennas for RF Energy Harvesting Applications: Design, Development, and Challenges	MHRD, GoI (GIAN Scheme)	INR 5.44 Lakh (13-17 Nov 2017)

e) Research Paper Reviewed

Sl. No	Faculty Name	Journal Name	No. of Paper	Year
1	Taimoor Khan	1. IEEE Transaction on Antenna and Propagation. 2. IEEE Transaction on Microwave Theory and Techniques. 3. IEEE Antennas and Wireless Propagation Letters. 4. IEEE Microwave and Wireless Component Letters. 5. IEEE Antennas and Propagation Magazine.	14 15 17 14 15 11 13 14	2023-2024

		6. IEEE Microwave Magazine. 7. IET Microwaves, Antennas and Propagation. 8. Wireless Personal Communications. 9. AEU-International Journal of Electronics and Communications. 10. Journal of Electromagnetic Wave and Application. 11. International Journal of RF and Microwave Computer-Aided Engineering. 12. Microwave and Optical Technology Letters. 13. Microsystem Technologies. 14. IETE Journal of Research. 15. IETE Technical Review 16. International Journal of Microwave and Wireless Technologies 17. International Journal of Antenna and Propagation, Hindawi	14 13 10 13 15 15 17 14	
2	Sucharita Chakraborty	1. IEEE Transactions on Vehicular Technology 2. IEEE Transactions on Wireless Communications 3. IEEE Wireless Communications Letters IEEE Communications Letters	14 5 6 1	2024
3	Tripti Goel	1. IEEE Transactions on Fuzzy Systems. 2. Engineering Applications of Artificial Intelligence. 3. Computers and Electrical Engineering. 4. Applied Soft Computing Journal. 5. Neural Network. 4. Scientific Reports.	4 5 3 3 1 1	2024
4.	Chandrajit Choudhury	6. 1. Computers and Electrical Engineering,	2	2024
5.	Ram Kumar Karsh	1. IEEE Transactions on Cybernetics. 2. IEEE Transactions on Dependable and Secure Computing 3. IEEE Transactions on Consumer Electronics 4. IEEE Transactions on Information Forensics & Security 5. Signal Processing (Elsevier) 6. Neural Computing and Applications (Springer) 7. Measurement (Elsevier) 8. Information Fusion (Elsevier) 9. Engineering Applications of Artificial Intelligence (Elsevier) 10. Robotics and Computer-Integrated Manufacturing (Elsevier) 11. Telematics and Informatics R (Elsevier) 12. Microelectronics (Elsevier) 13. Building and Environment (Elsevier) 14. Biomedical Signal Processing and Control (Elsevier)	1 1 1 1 2 2 3 1 1 1 1 1 1 1 2	2023 2023 2023 2024 2023-2024 2023-2024 2023-2024 2024 2024 2024 2024 2024 2023 2023-2024



		15. Artificial Intelligence In Medicine (Elsevier) Applied Soft Computing Journal (Elsevier)	2 2	2023-2024
6.	Brinda Bhowmick	1. IEEE Sensors journal 2. IEEE Transactions on Electron Devices 3. Microsystem technology 4. IEEE Transactions on Nanotechnology 16. International Journal of Numerical modelling, Wiley	5 2 2 1 2	2023-2024
7.	Devendra Singh Gurjar	1. IEEE Internet of Things Journal 2. IEEE Transactions on Green Communications and Networking 3. IEEE Systems Journal 4. IEEE Transactions on Neural Networks and Learning Systems 5. IEEE Wireless Communications Letters	7 1 1 1	2023-2024
8.	S. K. Tripathy	1. ACS omega 2. Advance Theory and Simulation 3. Advanced Engineering Materials 4. Computational Condensed Matter 5. Journal of Electronic Materials 6. Journal of Optics 7. JPCS 8. Molecular Simulation 9. The Journal of Physical Chemistry 10. PSS B	1 1 1 1 1 1 1 1 3 1	2024 2024 2023 2024 2023 2023 2023 2024
9.	Himanshu Karan	1. Microsystem Technologies 2. Semiconductor Science and Technologies	2 1	2024
10.	Gaurav Singh Baghel	1. IEEE Transactions on Plasma Science 2. IEEE Transactions on Electron Devices 3. Applied Artificial Intelligence	2 3 1	2023-2024 2023-2024 2023
11.	Arun Kumar	3. IET Circuit Devices & Systems	1	2023-2024
12.	Bijit Choudhuri	1. Scientific Reports 2. Journal of Crystal Growth 3. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields 4. Automatika: Journal for Control, Measurement, Electronics, Computing and Communications 5. AIMS Electronics and Electrical Engineering 6. IEEE Electron Device Letters 7. Microsystem Technologies. 1. Applied Nanoscience	1 2 1 1 1 1 1 1	2023-2024



13	Dipjyoti Das	1. IEEE Electron Device Letters 8. Physica Status Solidi (RRL)-Rapid Research Letters	6 1	2023-2024
14	Ganesh Prasad	1. IEEE Transactions on Communications 2. IEEE Transactions on Wireless Communications 3. IEEE Transactions on Green Communications and Networking 2. IEEE Access	2 1 2 5	
15	Dr. Koushik Guha	1. IEEE Sensors Journal 2. Nano Letters 3. Microsystem Technologies, Springer 4. Advances in Polymer Technology Wiley 5. Sensors, MDPI 4. International Journal of Modelling and Simulation	3 2 3 1 2 1	2023-2024
16	Prof K.L. Baishnab	1. Wireless Personal Communication 6. Springer	2 2	2024
17	Dr. Rajesh Saha	1. IEEE Sensors journal 2. Microelectronics Journal 3. Micro and nano structures 4. IEEE Transactions on Nanotechnology 5. Physica Scripta 2. Microelectronics Reliability	2 5 6 2 3 1	2023-2024

f) Chairing of the Technical Session

Sl. No	Faculty Name	Details
1.	Ram Kumar Karsh	1. International Conference On Signal Processing and Computer Vision (SIPCOV-2023) from 30 to 31 March 2023 at NIT Silchar, India 2. International Conference on Micro /Nanoelectronics Devices, Circuits and Systems, National Institute of Technology Silchar, Conference Date: 29-31 January 2023 3. International Conference On Signal Processing and Computer Vision (SIPCOV-2023) from 30 to 31 March 2023 at NIT Silchar, India 4. International Conference on Micro/Nanoelectronics Devices, Circuits and Systems, National Institute of Technology Silchar, Conference Date: 29-31 January 2023.



2.	Devendra Singh Gurjar	1. Session Chair: International Conference on Machine Learning and Big Data Analytics (ICMLBDA) 2024 2. Session Chair: 2023 IEEE Silchar Subsection Conference
3.	T. R. Lenka	1. IEEE 33rd International Conference on Microelectronics (MIEL 2023), 16-18 Oct 2023 at Faculty of Electronic Engineering, University of Nis, Serbia (Two conference regular sessions: Device Physics and Characterizations; Device Technology and Characterization, and One Plenary Session) 2. 5th IEEE International Conference on Devices for Integrated Circuits (DevIC 2023), 7-8 Apr 2023 at Kalyani GEC, WB, India.
4.	Arun Kumar	Session Chair: 3rd INTERNATIONAL CONFERENCE ON EMERGING ELECTRONICS AND AUTOMATION, Dec. 2023 Session Chair: 2023 IEEE Silchar Subsection Conference
5.	Gaurav Singh Baghel	1. Session Chair: 2023 IEEE Silchar Subsection Conference (SILCON 2023) 2. 3rd International Conference on Emerging Electronics and Automation (E2A 2023) 3. 4th International Conference on Micro /Nanoelectronics Devices, Circuits and Systems (MNDSCS 2024)
6	Dr. R Murugan	1. Session chair at International Conference On Signal Processing and Computer Vision (SIPCOV-2023) from 30 to 31 March 2023 at NIT Silchar, India 2. Session chair at International Conference on Micro /Nanoelectronics Devices, Circuits and Systems, National Institute of Technology Silchar, Conference Date: 29-31 January 2023 3. Session chair at 3rd International Conference on Emerging Electronics and Automation Organized by Department of Electronics and Instrumentation Engineering National Institute of Technology Silchar, Assam, India from 15-17-2023.
7	Dr. Ujjal Chakraborty	1. 4th International Conference on Micro /Nanoelectronics Devices, Circuits and Systems (MNDSCS 2024)
8	Dr. Kavicharan Mummaneni	1. Session chair at 4th International Conference on Micro /Nanoelectronics Devices, Circuits and Systems (MNDSCS 2024) 2. Session Chair: 2023 IEEE Silchar Subsection Conference (SILCON 2023)
9	Dr. Koushik Guha	1. Chair of Technical Session in 10th International Conference on Microelectronics, Circuits and Systems (Micro 2023) during 1-3 July 2023 at Hotel Taj Vivanta, Guwahati, India 2. Chair of Technical Session in 5th IEEE International Conference on "Devices for Integrated Circuits (DevIC 2023) held on 7-8 April, 2023 organized by IEEE EDS Kalyani Government Engineering College Student Branch Chapter, Kalyani Govt. Eng. College, West Bengal.



		3. Chair of Technical Session in International Conference on Advances in Sustainable Development, Innovation and Green Technology (ICAS-DIGT-2024) during 19-21 February 2024 organized by Faculty of Engineering, Assam down town University (AdtU) in collaboration with Assam Engineering College, NIELIT Guwahati, and Gauhati University, Assam.

1.5 PUBLICATION

a) Journal (s):

1. N. Singh, T. Khan, S. Kumar, B.K. Kanaujia, H.C. Choi, K.W. Kim, K. Rambabu, S.R. Rengarajan, and A.A. Kishk, "Ultra-Thin Flexible Rectenna Integrated with Power Management Unit for Wireless Power Harvester/Charging of Smartwatch/Wristband" Scientific Reports, vol. 14, pp. 7447, 28 March 2024, DOI: <https://doi.org/10.1038/s41598-024-57639-1>.
2. Partha P. Shome, Debanjali Sarkar, Taimoor Khan, Naoki Shinohara and Yahia M.M. Antar, "From Waves to Watts: Advancements in Rectenna Arrays for RFEH and WPT", IEEE Antennas and Propagation Magazine, Accepted on 3 September 2024.
3. Praveen Kumar, Tanweer Ali, Manohara Pai M.M, Sameena Pathan, Krishnamurthy Nayak, Taimoor Khan, and Ahmed A. Kishk, "A Quad Port Dual Band Notch UWB MIMO Antenna using Hybrid Decoupling Structure", Results in Engineering, Elsevier, vol. 23, September 2024, DOI: <https://doi.org/10.1016/j.rineng.2024.102551>
4. Md. Ahsan Halimi, Taimoor Khan, Ahmed A. Kishk, and Sembiam R. Rengarajan, "Design of A Frequency Selectable Rectifier Using Tuned Matching Circuit for RFEH Applications", IETE Journal of Research, Taylor and Francis, vol. 70, Issue 1, 2024 pp. 164-172, 3 June 2024, DOI: <https://doi.org/10.1080/03772063.2022.2112986>
5. Sanjay Kumar Sharma, Taimoor Khan, Akhilendra Pratap Singh "Metasurface Loaded Tri-Band Antenna for Sub-6GHz 5G and 6G WPT Applications", Journal of Electromagnetic Waves and Applications, Vol. 38, Issue 10, 27 May 2024. DOI: <https://doi.org/10.1080/09205071.2024.2359719>
6. B.G. Parveez Shariff, Tanweer Ali, Pallavi R. Mane, Mohammed Gulam Nabi Alsath, Pradeep Kumar, Sameena Pathan, Ahmed A Kishk and Taimoor Khan, "Design and Measurement of a Compact Millimeter Wave Highly Flexible MIMO Antenna Loaded with Metamaterial Reflective Surface for Wearable Applications", IEEE Access, Published on 21 February 2024. DOI: <https://doi.org/10.1109/ACCESS.2024.3368394>
7. Sumon Modak, Vikrant Kaim, Taimoor Khan, Binod Kumar Kanaujia, Ladislau Matekovits, Karumudi Rambabu, "Design and Performance Measurement of Worn-on-Body Instrumental Ultra-Miniaturized UWB Wearable Patch for e-Health Monitoring", IEEE Access, 13 February 2024. DOI: <https://doi.org/10.1109/ACCESS.2024.3365938>



8. M.A. Halimi, Taimoor Khan, D. Surender, Nasimuddin, and S.R. Rengarajan, "Dielectric Resonator Antennas for RFEH/WPT Applications: A State-of-Art Review", IEEE Antennas and Propagation Magazine, Vol. 66, Issue 1, pp. 34-45, February 2024, DOI: <https://doi.org/10.1109/MAP.2023.3236270>
9. Sounik Kiran Kumar Dash, Qingsha S. Cheng, Taimoor Khan, Manish Varun Yadav, Lei Wang, "5G Millimeter-Wave MIMO DRAs with Reduced Mutual Coupling" Microwave and Optical Technology Letters, Wiley Interscience, Vol. 66, Issue 1, January 2024. DOI: <https://doi.org/10.1002/mop.33982> .
10. Md. Ahsan Halimi, Taimoor Khan, Ahmed A. Kishk and Yahia M.M. Antar, "Efficient Rectifier Circuit Operating at N78 and N79 Sub-6 GHz 5G Bands for Microwave Energy Harvesting and Power Transfer Applications", International Journal of Microwave and Wireless Technologies, Cambridge Univ, pp. 1-8, Published on 25 October 2023. DOI: <https://doi.org/10.1017/S1759078723001162>
11. Debanjali Sarkar, Taimoor Khan, Sembiam R. Rengarajan, "Prior-Knowledge Incorporated Forward and Reverse Neural Network Modeling for Estimating Performance Parameters of Band-Notched UWB MIMO Antennas: Smart Estimation Strategies", IEEE Antennas and Propagation Magazine, Vol....Issue..... 2023, Published on 29 November 2023. DOI: <https://doi.org/10.1109/MAP.2023.3330393>
12. Partha P. Shome, Taimoor Khan, Binod K Kanaujia, Ahmed A. Kishk, and Yahia M. M. Antar, "Uni-directive Miniaturized Ultra-Wideband Antenna for Sensing Buried Objects in Handheld Ground Penetrating Radar Systems", IEEE Antennas and Propagation Magazine, Vol 65, Issue 5, pp. 46-55, October 2023. DOI: <https://doi.org/10.1109/MAP.2022.3203311>
13. Rakesh Nath Tiwari, Deepti Sharma, Prabhakar Singh, Vikrant Kaim, Taimoor Khan, and B.K. Kanaujia, "Design and Validation of Loop-based Ultraminiature Low-Profile Ultrawideband Capsule Antenna inside Wistar Rat", IEEE Transactions on Ant and Propagation, Vol. 71, Issue 10, October 2023. DOI: <https://doi.org/10.1109/TAP.2023.3301952>
14. Partha Pratim Shome, Taimoor Khan, Ahmed A Kishk and Yahia M.M. Antar, "Quad-Element MIMO Antenna System using Half-Cut Miniaturized UWB Antenna for IoT-Based Smart Home Digital Entertainment Network" IEEE Internet of Things Journal, Vol. 10, Issue 20, pp. 17964-17976, 15 October 2023, DOI: <https://doi.org/10.1109/JIOT.2023.3280628>
15. Merih Palandoken, Cem Gocen, Taimoor Khan, Zahriladha Zakaria, Issa Elfergani, Chemseddine Zebiri, Jonathan Rodriguez, Raed A Abd-Alhameed, "Novel Microwave Fluid Sensor for Complex Dielectric Parameter Measurement of Ethanol-Water Solution", IEEE Sensors Journal, Vol. 23, Issue 13, July 2023. DOI: <https://doi.org/10.1109/JSEN.2023.3276817>
16. Debanjali Sarkar, Taimoor Khan, Fazal A. Talukdar, and Sembiam R. Rengarajan, "Computational Intelligence for Modeling and Optimization of RFEH and WPT Systems: A Comprehensive Survey", IEEE Microwave Magazine, Vol. 24, Issue 9, pp. 46-60, September 2023. DOI: <https://doi.org/10.1109/MMM.2023.3284764>
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b) International Conference(s):

1. Mamoni Saha, Taimoor Khan, Partha Pratim Shome, Fazal A Talukdar and Sembiam R. Rengarajan, "Multi-Resonant High Gain Antenna Using Dual-Slots for 5G Millimeter-Wave Energy Harvesting Applications", IEEE TENCON 2024, December 1-4, 2024, Marina Bay Sands, Singapore. (Accepted)
2. Debanjali Sarkar, Partha Pratim Shome, Venkateswara Rao Bhukya, Ratna Kumari Duru, Mamoni Saha and Taimoor Khan' "Compact Circularly Polarized Microstrip Antenna with Harmonic Suppression for Enhanced Ambient RF Energy Harvesting", IEEE TENCON 2024, December 1-4, 2024, Marina Bay Sands, Singapore. (Accepted)
3. Taimoor Khan (Invited paper), "RF Energy Harvester for Biomedical Applications: Opportunities and Challenges", 6th URSI Regional Conference on Radia Science (URSI-RCRS 2024) in Bhimtal, Uttarakhand, 22-25 October 2024. (Accepted)
4. Mamoni Saha, Taimoor Khan, Fazal Ahmed Talukdar, "Dual Polarized, Broadband, and High Gain Semi-Flexible Antenna for RFEH Applications in 5G Millimetre Wave Environment", 6th URSI Regional Conference on Radia Science (URSI-RCRS 2024) in Bhimtal, Uttarakhand, 22-25 October 2024. (Accepted)
5. Daasari Surender, Ponnarn Manaswini, Ponnarn Srinidhi, Mothukuri Sreeja, Adama Venkata Reddy and Taimoor Khan, "Triple-Facet Loaded Dual-Polarized Quad-band DRA for Self-Renewable Smart City Applications using RF Energy Harvesting", 2nd International Conference on Microwave, Antenna and Communication 2024, Dehradun, India, October 4-6, 2024. (Accepted)
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4. Book: Koushik Guha, Gorachand Dutta, Arindam Biswas, K. Srinivasa Rao, "MEMS and Microfluidics in Healthcare: Devices and Applications Perspectives", Springer Singapore, 2023, Pages: 244, Hardcover ISBN: 978-981-19-8713-7, <https://doi.org/10.1007/978-981-19-8714-4>.
5. Chaya, B.M., Guha, K., Venkatesha, M., Vaishnavi, A., Narayan, K. (2023). Optical Analysis of Far-Field Intensity on Organic Light-Emitting Diode to Reduce Surface Plasmon Losses. In: Lenka, T.R., Misra, D., Fu, L. (eds) Micro and Nanoelectronics Devices, Circuits and Systems. Lecture Notes in Electrical Engineering, vol 904. Springer, Singapore. https://doi.org/10.1007/978-981-19-2308-1_7.
6. Subhash Turaka, Valanukonda Bhavya Bhargavi, Naga Nikhila Nandam, Shahed Baba Syed, Nanda Sai Donepudi, Dhanya Yalamanchili, Koushik Guha & Jasti Sateesh; "A Review on Recent Trends in the Segregation of Red Blood Cells Using Microfluidic Devices". In: Guha, K., Dutta, G., Biswas, A., Srinivasa Rao, K. (eds) MEMS and Microfluidics in Healthcare. Lecture Notes in Electrical Engineering, vol 989. Springer, Singapore. https://doi.org/10.1007/978-981-19-8714-4_3 (2023).
7. Mareedu Nagavalli, Tatineni Sharmila Swaroopa, Pannangi Sri Vidya Gayathri, Vuyyuru Dinesh Kumar Reddy, Nanda Sai Donepudi, Dhanya Yalamanchili, Koushik Guha & Jasti Sateesh; "A Road Map to Paper-Based Microfluidics Towards Affordable Disease Detection". In: Guha, K., Dutta, G., Biswas, A., Srinivasa Rao, K. (eds) MEMS and Microfluidics in Healthcare. Lecture Notes in Electrical Engineering, vol 989. Springer, Singapore. https://doi.org/10.1007/978-981-19-8714-4_4.



8. Swagata Devi, Sourav Nath, Koushik Guha, and Krishna Lal Baishnab; "Design and Analysis of OTA-OC CMOS Filter for Recording High Focal Oscillations-EEG Application", In: Smart Electronic Devices and Systems for Biomedical and Healthcare Applications edited by Upendra Kumar, Rajesh K. Kesharwani, Raj K. Keservani, PhD, MPharm, Hard ISBN: 9781774918166, published by Apple Academic Press, 2024.
9. Iannacci, J. Guha, K. et al. (2024). A Comparative Study of Diverse RF-MEMS Switch Design Concepts Experimentally Verified up to 110 GHz for Beyond-5G, 6G and Future Networks Applications. In: Lenka, T.R., Saha, S.K., Fu, L. (eds) Micro and Nanoelectronics Devices, Circuits and P. T. O Systems. MNDCS 2023. Lecture Notes in Electrical Engineering, vol 1067. Springer, Singapore. https://doi.org/10.1007/978-981-99-4495-8_33.
10. Donelli, M., Manekiya, M., Iannacci, J., Guha, K. (2024). A Wearable Modulated Scattering Technique (MST) Sensor for Early Detection of Skin Tumours. In: Lenka, T.R., Saha, S.K., Fu, L. (eds) Micro and Nanoelectronics Devices, Circuits and Systems. MNDCS 2023. Lecture Notes in Electrical Engineering, vol 1067. Springer, Singapore. https://doi.org/10.1007/978-981-99-4495-8_35.
11. Kondamacharyulu, D., Tulasi, S.K., Srinivasulu, N., Guha, K., Baishnab, K.L. (2024). Using the Cell-Based Design, Employ a Contrivance Analysis on a Quadrature Phase Shift Keying Modulator. In: Lenka, T.R., Saha, S.K., Fu, L. (eds) Micro and Nanoelectronics Devices, Circuits and Systems. MNDCS 2023. Lecture Notes in Electrical Engineering, vol 1067. Springer, Singapore. https://doi.org/10.1007/978-981-99-4495-8_17.
12. Nath, S., Guha, K., Baishnab, K.L. (2024). A Review on Neural Amplifier Design for Brain Machine Interface. In: Lenka, T.R., Saha, S.K., Fu, L. (eds) Micro and Nanoelectronics Devices, Circuits and Systems. MNDCS 2023. Lecture Notes in Electrical Engineering, vol 1067. Springer, Singapore. https://doi.org/10.1007/978-981-99-4495-8_28.
13. Yadavalli, P.K., Pamarthi, A., Teki, D.S., Ed, K.R., Sanisetty, M., Guha, K. (2024). Design of High-Speed SRAM Cell Using FinFET Technology. In: Lenka, T.R., Saha, S.K., Fu, L. (eds) Micro and Nanoelectronics Devices, Circuits and Systems. MNDCS 2023. Lecture Notes in Electrical Engineering, vol 1067. Springer, Singapore. https://doi.org/10.1007/978-981-99-4495-8_26.
14. Shahbaz Hussain, M., Kandpal, J., Hasan, M., Guha, K. (2024). Implementation of Energy Efficient Full Adder for Arithmetic Application. In: Lenka, T.R., Saha, S.K., Fu, L. (eds) Micro and Nanoelectronics Devices, Circuits and Systems. MNDCS 2023. Lecture Notes in Electrical Engineering, vol 1067. Springer, Singapore. https://doi.org/10.1007/978-981-99-4495-8_20.

1.6 CONSULTANCY SERVICES:

NIL

1.7 MAJOR EQUIPMENT ACQUIRED:

1. G SA infrastructure (mid band), 5G Drones, Dongles, IoT Gateway, Router and Application Server, 5G Cameras, Sensors are acquired in 5G Research Lab.



2. GPU workstation, CPU desktop, oscilloscope, function generator, dc voltage source, soldering station, multimeter, acrylic cutter and drill set, precision tweezers ,4-wheel-drive robot, drone parts, circuit components are acquired in Robotics Lab.

1.8 PATENT:

Sl. No.	Details	Year
1	Indian Patent (Application No. 202111010790), Taimoor Khan and Partha Pratim Shome, "A Compact Quad-Element Ultrawideband Quasi-Monopole MIMO Antenna System Thereof", (1) Filed on 15-03-2021. (2) Published on 07 December 2022. (3) Granted on 29 May 2024.	2024
2	Indian Patent (Application No. 202111056214), Neeta Singh, Taimoor Khan and Binod Kumar Kanaujia, "Self-Sustainable Power Harvesting Device", (1) Filed on 03-12-2021. (2) Published on 10-12-2021. (3) Reply-1 Submitted on 23-04-2022. (4) Reply-2 Submitted on 04-10-2022. (5) Granted: 02 August 2023.	2023
3	Samadrita Das, Rabin Paul, G. Purnachandra Rao, Trupti Ranjan Lenka, Fazal Ahmed Talukdar, Ravi Teja Velpula, Hieu Pham Trung Nguyen, "A Device for Designing Hafnium (IV) oxide (HfO ₂)/ silicon dioxide (SiO ₂) Encapsulation-based III-Nitride Multi-Quantum Well Nanowire White-LED," South African Patent. App. No. 2022/12105, 07 th Nov 2022 (filed), Registration w. e. f 31 st May 2023. (Granted)	2023
4.	SIVAMOHAN KRISHNAVENI, BALAKRISHNAN LALITHADEVI, Raman Murugan, "Diabetic Retinopathy Detection System Using Deep Transfer Learning And Module Explainability Based On Grad-Cam Visualization", Indian Patent, App. No 202341005967	2023
5	Raman Murugan, Jagan Mohan, Tripti Goel, Shankar K, Sreejith S, "A Portable Ophthalmic Apparatus For Screening Diabetic Retinopathy" Indian Patent, App. No 202341005967 (Granted)	2023
6	Tripti Goel, R Sharma, R Khosla, R Murugan, "System for the early detection of Alzheimer's disease", German Patent (Granted)	2023
7	Indian Patent on "MINIATURE QUARTER MODE SUBSTRATE INTEGRATED WAVEGUIDE FILTER FOR RADIO FREQUENCY COMMUNICATION". Patent number: 410117-001	2024



1.9 VISITS TO ABROAD

1. Arun Kumar, 2024 Joint International Conference on Digital Arts, Media and Technology with ECTI Northern Section Conference on Electrical, Electronics, Computer and Telecommunications Engineering (ECTI DAMT & NCON), Chiang-mai, Thailand, Jan-2024.
2. Dr. Arnab Nandi, presented research articles in Photonics and Electromagnetics Research Symposium 2023 (PIERS 2023) Prague, Czech Republic, European Union, 3 - 6 July, 2023
3. Dr. Banani Basu, presented research articles in Photonics and Electromagnetics Research Symposium 2023 (PIERS 2023) Prague, Czech Republic, European Union, 3 - 6 July, 2023
4. Dr. Ganesh Prasad went for the post doctoral research in Linköping University, Sweden, 27/12/2022 to 26/12/2023
5. Dr. Koushik Guha , Scientific and research visit to Fondazione Bruno Kessler, Trento, Italy under bilateral India Italy project , 20.09.2023 – 05.10.2023
6. Dr. Koushik Guha , International Conference on Computer Science, Industrial Electronics (ICCSIE) 2023, Bali, Indonesia, 4-6 August 2023.

1.10 M. Tech. (Thesis/Project)

1. Hembha Thingbaijam, “Physical Layer Security in UAV Assisted Wireless Communication”, 2023-2024, ECE Dept, NIT Silchar, Assam, India. [Taimoor Khan, Joint Supervisor]
2. Mr. Kshitiz Ananad “Group Level Analysis of Susceptibility Weighted Imaging”.2022-2024, ECE Dept, NIT Silchar, Assam, India. [Dr. Tripti Goel, Sole-Supervisor].
3. Subhash Kumar, “Design and Investigation of Split-Gate Junctionless Nanosheet Field Effect Transistor” 2022-2024, ECE Dept, NIT Silchar, Assam, India. [Dr. Arun Kumar, Sole-Supervisor].
4. Mohit Mathur, “Design and Optimization of Low noise amplifier for WIFI” 2022-2024, ECE Dept, NIT Silchar, Assam, India. [Dr. Arun Kumar, Co--Supervisor].
5. Nivedita M , “ THROUGH-SILICON-VIA (TSV) INSERTION FOR AREA OPTIMIZATION OF SoC IN” 2021-2023, ECE Dept., NIT Silchar, Assam India. [Prof. Brinda Bhowmick, Sole Supervisor]
6. Ravi Kishan, “Power-Optimized Dhrystone Benchmark Design for FPGA Boards, “ 2022-24, ECE Dept., NIT Silchar [Supervisor: Prof B Bhowmick, Co-Supervisor: Prof. S Baishya]
7. TVS Kranti Kumar, “ CMOS 3 rd Order G m–C Lowpass Filter design,” 2022-24, ECE Dept., NIT silchar (Sole Supervisor: Prof B Bhowmick)
8. Santosh Kumar Mallick, Post Silicon Validation of VideoSS IP in Microcontroller for Automotive Applications, 2021-23, ECE Dept., NIT Silchar [Sole Supervisor: Dr. B. Choudhuri]
9. Muralitharan S, “Classification of Diabetic Retinopathy through Segmented Microaneurysm Features Using Deep Learning Algorithm”, 2022-2024 [Dr.R Murugan-Supervisor and Prof. R.H.Laskar-Co-Supervisor]



10. A. Bhavana, "Design and analysis of Y-shaped photonic crystal waveguide structure" 2021-2023 [Dr. P. Puspa Devi]
11. Barsha Barman, "Design and Investigation of MEMS Biosensor for Detection of HIV (Human Immunodeficiency Virus) Disease" Dr. Koushik Guha

1.11 Ph.D. Thesis

- (1) Saharul Alom Barlaskar (Registration Id. 19-3-04-101), Thesis Topic: Advancement in Digital Image Watermarking: A Comprehensive Framework for Copyright Protection through Integrated Geometric and Non-geometric Distortion Correction Technique, (2023-2024), [Taimoor Khan, Co-Supervisor]
- (2) Md. Ahsan Halimi (Registration Id: 19-3-04-105), Thesis Topic: Design and Development of Efficient Rectifier Circuits for RF Energy Harvesting and Wireless Power Transfer Applications. (2023-2024) [Taimoor Khan, Sole-Supervisor]
- (3) Surender Daasari (Registration Id: 17-3-04-114), Thesis Topic: Design and Development of Efficient Rectenna for RF Energy Harvesting Applications. (2022-2023) [Taimoor Khan, Co-Supervisor]
- (4) Rahul Sharma (Registration Id: 19-3-04-121), Thesis Topic: "Deep Learning Based Alzheimer's Disease Diagnosis Using Neuroimaging Data." (2024) [Dr. Tripti Goel, Sole-Supervisor].
- (5) N Jagan Mohan (Registration Id: 18-3-04-129), Thesis title : "An Empirical Study on Early Detection and Diagnosis of Diabetic Retinopathy Using Conventional and Deep Learning Techniques Through Fundus Images." (2024) (Dr.R Murugan-Supervisor and Dr. Tripti Goel, Co-Supervisor].
- (6) Mr. Amit Roy (18-3-04-127), Thesis Title: Design and Development of Textile Based Antennas for Wearable Applications. (Supervisor- Dr. Arnab Nandi) (Submitted)
- (7) Mr. Amiya De (16-3-04-102), Thesis Title:
-MUSIC DOA Estimation Based Optimal Beamforming ULA Antenna for Multiuser DS-CDMA Detection in Near-Far Effect. (Supervisor- Dr. Arnab Nandi) (Awarded)
- (8) Mr. Nirmalya Das (18-3-04-114), Title: Breast Cancer Detection Based on Microwave Signal using Artificial Intelligence, (Supervisor- Dr. Banani Basu) (Defended)
- (9) Preeti Mallela , Title: Design and Analysis of Low Frequency MEMS Accelerometer for detection of Parkinsons Disease in early stage, (Supervisor: Dr. Koushik Guha)
- (10) Siddhartha Roy, Thesis Title: Design and Development of Architecture of Lightweight Cryptographic Algorithm for Low Power IoT Devices (2023) (Supervisor- Prof. K. L. Baishnab) (Awarded)
- (11) Y P Maity, Thesis Title: Power Density-Aware 3D-IC Partitioning and Floorplanning Using State-of-The-Art Genetic (2023) (Supervisor- Prof. K. L. Baishnab) (Awarded)
- (12) Neeraj Kumar, Thesis Title: Modelling and Simulation of low power Tunnel FETs based devices for electronic ecosystem and biomedical applications (2023) (Supervisor- Prof. K. L. Baishnab) (Defended)



1.12 Technical Talks Delivered

1. Taimoor Khan (Invited Speaker), Topic: "Ambient RF Energy Harvesting for Sustainable Futuristic World" Faculty Development Program (FDP) on "Sustainable Energy Technologies and Green Mobility: Present Status and Future Prospects (SETGM 2024)" organized (virtual) by Department of Electrical Engineering, NIT Silchar during 12-16 September 2024.
2. Taimoor Khan (Invited Speaker), Topic, "Advantages of IEEE Membership for Early-Stage Undergraduate, Postgraduate, and PhD Students", "IEEE Membership Drive Program" organized (in person) by Department of Electronics and Communication Engineering, National Institute of Technology Silchar, 9 September 2024.
3. Taimoor Khan (Invited Speaker), Topic: "*RF Energy Harvesting in 5G Wireless Environment: Opportunities and Challenges*", 5-days Workshop on "5G Networks and IoT Devices" organized by Department of Electronics & Communication Engineering, NIT Mizoram during 9-23 August, 2024 (Hybrid Mode).
4. Taimoor Khan (Invited Speaker), Topic: "*Rectenna Design for RFEH/WPT Applications*", One-Week Faculty Development Program (FDP) on "Recent Trends in Bioelectromagnetic Research and Applications" Organized by School of Electronics Engineering (SENSE), VIT-AP University, India during 17 April - 23 April 2024.
5. Taimoor Khan (Invited Speaker), Topic: "*Fundamentals of Electromagnetics*" One-Week Faculty Development Program (FDP) on "Recent Trends in Bioelectromagnetic Research and Applications" Organized by School of Electronics Engineering (SENSE), VIT-AP University, India during 17 April - 23 April 2024.
6. Taimoor Khan (Invited Speaker), Topic: *IEEE Membership Benefits for Early UG/PG/PhD Student* in "*IEEE Membership Drive*", Organized by IEEE Silchar Subsection on 22 Feb 2024.
7. Taimoor Khan (Invited Speaker), Topic: *From Tesla to Tomorrow: A Journey Through Wireless Power Transfer in the 21st Century* in IEEE Wireless, Antenna, Microwave Symposium (IEEE WAMS-2024) at Department of Electronics and Communication Engineering, Raghu Institute of Technology, Visakhapatnam, Andhra Pradesh, India.
8. Taimoor Khan (Paper Presenter), Topic: "Intelligent Modeling of Circular Microstrip Antenna for RF Energy Harvesting Applications", IEEE Wireless, Antenna and Microwave Symposium (IEEE WAMS-2024), 28 Feb-3 March 2024, Visakhapatnam, Andhra Pradesh, India.
9. Taimoor Khan (Paper Presenter), Topic: "Reconfigurable Ultra-wideband Bandpass Filter with Controlled Band-Notches for Dynamic Operation", IEEE Wireless, Antenna and Microwave Symposium (IEEE WAMS-2024), 28 Feb-3 March 2024, Visakhapatnam, Andhra Pradesh, India.
10. Taimoor Khan (Invited Speaker) Topic: *Vector Calculus (12 June 2023)*, in SERB Sponsored VAJRA Course on *Fundamentals of Electromagnetics (EMF-2023)*, Jointly Organized by National Institute of Technology Silchar (India), Jawaharlal Nehru University Delhi (India) and California State University Northridge (USA) in Association with IEEE Kolkata Section Antennas and Propagation Society Joint Chapter-Silchar and IEEE Silchar Subsection and Hosted at Department of Electronics and Communication Engineering, National institute of Technology Silchar, India during 12-16 June 2023.



11. Taimoor Khan (Invited Speaker), Topic: *Electrostatics (13 June 2023)*, in SERB Sponsored VAJRA Course on *Fundamentals of Electromagnetics (EMF-2023)*, Jointly Organized by National Institute of Technology Silchar (India), Jawaharlal Nehru University Delhi (India) and California State University Northridge (USA) in Association with IEEE Kolkata Section Antennas and Propagation Society Joint Chapter-Silchar and IEEE Silchar Subsection and Hosted at Department of Electronics and Communication Engineering, National Institute of Technology Silchar, India during 12-16 June 2023.
12. Taimoor Khan (Invited Speaker), Topic: *Magnetostatics (14 June 2023)*, in SERB Sponsored VAJRA Course on *Fundamentals of Electromagnetics (EMF-2023)*, Jointly Organized by National Institute of Technology Silchar (India), Jawaharlal Nehru University Delhi (India) and California State University Northridge (USA) in Association with IEEE Kolkata Section Antennas and Propagation Society Joint Chapter-Silchar and IEEE Silchar Subsection and Hosted at Department of Electronics and Communication Engineering, National Institute of Technology Silchar, India during 12-16 June 2023.
13. Taimoor Khan (Invited Speaker), Topic: *Machine Learning Assisted Electromagnetic Framework for Modeling and Optimization of Antenna Application (6 June 2023) in SERB Sponsored High-End Workshop (Karyashala) on Futuristic Trends in Microwave and Millimeter Wave Technologies: An ML Approach (FMMT-2023)*, Organized by Department of Electronics and Communication Engineering, National Institute of Technology Silchar, India June 1-7, 2023.
14. Taimoor Khan (Invited Speaker), Topic: *Facet-Loaded Dielectric Resonator based Rectenna Design for Multi-Source RF Energy Harvesting Applications*, (14 May 2023), SERB funded Karyashala on "Hands-on Training on Design, Fabrication and Testing of 5G Antenna Using Machine Learning" Department of Electronics and Communication Engineering, SVNIT Surat, India, May 12- 19, 2023.
15. Taimoor Khan (Invited Speaker), Topic: *"RF Energy Harvesting and its Applications Wireless Devices/Sensor Nodes"* (18 Feb 2023), 10 days online Faculty Development Program (FDP) on "Recent Trends in Antenna Engineering and its Applications" 13th to 23rd February 2023, jointly organized by the Department of Electronics and Communication Engineering, Rajalakshmi Institute of Technology (RIT) Chennai, Tamil Nadu in association with Electronics & ICT Academy, NIT Warangal sponsored by Ministry of Electronics and Information Technology (MeitY), Govt of India.
16. T. R. Lenka (Invited Speaker), Invited Plenary Talk on *"III-Nitride Nanowire LEDs for Enhanced Light Technology"*, in IEEE 33rd International Conference on Microelectronics (MIEL 2023), 16-18 October, 2023 at Faculty of Electronic Engineering, University of Nis, Serbia.
17. T. R. Lenka (Invited Speaker), Invited Talk on *"GaN HEMT for RF and High-Power Nanoelectronics"* at IEEE EDS Summer School on Materials Science and Computational Physics, June 8-12, 2023, Tribhuvan University, Kathmandu, Nepal.
18. T. R. Lenka (Invited Speaker), Invited Talk on *"III-Nitride Nanowire LEDs for Enhanced Light Technology, IEEE-DevIC 2023"*, Kalyani Govt. Engineering College, Kalyani, West Bengal, India, Apr 07-08, 2023.



19. B. Bhowmick (Invited Speaker), Invited Talk on “ Semiconductor Devices for Sensing Applications and Energy Harvesters” DST-SERB Sponsored Workshop on Semiconductor Devices for IoT Applications, Lovely Professional University, 30th June to 1st July 2023.
20. B. Bhowmick (Invited Speaker), Invited Talk on “ Nano Scale Devices: from reliability issues to RF energy harvesting” ATAL Faculty Development Program (FDP) on Nano Electronics and RF Engineering from 06th to 10th September, SRM Institute of Science and Technology, Delhi NCR Campus, Ghaziabad, India
21. B. Bhowmick (Invited Speaker), Invited Talk on “ Semiconductor to Chips” on 14th June 2023 at Guru charan College Silchar, Assam, India in Short term certification course inauguration on Semiconductor.
22. Invited talked as Keynote Speaker in “The 5th International Conference on Research and Academic Community Services (ICRACRPS) 2023, September 2023, Surabaya, Indonesia

1.12 Course/FDP/Workshop/Conference/Meet Attended:

1. Taimoor Khan, IEEE Wireless, Antennas and Microwave Symposium (WAMS 2024) at Raghu Engineering College, Visakhapatnam, 29 Feb-3 March 2024.
2. Taimoor Khan, IEEE Membership Drive, Organized by IEEE Silchar Subsection on 22 Feb 2024.
3. Taimoor Khan, IEEE APS Distinguished Lecture Talk on “Organic Antenna-in-Package Designs for Millimeter Wave Applications”, jointly organized by IEEE APS Joint Section Chapter-Silchar, IEEE MTTS Student Branch Chapter, and IEEE Silchar Subsection in association with Department of Electronics and Communication Engineering, NIT Silchar on 12 January 2024.
4. Taimoor Khan, One Day IEEE Workshop (Hybrid Mode) on “Engineering Electromagnetics to Electromagnetic Engineering” jointly organized by IEEE APS Joint Section Chapter-Silchar, IEEE MTTS Student Branch Chapter, and IEEE Silchar Subsection in association with Department of Electronics and Communication Engineering, NIT Silchar on 19 December 2023.
5. Taimoor Khan, IEEE APS Distinguished Lecturer Talk, titled “Antenna Booster Technology for IoT: From Fundamentals to Applications” jointly organized by IEEE APS Joint Section Chapter-Silchar, IEEE MTTS Student Branch Chapter, and IEEE Silchar Subsection in association with Department of Electronics and Communication Engineering, NIT Silchar on 11 December 2023.
6. Taimoor Khan, IEEE APS Distinguished Lecturer Talk on “Metamaterials – A Manipulation of Waves”, jointly organized by IEEE APS Joint Section Chapter-Silchar, IEEE MTTS Student Branch Chapter, and IEEE Silchar Subsection in association with Department of Electronics and Communication Engineering, NIT Silchar on 4 December 2023.
7. Taimoor Khan, IEEE AP- and MTT-Societies Sponsored One Day Symposium on “Futuristics Antenna and Microwave Technologies for Space Applications” (FAMT4Space-2023) on 29th August 2023.



8. Taimoor Khan, IEEE Distinguished Talk on “Engaging Undergraduate Students in Research” delivered by Dr. Ravi Kumar Arya”, Distinguished Professor, Xiangshan Laboratory, Zhongshan Institute of Changchun University of Science and Technology, China on 2nd August 2023.
9. Taimoor Khan, IEEE APS Distinguished Lecture on “Phased Array Antenna Modeling: From the Array Factor to Network Theory and Array Signal Processing”, delivered by Prof. Karl F. Warnick, Brigham Young University, USA on 6th July 2023.
10. Taimoor Khan, IEEE APS Distinguished Lecture on “Design, Analysis, and Applications of Waveguide-Fed Slot Arrays” delivered by Prof. Sembiam R. Rengarajan, California State University Northridge, USA (Hybrid Mode) on 28th June 2023.
11. Taimoor Khan, One Week Indo-US VAJRA Course on “Fundamentals of Electromagnetics”, EMF-2023 in association with Jawaharlal Nehru University Delhi (India) and California State University Northridge (USA) during 12-16 June 2023.
12. Taimoor Khan, VAJRA General Public Talk on “The Legacy of James Clerk Maxwell” delivered by Prof. Sembiam R. Rengarajan, California State University Northridge, USA (Hybrid Mode) on 9th June 2023.
13. T. R. Lenka, IEEE 33rd International Conference on Microelectronics (MIEL 2023), 16-18 Oct 2023 at Faculty of Electronic Engineering, University of Nis, Serbia (Two conference regular sessions: Device Physics and Characterizations; Device Technology and Characterization, and One Plenary Session)
14. T. R. Lenka, 5th IEEE International Conference on Devices for Integrated Circuits (DevIC 2023), 7-8 Apr 2023 at Kalyani GEC, WB, India.
15. D. Das, 2024 8th IEEE Electron Devices Technology & Manufacturing Conference (EDTM), 2024, Bangalore, India.
16. Arun Kumar, 2024 Joint International Conference on Digital Arts, Media and Technology with ECTI Northern Section Conference on Electrical, Electronics, Computer and Telecommunications Engineering (ECTI DAMT & NCON), Chiang-mai, Thailand, Jan-2024

1. Name of the Department:

Computer Science and Engineering





The Department at a glance
Year of Establishment: 1987
Academic Programmes Offered: • Bachelor of Technology (B.Tech) • Master of Technology (M.Tech) • Doctor of Philosophy (Ph.D.)
Total Faculty Strength: • Professor: 1 • Associate Professor: 6 • Assistant Professor: 19
Total Student Strength: • B.Tech: 734 • M.Tech: 80 • Ph.D.: 122
New Students Joined in 2023-2024: • B.Tech: 175 • M.Tech: 51 • Ph.D.: 12

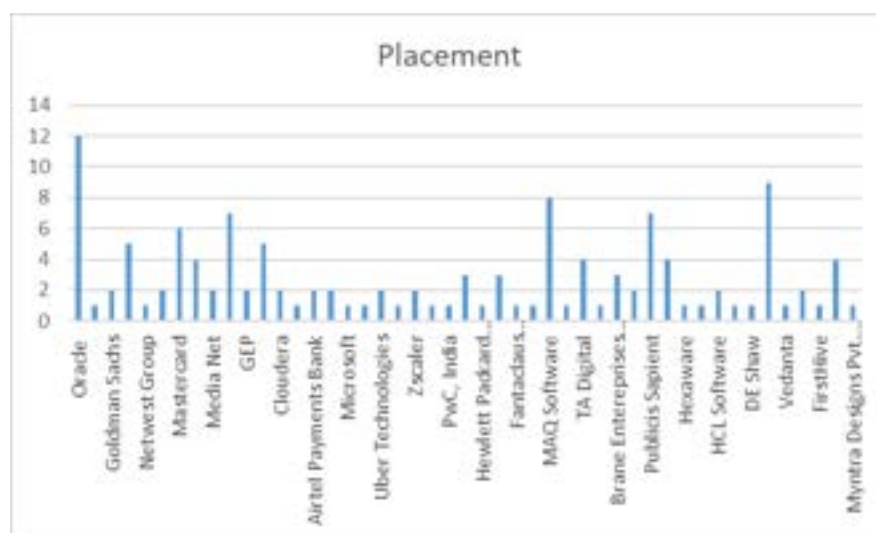


Fig: Placement statistics of students in the Computer Science and Engineering Department during 2023-2024

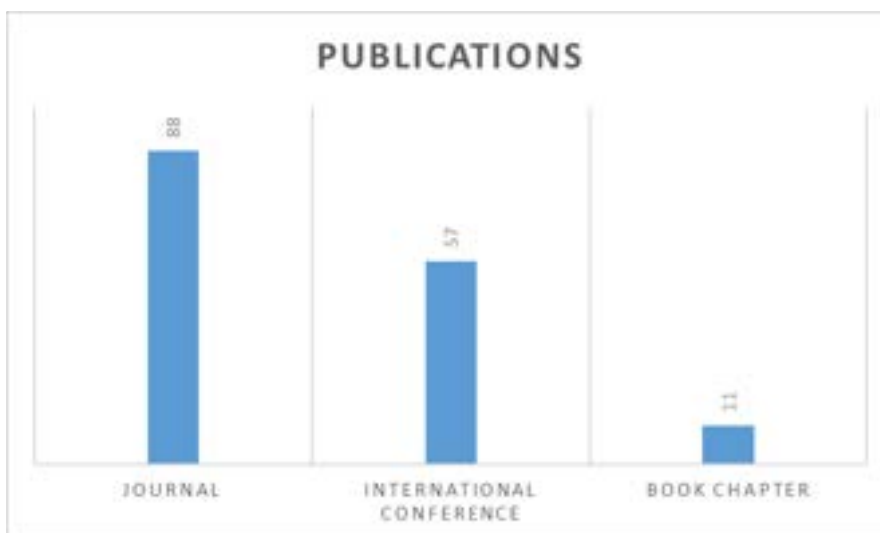


Fig: Publication details Department of Computer Science and Engineering during 2023-2024

1.1 Academic Staff:

HEAD of the Department: Dr. Pinki Roy, Associate Professor

Name of Faculty members:

Professor	Associate Professor	Assistant Professor
Prof. Biswajit Purkayastha	Dr. Pinki Roy	Dr. Arup Bhattacharjee
	Dr. Samir Kumar Borgohain	Mr. Prabhakar Sharma Neog
	Dr. Saroj Kr Biswas	Mr Biswanath Dey
	Dr. Ujwala Baruah	Dr. Pantha Kanti Nath
	Dr. Suganya Devi K	Dr. Dalton Meitei Thounaojam
	Dr. Partha Pakray	Dr. Badal Soni
		Dr. Ripon Patgiri
		Mr. Umakanta Majhi
		Dr. Shyamosree Pal
		Dr. Laiphrakpam Dolendro Singh
		Dr. Malaya Dutta Borah
		Dr. Anish Kumar Saha
		Dr. Thoudam Doren Singh
		Dr. Anupam Biswas
		Dr. Parikshit Saikia
		Dr. Ramanujam E
		Dr. Chukhu Chunka
		Dr. Debbrota Paul Chowdhury
		Dr. Aparajita Dutta

Visiting Professor (If any):



1.2 Distinction Achieved

a) By Student:

- Best All Round Graduate of this Institute: Md. Arshad Ahmed Registration No. 1912009

b) By Faculty Member:

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) Conducted by Faculty Member

Sl. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	All faculty members	ICICSA 2023 conference, September 22-23, 2023	NIT Silchar	2 days
2	Dr. Malaya Dutta Borah as Organizing Chair & Finance Chair	2023 IEEE Silchar Subsection Conference (IEEE SILCON 2023), 3-5 November 2023, NIT Silchar	IEEE	3 days
3	Dr. Malaya Dutta Borah @ Dr. Suganya Devi K as Coordinator	4th Bootcamp on Drone Skill Development & Entrepreneurship Training Program, 12th -16th, February 2024, In association with Jet Aerospace Aviation Research Center, Supported by IHFC (Technology Innovation Hub of IIT Delhi, Setup by DST	DST	5 days
4	Dr. Malaya Dutta Borah & Dr. Suganya Devi K as Coordinator	3rd Bootcamp on Drone Skill Development & Entrepreneurship Training Program 05th -09th, February 2024, In association with Jet Aerospace Aviation Research Center, Supported by IHFC (Technology Innovation Hub of IIT Delhi, Setup by DST		
5	Dr. Ramanujam E & Dr. Suganya Devi K	DST SERB sponsored High end (Karyashala) workshop on "Explainable AI : Theoretical Insights and Engineering Applications", July 3 - 9, 2023	DST - SERB	7 days
6	Dr. Saroj Kr Biswas Dr. Dalton Meitei T	Introduction to Artificial Intelligence and its Applications	NIT Silchar	1 day



7	Dr. Badal Soni	DST-SERB Sponsored One Week High-End Workshop (Karyashala) on “Hands-on Training on Computational Intelligence for Health Informatics and Wearable Device Data Analysis” during 24th-30th July 2023 (Funded amount 5.0 lakh).	NIT Silchar	7 Days
8	Dr. Badal Soni	Training and Skill Internship (VRITIKA) on Image Tampering Detection For Forensics Applications, funded by the Department of Science & Technology, Science and Engineering Research Board (DST-SERB) under Accelerate Vigyan Scheme, during 25th July -3rd September 2023	NIT Silchar	40 Days
9	Dr. Badal Soni	Co-ordinator , One Week Bootcamp on “Drone Skill Development & Entrepreneurship Training Program” funded by MeitY, Govt. of India from the 3rd October 2023 to 7th October 2023.	NIT Silchar	5 Days
10	Dr. Badal Soni	Co-ordinator, One Week Bootcamp on “Drone Skill Development & Entrepreneurship Training Program” funded by MeitY, Govt. of India from the 10th October 2023 to 14th October 2023.	NIT Silchar	5 Days
11	Dr. Badal Soni	Convenor , One Week Bootcamp on “Drone Skill Development & Entrepreneurship Training Program” funded by MeitY, Govt. of India, from the 5th February 2024 to 9th February 2024.	NIT Silchar	5 Days
12	Dr. Badal Soni	Convenor , One Week Bootcamp on “Drone Skill Development & Entrepreneurship Training Program” funded by MeitY, Govt. of India from the 10th February 2024 to 14th February 2024.	NIT Silchar	5 Days



b) Participated by Faculty Member

Sl. No.	Name of Faculty	Details of the Program	Organizing Institute
1	Dr.Pinki Roy	Topic of presentation“Achieving Highly efficient breast Ultrasound tumor classification with deep convolutional neural networks”As Keynote Speaker	“9th Global Insight Conference on Breast Cancer” held during September 04-05,2023 Rome Italy
2	Dr. Parikshit Saikia	Participated as a Invited speaker at National Workshop on Next Generation (5G/6G) Communication Networks (NWNGCN 2023). Title: Application of Steiner tree problem in 5G networks	NIT Mizoram October 9-13, 2023
3	Dr Anish Kumar Saha	Invited Speaker, “Short Term Course on “Information and Communication Technology”, 5th to 11th September 2023	HRDC Cell, Mizoram University.
4	Dr Anish Kumar Saha	Invited Speaker, “Role of ICT for successful implementation of NEP-2020”, 2-9 Jan 2024.	Govt. Degree College, Teliamura, Tripura.
5	Dr. Malaya Dutta Borah	Expert Talk on ” Cyber Security” at “Security Awareness Week 2023 “, 14 December 2023, organised by ONGC, Srikona, Silchar.	ONGC, Srikona, Silchar
6	Dr. Malaya Dutta Borah	Expert Talk on “Cyber hygiene and Security” as a part of Vigilance Awareness Week 2023, 31st October, 2023, Organised by ONGC,Srikona, Silchar.	ONGC, Srikona, Silchar
7	Dr. Malaya Dutta Borah	Expert Talk on “Cyber Security & Prevention of Cyber Frauds”, TRAI Consumer Outreach Programme, 1st November’ 2023, Venue: – Hotel Borail View Regency, , Cachar, Assam – 788001, organised by Telecom Regulatory Authority Of India, Regional Office, Kolkata	Telecom Regulatory Authority Of India, Regional Office, Kolkata
8	Dr. Ujwala Baruah	Expert Talk on “Natural Language Processing and its Challenges”,August 27, 2024,One-Week online Professional Development Program on	Vardhaman College of Engineering, Department of Computer Science and Engineering (Data Science)



		"NLP Unleashed: Cutting-Edge Methods and Applications",	
9	Dr Saroj Kr Biswas	Expert Talk on Backpropagation Neural Network: A Feed Forward Network Hyderabad. (01/05/2023: 1 session)	Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology,
10.	Dr Saroj Kr Biswas	Expert Talk on Perspective of Data Modelling in Data Science using ML in a Five-Day Online Faculty Development Program (FDP) on Research Scopes in Data Science & It's Applications at (02/06/2023: 1 session)	VIT-AP University, Andhra Pradesh.
11.	Dr Saroj Kr Biswas	Expert Talk on Hands-on Session on Data Science using Python in a Five-Day Online Faculty Development Program (FDP) on Research Scopes in Data Science & It's Applications (02/06/2023: 1 session)	VIT-AP University, Andhra Pradesh.
12	Dr Saroj Kr Biswas	Expert Talk on An Explainable Machine Learning Technique: Decision Tree and its Application in SERB-Karyashala-High end workshop on "Explainable AI(XAI): Theoretical Insights and Engineering Applications (03/07/2023: 2 sessions)	NIT Silchar
13	Dr Saroj Kr Biswas	Expert Talk on Deep Learning: CNN architectures for Image Processing in SERB-Karyashala-High end workshop on "Hands-on Training on Computational Intelligence for Health Informatics and Wearable Device Data Analysis" (24/07/2023)	NIT Silchar
14	Dr Saroj Kr Biswas	Expert Talk on Hands-on Session on ML/DL for Image Classification using Python in SERB-Karyashala-High end workshop on "Hands-on Training on Computational Intelligence for Health Informatics and Wearable Device Data Analysis" (24/07/2023)	NIT Silchar
15	Dr Saroj Kr Biswas	Keynote Speech on Machine Learning Analytics: Impact of Data Normalization in the Design of ML Model in the International Conference on Computer Science, Industrial Electronics (ICCSIE)(05/08/2023)	Bali, Indonesia



16	Dr Saroj Kr Biswas	Expert Talk on Foundation of CNN architectures for Image Processing in AICTE-ISTE approved one week STTP on “Generative AI” organized by the Department of Information Technology (1/11/2023)	Sipna College of Engineering & Technology, Amravati
17	Dr Saroj Kr Biswas	Expert Talk on Hands-on Session on ML/DL for Image Classification using Python in AICTE-ISTE approved one week STTP on “Generative AI” organized by the Department of Information Technology at (1/11/2023)	Sipna College of Engineering & Technology, Amravati
18	Dr Saroj Kr Biswas	Keynote Speech on Machine Learning Analytics: Impact of Data Normalization in the Design of ML Model in International Seminar on Computational Technologies, Department of Computer Sc. & Application, (25/11/2023)	St. Joseph’s College, Darjeeling
19	Dr Saroj Kr Biswas	Expert Talk on The Presence and Impact of Computer Technology on Society in 21st Century (8/12/2023)	KV AFS Kumbhirgram, Cachar, Assam
20	Dr Saroj Kr Biswas	Expert Talk on Foundation of CNN architectures for Image Processing in One Week Online Short-Term Training Program on Generative Artificial Intelligence and Natural Language Processing organized by the Department of Artificial Intelligence (04/01/2024)	G H Rasoni College of Engineering Nagpur
21	Dr Saroj Kr Biswas	Expert Talk on Generative Adversarial Network (GAN) in One Week Online Short-Term Training Program on Generative Artificial Intelligence and Natural Language Processing organized by the Department of Artificial Intelligence (04/01/2024)	G H Rasoni College of Engineering Nagpur
22	Dr Saroj Kr Biswas	Expert Talk on The Presence and Impact of Computer Technology on Society in 21st Century (15/01/2024)	Solo Art Exhibition at Lakhipur, Cachar, Assam
23	Dr Saroj Kr Biswas	Expert Talk on Foundation of Machine Learning to Design a Machine Learning Model in UGC Malaviya Mission Teacher Training Centre on Mathematics &	University of North Bengal, West Bengal



		Computer Science from 09.01.2024 to 24.01.2024 (16/01/2024)	
24	Dr Saroj Kr Biswas	Expert Talk on Naive Bayes Classifier for Discrete and Continuous Attributes in UGC Malaviya Mission Teacher Training Centre on Mathematics & Computer Science from 09.01.2024 to 24.01.2024 (16/01/2024)	University of North Bengal, West Bengal
25	Dr Saroj Kr Biswas	Expert Talk on Designing a Machine Learning Model with Data Analytics in a seminar on Applications of Machine Learning at (20/03/2024)	Sreenidhi Institute of Science and Technology(SNIST), Hyderabad
26	Dr. Dalton Meitei Thounaojam	One Week National Level PDP on “Exploring the Realm of Generative AI for Text and Image Processing” from 19th to 24th Feb 2024.	Department of CSE - AIML & IoT, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, India.
27	Dr. Suganya Devi K	Delivered a invited talk on “Recent Trends and Challenges in Medical Image Analysis” from March 18 – 22 2024	CMR Institute of Technology, Bengaluru, India

1.4 Research Development

a) Ph.D. Programme (Specializations):

1. Artificial Intelligence and Machine Learning
2. Speech and Music Recognition
3. Network Security
4. Computer Networking
5. Big Data and Cloud computing
6. Image and Video processing
7. Natural Language processing
8. Cryptography
9. Block chain
10. Quantum computing
11. Optimization techniques
12. Internet of Things
13. Health Informatics
14. Graph Algorithms and Distributed Computing
15. 5G/6G Network and Distributed Artificial Intelligence
16. Biometric Security
17. Bioinformatics
18. Computational Biology
19. Medical Image Processing


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

Faculty Name	Completed	Submitted	Ongoing
Dr. Pinki Roy	5	0	3 full time 3 part time
Dr. Thoudam Doren Singh	4	0	2
Dr. Pantha K. Nath			01 Full-time 02 Part-time
Dr Anish Kumar Saha	0	0	03 Full time 02 Parttime
Dr. Anupam Biswas	02	02 (01 submitted, 01 synopsis submitted)	01 Full time 04 Parttime
Dr. Malaya Dutta Borah	02 (from NIT Silchar) 01 (from Delhi Technological University)	01 Synopsis	02 Full Time 03 Part Time
Dr. Suganya Devi K	03 (from NIT Silchar) 01 (from Anna University)	01 (Thesis Submitted)	01 Full Time 04 Part Time
Dr. Ramanujam E	0	0	03 Full Time 04 Part Time
Dr. Samir Kr Borgohain	4		02 Full Time 03 Part Time
Dr. Parikshit Saikia			01 Full Time
Dr Saroj Kr Biswas	01	02	04 full time 05 part time
Prof. Biswajit Purkayastha			
Dr. L. Dolendro Singh	00	00	02 (Full time) 03 (Part time)
Dr. Badal Soni	02	00	03 (Full time) 03(Part-time)
Dr. Partha Pakray	2	0	03 (full time) 03 (part time)
Dr. Ujwala Baruah	2	1	01(Full time) 02(Part-time)



Dr. Debbrota Paul Chowdhury	0	0	
Dr. Aparajita Dutta	0	0	1
Dr. Dalton Meitei Thounaojam	0	1	01 (Full time) 03 (Part time)

c) Research Lab/ Workshop:

Sl. No.	Name of Lab/Workshop	Purpose/Linkage to an existing/new programme
1	Healthcare computing lab	For carrying out experiments related to healthcare like cancer diagnosis, diabetes and other diseases using high end computing techniques .

No	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1	Leveraging Machine Learning and Soft Computing Techniques to Investigate Raag Formation in Indian Classical Music	Dr. Anupam Biswas	SERB	24.68	3 Years
2	Optimal Solution Evaluation	Dr. Anupam Biswas	SERB	23.36	3 Years
3	Quantum Machine Learning for Social Network Analysis Applications	Dr. Anupam Biswas	MEITY	30K USD	2 Years
4	Graph theory & its heuristic algorithm in quantum annealing and computing	Dr. Anish Kumar Saha	MEITY	29K USD	2 years
5	Deep Learning-based Extraction of Genetic Biomarkers for Early Prediction of Alzheimer's Disease	Dr. Aparajita Dutta	CSIR	13	2 years
6	Ultrasound Image based Breast Cancer Prediction and detection using Deep Learning Computational Techniques	Dr. Pinki Roy(PI)	SERB CRG(Core Research Grant)	29 lakhs	3 Years



7	Intelligent Speech-to-Speech Translation with Lip-Syncing for Educational Domain	Dr. Partha Pakray	SERB Core Research Grant	23 lakhs	3 Years
8	Quantum Machine Learning for Natural Language Processing Applications	Dr. Partha Pakray	MeitY Quantum Computing Applications Lab (QCAL)	28500 USD	3 years
9	Capacity Building for human resource development in Unmanned Aircraft System (Drone and Related Technology)	Dr. Badal Soni (Co-Cl)	MeITY, IIITDM Kurnool and C-DAC Hyderabad	150 Lakhs	5 Years
10	Design and Development of Intelligent Cyber-Physical System for Prediction, Early Detection and Remote Monitoring of Alzheimer's Disease in Real-Time using Bio-Multifunctional Smart Wearable Sensors	Dr. Badal Soni (Co-PI)	DST-SERB (CRG)	77 Lakhs	3 Years

e) Research Paper Reviewed

Sl. No	Faculty Name	Journal Name	No. of Paper	Year
1	Dr Anish Kumar Saha	Wireless personal communications	1	2023
		SN computer science	1	2024
2	Dr. Saroj Kr Biswas	Network: Computation in Neural Systems	1	2023
		Engineering Applications of Artificial Intelligence	1	2024
3	Dr. Suganya Devi K	Cluster Computing	1	2024
		Journal of Big Data	1	
		Signal, Image and Video Processing	1	
		Springer Nature	1	
4.	Dr. Badal Soni	IEEE Sensor Journal	2	2023
		IEEE Sensor Journal	2	2023
		IEEE Transactions on Consumer Electronics	1	2024
		IEEE Access	1	2024

f) Chairing of the Technical Section

Sl. No.	Faculty Name	Details
1	Dr. Anupam Biswas	Session chair in 8th edition of the 2024 IEEE Students Conference on Engineering and Systems (SCES-2024)
2	Dr. Parikshit Saikia	International Conference on Intelligent Computing Systems and Applications (ICICSA 2023)



		IEEE Silchar Subsection Conference (SILCON 2023)
		International Conference on Soft Computing and Signal Processing (ICSCSP 2023)
3	Dr Anish Kumar Saha	International Conference on Intelligent Computing Systems and Applications (ICICSA-2023), http://icicsa.nits.ac.in/ , Sept 22-23, 2023.
4	Dr. Malaya Dutta Borah	2023 IEEE Silchar Subsection Conference (IEEE SILCON 2023), 3-5 November 2023, NIT Silchar
		International Conference on Intelligent Computing Systems and Applications (ICICSA-2023), http://icicsa.nits.ac.in/ , Sept 22-23, 2023.
5	Dr. Laiphrakpam Dolendro Singh	International Conference on Intelligent Computing Systems and Applications (ICICSA 2023)
6	Dr. Saroj Kr Biswas	27th May, 2023, ICICCT-2023 JIMS New Delhi
7		16th December, Emerging Electronics & Automation (E2A) – 2023, NIT Silchar
8	Dr. Suganya Devi K	International Conference of Signal Processing and Computer Vision-2023 (SIPCOV-2023), NIT Silchar. Date: 30-31 March 2023
9	Dr. Badal Soni	Session Chair, 8th Students' Conference on Engineering and Systems (SCES2024) Organized by Motilal Nehru National Institute of Technology Allahabad during June 21- 23, 2024. Session Chair, 3rd International Conference on Emerging Electronics and Automation (E2A) 2023. Organized by Dept. of E&I, NIT Silchar during December 15-17, 2023. Session Chair, 2nd International Conference on Intelligent Computing Systems and Applications (ICICSA-2023). Organized by National Institute of Technology Silchar September 22-23, 2023.

1.5 PUBLICATION

a) Journal(s):

Dr. Malaya Dutta Borah:

1. Z. Hussain and M. D. Borah, (2024) "A Computational Model to Analyze the Impact of Birth Weight-Nutritional Status Pair on Disease Development and Disease Recovery". Health Information Science and Systems, Springer, 12:10, doi: <https://doi.org/10.1007/s13755-024-00272-z>, [SCIE, IF: 6.0]
2. Zakir Hussain, Malaya Dutta Borah & Rezaul Karim Ahmed, "Computational methods for studying relationship between nutritional status and respiratory viral diseases: a systematic review". Artificial Intelligence Review, 57, 3 (2024). <https://doi.org/10.1007/s10462-023-10627-9> [SCI, Impact Factor: 12.0].



3. Deepali Jain, Malaya Dutta Borah, Anupam Biswas, "Summarization of Lengthy Legal Documents via Abstractive Dataset Building: An Extract-then-Assign Approach", Expert Systems With Applications, Elsevier, Available online 14 September 2023, Version of Record 20 September 2023, [Vol 237, Part B](https://doi.org/10.1016/j.eswa.2023.121571), 1 March 2024, 121571, <https://doi.org/10.1016/j.eswa.2023.121571> [SCIE, Impact Factor: 8.5].
4. Pratima Sharma, Rajni Jindal, Malaya Dutta Borah, "Blockchain-based distributed application for multimedia system using Hyperledger Fabric", Multimed Tools Appl, 2023, <https://doi.org/10.1007/s11042-023-15690-6> [SCIE, Impact Factor: 2.577].

Dr. Anupam Biswas:

1. Ravi Kishore Devarapalli, Soumita Das and Anupam Biswas, "Multiple rumor source identification in social networks leveraging community and monitor information", in Information Fusion, Elsevier, vol. 111, pp. 1-12, 2024. (SCIE, IF 14.7)
2. Ravi Kishore Devarapalli, Soumita Das and Anupam Biswas, "Locating multiple rumor sources in social networks using partial information of monitors", in Computer Communications, Elsevier, vol. –, pp. –, 2024. (SCIE, IF 4.5)
3. Soumita Das and Anupam Biswas, "Leveraging cascading information for community detection in social networks", in Information Sciences, Elsevier, vol. 674, pp. 123, 2024. (SCIE, IF 8.1)
4. Ravi Kishore Devarapalli and Anupam Biswas, "Estimating rumor source in social networks using incomplete observer information", in Expert Systems with Applications (ESWA), Elsevier, vol. 249, Part A, 1 September 2024, Article ID 123499, ISSN: 0957-4174. (SCIE, IF 8.5)
5. Abhilash Chakraborty, Anupam Biswas, and Ajoy Kumar Khan, "SRIJAN: Secure Randomized Internally Joined Adjustable Network for one-way hashing", in Journal of Information Security and Applications (JISA), Elsevier, vol. 81, March 2024, 103717, ISSN: 2214-2126. (SCIE, IF 5.6)
6. Deepali Jain, Malaya Dutta Borah, and Anupam Biswas, "Summarization of Lengthy Legal Documents via Abstractive Dataset Building: An Extract-then-Assign Approach", in Expert Systems with Applications (ESWA), Elsevier, vol. 237, Part B, 2024, ISSN: 0957-4174, Article ID 121571, <https://doi.org/10.1016/j.eswa.2023.121571>. (SCIE, IF 8.5)
7. Soumita Das and Anupam Biswas, "TSInc: Tie Strength based Incremental Community detection using Information Cascades", in International Journal of Information Technology, Springer, 2024, ISSN 2511-2112. (Scopus, Accepted)
8. Saifuddin Ahmed and Anupam Biswas, "A Cross Entropy and Whale Optimization Algorithm based Image Segmentation for Aerial Images", in International Journal of Information Technology, Springer, 2024, ISSN 2511-2112. (Scopus, Accepted)
9. Saifuddin Ahmed and Anupam Biswas, "An Experimentation of objective functions used for Multilevel Thresholding based Image Segmentation using Particle Swarm Optimization", in International Journal of Information Technology, Springer, 2023, ISSN 2511-2112. (Scopus, Accepted)
10. Deepali Jain, Malaya Dutta Borah, and Anupam Biswas, "Bayesian Optimization based Score Fusion of Linguistic Approaches for Improving Legal Document Summarization", in

- Knowledge-Based Systems (KBS), Elsevier, vol. 264, 2023, ISSN: 1872-7409. (SCIE, IF 8.139)
11. Yeshwant Singh and Anupam Biswas, "Lightweight convolutional neural network architecture design for music genre classification using evolutionary stochastic hyperparameter selection", in Expert Systems, Wiley, vol. , Article id 100462, 2023, ISSN: 1468-0394. <https://doi.org/10.1111/exsy.13241>. (SCIE, IF 2.812)
 12. Ripon Patgiri, Anupam Biswas, and Sabuzima Nayak, "deepBF: Malicious URL detection using learned Bloom Filter and evolutionary deep learning", in Computer Communications, Elsevier, vol. 200, 2023, ISSN: 1873-703X, <https://doi.org/10.1016/j.comcom.2022.12.027>. (SCIE, IF 5.047)
 13. Deepali Jain, Malaya Dutta Borah, and Anupam Biswas, "A sentence is known by the company it keeps: Improving Legal Document Summarization using Deep Clustering", in Artificial Intelligence and Law (ARTI), Springer, vol. , 2023, ISSN: 1572-8382. (SCIE, IF 3.747)
 14. Yeshwant Singh and Anupam Biswas, "Swaragram: A Software Toolbox for Musical Feature of Indian Music", in Software Impacts, Elsevier, vol. 15, Article id 100462, 2023, ISSN: 2665-9638. <https://doi.org/10.1016/j.simpa.2022.100462>. (Scopus)

Dr. Samir Kumar Borgohain

1. Priyanka Singh, Samir Kumar Borgohain, Achintya Kumar Sarkar, Jayendra Kumar, Lakhan Dev Sharma, and Said El Kafhali. 2023. Feed-Forward Deep Neural Network (FFDNN)-Based Deep Features for Static Malware Detection. Int. J. Intell. Syst. 2023 (2023), <https://doi.org/10.1155/2023/9544481>
2. Eduri Raja, Badal Soni, Samir Kumar Borgohain, Fake news detection in Dravidian languages using transfer learning with adaptive finetuning, Engineering Applications of Artificial Intelligence, Volume 126, Part A, 2023, 106877, ISSN 0952-1976, <https://doi.org/10.1016/j.engappai.2023.106877>
3. Eduri Raja, Badal Soni, Candy Lalrempuii, and Samir Kumar Borgohain. 2024. An adaptive cyclical learning rate based hybrid model for Dravidian fake news detection. Expert Syst. Appl. 241, C (May 2024), <https://doi.org/10.1016/j.eswa.2023.122768>
4. Eduri Raja, Badal Soni, and Samir Kumar Borgohain. 2024. Fake news detection in Dravidian languages using multiscale residual CNN_BiLSTM hybrid model. Expert Syst. Appl. 250, C (Sep 2024), <https://doi.org/10.1016/j.eswa.2024.123967>
5. Eduri Raja, Badal Soni, Samir Kumar Borgohain, Harnessing heterogeneity: A multi-embedding ensemble approach for detecting fake news in Dravidian languages, Computers and Electrical Engineering, Volume 120, Part A, 2024, 109661, ISSN 0045-7906, <https://doi.org/10.1016/j.compeleceng.2024.109661>

Dr. Anish Kumar Saha

1. Arnab Roy, Joseph Pachuau, G Krishna, Anish Kumar Saha "Applying Grover's algorithm to implement various numerical and comparison operations", Quantum Stud.: Math. Found(2024), IF-0.8.



Dr Saroj Kr Biswas

1. Atiya Khan, Saroj Kr. Biswas, Chukhu Chunka, Akhil Kumar Das: 'A Machine Learning Model for Obstructive Sleep Apnea Detection Using Ensemble Learning and Single-Lead EEG Signal Data', IEEE Sensors Journal, DOI: [10.1109/JSEN.2024.3397395](https://doi.org/10.1109/JSEN.2024.3397395), Accepted, (SCI journal, IF: 4.3)
2. Soumen Das, Saroj Kr. Biswas, Biswajit Purkayastha: 'Occlusion Robust Sign Language Recognition System for Indian Sign Language Using CNN and Pose Features', Multimedia Tools and Applications, Springer, doi.org/10.1007/s11042-024-19068-0, Accepted, (SCI journal, IF: 3.6)
3. Rahul Karmakar, Saranagata Kundu, Saroj Kr. Biswas, Deeksha Tripathi: 'Efficacy of Ensemble Learning Method over Individual Classifier for Rainfall Forecasting in Eastern India', Journal of The Institution of Engineers (India): Series B, Springer, doi.org/10.1007/s40031-024-01011-4, Accepted (SCOPUS indexed)
4. Barsha Abhisheka, Saroj Kumar Biswas, Biswajit Purkayastha: 'HBMD-Net: Feature Fusion based Breast Cancer Classification with Class Imbalance Resolution', Journal of Imaging Informatics in Medicine, Springer, DOI: [10.1007/s10278-024-01046-5](https://doi.org/10.1007/s10278-024-01046-5), Accepted, (SCI journal, IF: 5.4)
5. Soumen Das, Saroj Kr. Biswas, Biswajit Purkayastha: 'An Expert System for Indian Sign Language Recognition using Spatial Attention based Feature and Temporal Feature', Transactions on Asian and Low-Resource Language Information Processing, ACM Transaction, vol. 23, no. 3, pp. 37:1-37:23 (SCI journal, IF: 1.471)
6. Barsha Abhisheka, Saroj Kumar Biswas, Biswajit Purkayastha: 'HBNet: An integrated approach for Resolving Class Imbalance and Global Local Feature Fusion for Accurate Breast Cancer Classification', Neural Computing and Applications, vol. 36 no. 15, pp. 1-18, Springer, (SCI journal, IF: 6.0)
7. Saroj Kr. Biswas, Arijit Bhattacharya, Abhinaba Dattachaudhuri, Manomita Chakraborty: 'Comprehensible and Transparent Rule Extraction using Neural Network', Multimedia Tools and Applications, Springer, DOI: [10.1007/s11042-024-18254-4](https://doi.org/10.1007/s11042-024-18254-4), Accepted, (SCI journal, IF: 3.6)
8. Yaganteeswarudu Akkem, Saroj Kr. Biswas, Aruna Varanasi: 'A Comprehensive Review of Synthetic Data Generation in Smart Farming by Using Variational Autoencoder and Generative Adversarial Network', Engineering Applications of Artificial Intelligence, vol. 131, 2024, 107881, pp. 1-18, Elsevier, Accepted, (SCI journal, IF: 8.0)
9. Yaganteeswarudu Akkem, Saroj Kr. Biswas, Aruna Varanasi: 'Streamlit Application for Advanced Ensemble Learning Methods in Crop Recommendation Systems – A Review and implementation', Indian Journal of science & technology, Accepted
10. Akhil Kumar Das, Saroj Kr. Biswas, Ardhendu Mandal, Arijit Bhattacharya: 'Machine Learning Based Intelligent System for Breast Cancer Prediction (MLISBCP),' Expert Systems With Applications, vol. 242, 2024, 122673, pp. 1-13, Elsevier, (SCI journal, IF: 8.5)
11. Barsha Abhisheka, Saroj Kumar Biswas, Biswajit Purkayastha: 'Recent Trend in Medical Imaging Modalities and their Applications in Disease Diagnosis: A Review', Multimedia Tools and Applications, Springer, vol. 83, no. 2, pp. 43035–43070, (2024) (SCI journal, IF: 3.6)



12. Barsha Abhisheka, Saroj Kumar Biswas, Biswajit Purkayastha: 'A Comprehensive Review on Breast Cancer Detection, Classification and Segmentation Using Deep Learning' Archives of Computational Methods in Engineering, vol.30, no. 17, pp. 5023-5052, Springer (SCI journal, IF: 8.967)
13. Tanmoy Kanti Halder, Kanishka Sarkar, Ardhendu Mandal, Saroj Kr Biswas, 'A robust head MRI/CT background removing approach using dynamic morphological operations', Proceedings of the Indian National Science Academy, DOI: [10.1007/s43538-023-00175-9](https://doi.org/10.1007/s43538-023-00175-9), vol. 89, pp. 673–688, (2023) Springer, (SCOPUS indexed)
14. Dolly Das, Saroj Kr. Biswas, Sivaji Bandyopadhyay, 'Mixed Attention and Regularized COVID-19 Network: An approach to detection of COVID-19 with Chest X-Ray images', International Journal of Imaging Systems and Technology, vol. 33, no. 4, pp. 1194-1222, Wiley (SCI journal, IF: 2.177)

Dr. Laiphrakpam Dolendro Singh

1. Zeba Shamsi and Laiphrakpam Dolendro Singh. Securing encrypted image information in audio data. Multimed Tools Appl (2023). <https://doi.org/10.1007/s11042-023-14735-0>
2. Lilapati Waikhom, Ripon Patgiri, and Laiphrakpam Dolendro Singh, "Dynamic Temporal Position Observant Graph Neural Network for Traffic Forecasting", Applied Intelligence, Volume 53, Issue 20, Oct 2023, pp 23166–23178, <https://doi.org/10.1007/s10489-023-04737-8>
3. Laiphrakpam Dolendro Singh, Rohit Thingbaijama, Ripon Patgiri and Khoirom Motilal Singh, "Cryptanalysis of cross-coupled chaotic maps multi-image encryption scheme", Journal of Information Security and Applications. Volume 80, 2024, 103694, ISSN 2214-2126, <https://doi.org/10.1016/j.jisa.2023.103694>.
4. Rohit Pratap Singh and Laiphrakpam Dolendro Singh, "DyHand: Dynamic Hand Gesture Recognition using BiLSTM and Soft Attention methods", The Visual Computer, doi: <https://doi.org/10.1007/s00371-024-03307-4>

Dr. Pinki Roy

1. Hussain, I. and Roy, P., 2023. A hybrid adaptive neuro-fuzzy approach for automatic spoken digit recognition. International Journal of Speech Technology, 26(4), pp.825-832.
2. Das, S.K., Roy, P., Singh, P., Diwakar, M., Singh, V., Maurya, A., Kumar, S., Kadry, S. and Kim, J., 2023. Diabetic foot ulcer identification: a review. Diagnostics, 13(12), p.1998.

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5. Santanu Pal, Partha Pakray, Sahinur Rahman Laskar, Lenin Laitonjam, Vanlalmuansangi Khenglawt, Sunita Warjri, Pankaj Kundan Dadure, Sandeep Kumar Dash, "Findings of the WMT 2023 Shared Task on Low-Resource Indic Language Translation", In: Proceedings of the Eighth Conference on Machine Translation (WMT), pages 682–694. [2023]
6. Shayak Chakraborty, Partha Pakray, "Abstractive Summarization Evaluation for Prompt Engineering", In: Badioze Zaman, H., et al. Advances in Visual Informatics. IVIC 2023. Lecture Notes in Computer Science, vol 14322. Springer, Singapore. [2023]
7. Prottay Kumar Adhikary, Bandaru Sugandhi, Subhojit Ghimire, Santanu Pal and Partha Pakray, "TRAVID: An End-to-End Video Translation Framework", IJCNLP-AACL Demos 2023, November 1-4, 2023 (Accepted) [2023]
8. Shayak Chakraborty and Partha Pakray, "ATCoPE – Abstractive Text Comparison using Prompt Engineering", PiCET 2023 (Accepted) [2023] [***Best Paper Award ***]
9. Advaita Vetagiri, Prottay Kumar Adhikary, Partha Pakray and Amitava Das, "CNLP-NITS at SemEval-2023 Task 10: Online sexism prediction, PREDHATE!", In the Proceedings of The 17th international Workshop on Semantic Evaluation (SemEval-2023), pages 815–822 July 13-14, 2023, Toronto, Canada, 2023. [2023]
10. Sunita Warjri, Partha Pakray, Arnab Kumar Maji and Saralin Lyngdoh, "Fake news detection using social media data for Khasi language", INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS, ADVANCED COMPUTING AND COMMUNICATION (ISACC-2023), (Accepted) [2023]
11. Nihar Jyoti Basisth, Tushar Sachan, Neha Kumari, Shyambabu Pandey and Partha Pakray, "An HMM-based POS tagger for code mixed Indian social media text", Fifth International Conference on Computational Intelligence in Communications and Business Analytics (CICBA-2023). (Accepted) [2023]
12. Advaita Vetagiri, Prottay Kumar Adhikary, Partha Pakray, Amitava Das, "Leveraging GPT-2 for automated classification of online sexist content", Notebook for the Exist 2023 Lab at CLEF2023 [2023]

Dr. Suganya Devi K

1. Prasenjit Dhar, Mohit Kumar Singh, Tanveer Ahmed, and Suganya Devi K, (2023), "Classification of Poikilocytosis Abnormality using Ensemble Deep Learning Technique", 3rd International Conference on Emerging Electronics and Automation (E2A-2023), National Institute of Technology Silchar, Assam, India, Springer, 15th to 17th December 2023.
2. Himanshi Singh, Suganya Devi K, Shradda Singh Gaur, Ramanuj Bhattacharjee, (2023), "Automated Skin Cancer Detection using Deep Learning with Self-Attention Mechanism", 2nd International Conference on Computational Intelligence and Sustainable Engineering Solution (CISES-2023), Greater Noida, U.P., India, 28th to 30th April 2023. pp. 464-469, IEEE, DOI: [10.1109/CISES58720.2023.10183586](https://doi.org/10.1109/CISES58720.2023.10183586)
3. Ramanuj Bhattacharjee, K. Suganya Devi, Vijayakanth S, (2023), "Detecting Laryngeal Cancer Lesions from Endoscopy Images using Deep Ensemble Model", First International Conference on Signal Processing, Computation, Electronics, Power,



Telecommunication (IConSCEPT 2023), Karaikal, India, 2023, pp. 1-6, IEEE [Indexed: Scopus [Received Best paper Award] [10.1109/IConSCEPT57958.2023.10170113](https://doi.org/10.1109/IConSCEPT57958.2023.10170113)

4. Sekar K., Suganya Devi K., J.Suganthi, Dheepa T., (2023), "Jellyfish Search Algorithm based Optimal Routing Protocol for Energy Efficient Data Aggregation in Wireless Sensor Networks," 2023 International Conference on Intelligent Systems, Advanced Computing and Communication (ISACC), Silchar, India, 2023, pp. 1-6, IEEE [10.1109/ISACC56298.2023.10084023](https://doi.org/10.1109/ISACC56298.2023.10084023).
5. Prasenjit Dhar, Suganya Devi K., Sekar K., and Srinivasan P., (2023), "Morphology of Red Blood Cells Classification using Deep Learning Approach," "2023 IEEE Third International Conference on Technology, Engineering, Management for Societal impact using Marketing, Entrepreneurship and Talent (TEMSMET)" Vidya Vikas Institute of Engineering & Technology, Mysuru, India, 2023, pp. 1-6, doi: [10.1109/TEMSMET56707.2023.10150054](https://doi.org/10.1109/TEMSMET56707.2023.10150054)

c) National Conference(s):

d) Book/Chapter:

Dr. Suganya Devi K

1. Sekar K., Suganya Devi K., Dheepa T., Srinivasan P., (2023) "Chemosensors/Bioimaging Applications" Book: Schiff Base Metal Complexes: Synthesis and Applications, First Edition (Eds.) Pranjit Barman and Anmol Singh, WILEY-VCH GmbH. <https://www.wiley.com/en-us/9783527350704>

Dr. Malaya Dutta Borah

1. Hussain and M. D. Borah, (2024), Genetic Algorithm in the Optimization of Infectiological Parameter Values under Different Nutritional Status. In the edited book Applications of Nature-inspired Computing and Optimization Techniques, part of [Advances in Computers](#), Elsevier book series, 2024, ISSN 0065-2458, <https://doi.org/10.1016/bs.adcom.2023.12.001> [SCI, IF: 2.655]
2. Deepali Jain, Malaya Dutta Borah and Anupam Biswas, (2024) "Domain Knowledge Enriched Summarization of Legal Judgement Documents via Grey Wolf Optimization", In the edited book Applications of Nature-inspired Computing and Optimization Techniques, part of [Advances in Computers](#), Elsevier book series, 2024, ISSN 0065-2458, <https://doi.org/10.1016/bs.adcom.2023.11.005>. [SCI, IF: 2.655]
3. Manabali Nath, Akangsha Goswami, Smriti Suman, [Ritu Agarwalla](#), Boddu Venkateswarlu, [Malaya Dutta Borah](#), Naresh Babu Muppalaneni, Development of EHR Using Blockchain Technology, : [Revolutionizing Digital Healthcare Through Blockchain Technology Applications](#), IGI Global, ISBN13: 9781668465097, DOI: 10.4018/978-1-6684-6509-7.ch004



Dr. Badal Soni

1. Raja Eduri, Soni Badal, Borgohain Samir Kumar, Lalrempuii Candy, "Dravidian Fake News Detection with Gradient Accumulation based Transformer Model," Published in Proceedings of the 20th International Conference on Natural Language Processing (ICON), 2023, pages 466–471, Organized by NLP Association of India (NLP AI), Goa University, Goa, India.
2. Candy Lalrempuii and Badal Soni, "Investigation of Data Augmentation Techniques for Assamese-English Language Pair Machine Translation", Published in IEEE 18th International Joint Symposium on Artificial Intelligence and Natural Language Processing (iSAI-NLP), Bangkok, Thailand, 2023, pp. 1-6, doi: 10.1109/iSAI-NLP60301.2023.10354679, (Best Paper Award).
3. Rashmi Pathak, Badal Soni, Naresh Babu Muppalaneni, "Role of Blockchain in Health Care: A Comprehensive Study", Accepted in Springer 3rd International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications: ICMISC 2022.
4. Sakshi Singh, Nurul Amin Choudhury and Badal Soni, "Gait Recognition Using Activities of Daily Livings and Ensemble Learning Models", Published in Springer, In: Mishra, A., Gupta, D., Chetty, G. (eds) Advances in IoT and Security with Computational Intelligence. ICAISA 2023. Lecture Notes in Networks and Systems, vol 755. Springer, Singapore. https://doi.org/10.1007/978-981-99-5085-0_20.
5. Rashmi Pathak, Badal Soni, Naresh Babu Muppalaneni, "Multi-Criteria Decision-Making Methods in Healthcare Using Blockchain", Accepted in Springer 5th International Conference on Cybernetics, Cognition and Machine Learning Applications (ICCCMLA 2023), Germany.
6. Eduri Raja, Badal Soni, and Samir Kumar Borgohain, "nlpt malayalm@DravidianLangTech : Fake News Detection in Malayalam using Optimized XLM-RoBERTa Model", Published in Proceedings of the Third Workshop on Speech and Language Technologies for Dravidian Languages, pp.186-191, 2023, (Online).
7. Souvik Chowdhury, and Badal Soni, "Visual Question Answering Optimized Framework using Mixed Precision Training", Published in IEEE International Conference on Artificial Intelligence and Applications (ICAIA) Alliance Technology Conference, During 21-22 April 2023, Bangalore, India.

1.6 CONSULTANCY SERVICES:

1.7 MAJOR EQUIPMENT ACQUIRED:

1.High end workstation under SERB CRG Project scheme by Dr. Pinki Roy

2. Institute Procured 45 computers and it is used by PhD students

1.8 PATENT:

Arnab Kumar Mishra, Pinki Roy, Sujit Kumar Das, "A Multi-Task Learning Based System For Breast Cancer Detection and classification and a Method Thereof" Registration No. 202303302, Date: 30-08-2023, South African Patent



“A Method and System for Classification of RBC Morphology through Intelligent Image Processing”, Suganya Devi K., Prasenjit Dhar, Srinivasan P., G. Arutperumjothi, Ramanuj Bhattacharjee, No. 2023/06721, South Africa, Granted

1.9 VISITS TO ABROAD

Sl.No	Name of the Faculty	Name of the Conference/ Programme	Place	Date
1.	Dr.Pinki Roy	9 th Global Insight Conference on Breast Cancer	Rome, Italy	4 th September 2023- 5 th September 2023
2.	Dr Anish Kumar Saha	IEEE TENCON 2023	Chiangmai, Thailand	31 Oct 2023- 03 Nov 2023
3.	Dr. Laiphrakpam Dolendro Singh	IEEE ICITEE	Chiangmai, Thailand	26-27 October 2023
4.	Dr. Badal Soni	18th International Joint Symposium on Artificial Intelligence and Natural Language Processing (iSAI-NLP-AIoT 2023)	Bangkok, Thailand	November 27-29, 2023

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

Sl. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project
1.	Yash Manohar	Dr. Parikshit Saikia	Vertex Cover in CONGESTED CLIQUE model
2.	Bhaben Khakhlari (2122210)	Dr. Anish Kumar Saha	Enhancing the Performance of Mean Photon Number of Gaussian Boson Sampling
3.	Vishwajeet Kumar (2222101)	Dr. Laiphrakpam Dolendro Singh	Multi-Generative Adversarial Network Approach for Frontal Facial Image Synthesis
4.	Poushali Chakraborty (2222208)	Mr. Umakanta Majhi	Explainable Feature Extraction and Pattern Recognition for Handwritten Characters based on Meta-heuristics
5.	22-22-106	Dr. Saroj Kr Biswas	Polycystic Ovary Syndrome using Deep Neural Network
6.	Jayant Nirmalkar (2222215)	Dr Pantha Kanti Nath	Continuous Sign Language Recognition



7.	Sudhir Panda (21-2-2-105)	Dr. Dalton Meitei Thounaojam	Unpaired Image to Image Translation using modified Gnerative Adversarial Network
8.	Mr. Ramanuj Battacharjee (2122205)	Dr. Suganya Devi K	Detection and classification of laryngeal cancer using CNN
9.	Sakshi Singh (21- 22-219)	Dr. Badal Soni	Gait Recognition in an Uncontrolled Environment

1.11 Ph.D. Thesis

Sl. No	Name of the Scholar	Name of the Supervisor	Title of the Thesis
1.	Dr. Yeshwant Singh	Dr. Anupam Biswas	Data-driven Computational Approaches for Indian Classical Music and its Forms
2.	Soumita Das	Dr. Anupam Biswas	Information Diffusion Driven Community Detection Techniques for Social Networks
3.	Dr. Deepali Jain	Dr. Malaya Dutta Borah and Dr. Anupam Biswas	Development of Summarization Techniques for Legal Documents by Exploring Linguistic and Representation Learning Approaches
4.	Dr. Zakir Hussain	Dr. Malaya Dutta Borah	Study and Design Of Computational Models for Exploring Impacts of Nutritional Status on Various Types of Diseases
5.	Dr. Dolly Das	Dr. Saroj Kr Biswas	Design and Implementation of Deep Learning Based Intelligent System for Early Detection of COVID-19 using Chest X-Ray Images'
6.	Dr. Moumita Roy	Dr. Dalton Meitei Thounaojam	Design and development of perceptual image hashing algorithms and its applications
	Dr. Satish Kumar Satti	Dr. Suganya Devi K	An Advanced Driving Assistance System for Road Safety on Indian Structure Roads.
	Dr. GNV Raja Reddy	Dr. Suganya Devi K	Identification and classification of Oryza Sativa diseases with the help of improved image processing and optimized light weight deep convolutional neural network.
	Dr. Sekar K	Dr. Suganya Devi K	Pragmatic Prospects of Compressive Sensing for Energy-Efficient Data Collection in Wireless Sensor Networks



10.	Dr. Arutperumjothi G	Dr. Suganya Devi K	An Automated Algorithm For Detection of Abnormalities & Anemia in Blood Cells From Peripheral Blood Smears
11.	Candy Lalrempuii	Dr. Badal Soni	An Empirical Study on Neural Machine Translation for Low-Resource Mizo Language
12.	Ravi Teja Gedela	Dr. Ujwala Baruah and Dr. Badal Soni	Empirical Study on Computational Sarcasm Detection in English and Telugu

1. Name of the Department:

Electronics & Instrumentation Engineering





The Department at a glance	
Year of Establishment: 2008	
Academic Programmes Offered:	
• Bachelor of Technology (B.Tech) • Master of Technology (M.Tech) • Doctor of Philosophy (Ph.D.)	
Total Faculty Strength: 15 + 1(on-lien)	
• Professor: 1 • Associate Professor: 4 • Assistant Professor: 10 + 1(on-lien)	
Total Student Strength: 376	
• B.Tech: 339 • M.Tech: 04 • Ph.D.: 33	
New Students Joined in 2023-2024: 104	
• B.Tech: 99 • M.Tech: 02 • Ph.D.: 03	

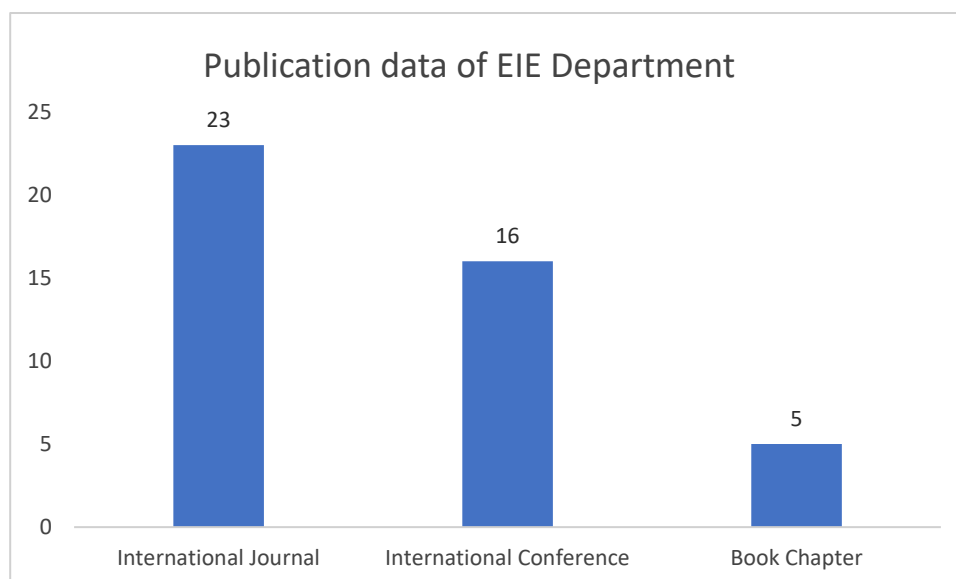


Fig: Publication details of E&I Engineering Department during 2023-2024

1.1 Academic Staff:

HEAD of the Department: Dr. Rajdeep Dasgupta, Associate Professor

Name of Faculty members:

Professor	Associate Professor	Assistant Professor
Prof. Shahedul Haque Laskar	Dr. Rajdeep Dasgupta	Dr. Jupitara Hazarika
	Dr. Munmun Khanra	Dr. Lalu Seban



	Dr. Arun Kumar Sunaniya	Dr. Sudarsan Sahoo
	Dr. Ranjay Hazra	Dr. Shivendra Kumar Pandey
		Dr. Koena Mukherjee
		Dr. Shankar K.
		Dr. Sudipta Chakraborty
		Dr. Anup Kumar Sharma
		Dr. Vipin Chandra Pal
		Dr. Pravin PS
		Dr. Manas Kumar Bera (on-lien)

Visiting Professor (If any): NIL

1.2 Distinction Achieved

b) By Faculty Member:

- R. Hazra received the SERB-SIRE fellowship to pursue research at National University of Singapore for 6 months.
- R. Hazra is the Guest Editor of Special Issue Call on Sustainable Application of Internet of Things and Artificial Intelligence for Sustainability Journal, MDPI.

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) Conducted by Faculty Member

Sl. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	Dr. Sudarsan Sahoo	Recent Trends in Renewable Energy Systems (Energy Enhancement, Storage, Condition Monitoring and Preventive Maintenance) [RTRES-2023]	SERB	24-28 July 2023
2	Dr. Shivendra Kumar Pandey	3rd International Conference on Emerging Electronics and Automation [E2A 2023]		15-17 Dec 2023

b) Participated by Faculty Member

Sl. No.	Name of Faculty	Details of the Program	Organizing Institute
1	Munmun Khanra	FDP on "Electric Vehicle Development and GARC EV Lab" on 21-23 March 2024 at Global Automotive Research Centre (GARC), Chennai.	Society of Automotive Engineers India



2	Shivendra Kumar Pandey	MRS Spring Meeting & Exhibit 2023, San Francisco, USA	Materials Research Society
3	Koena Mukherjee	Marine Robotic School, Goa, India	NIO, Goa, CSIR lab

1.4 Research Development

a) Ph.D. Programme (Specializations):

- All areas of Electronics & Instrumentation Engineering

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

Completed	Submitted	Ongoing
3	2	31

c) Lab / Workshop:

d) Ongoing/Completed Sponsored Research Project:

Sl. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1	Capacity Building for human resource development in Unmanned Aircraft System (Drone and Related Technology)	Ranjay Hazra (Chief Investigator)	MeiTy, Govt of India	150	2022-2027
2	Inclusive Economic Development of India via Digital STEM&L Education	Ranjay Hazra (PI), Manas K. Bera (Co-PI)	SPARC, MoE	49	2023-2025
3	RIS-aided D2D communication for 5G and beyond networks	Ranjay Hazra (PI)	CRG, SERB	51.3	2024-2026
4	Development of health diagnostic framework for onboard electric vehicle batteries and repurposing of retired batteries"	Munmun Khanra	SERB	22	2022-2025
5	Development of smart solar photovoltaic system having encapsulated phase change material with artificial intelligence based real-time conditioning monitoring	Sudarsan Sahoo (Co-PI)	CRG, SERB	48.66	2024-2027
6	Structural characterization and device performance of superlattice structure-based	Shivendra Kumar Pandey (PI)	CRG, SERB	39.41	2024-2027



	phase change memory for low power consumption and high-speed non-volatile data storage applications				
7	Establishment of Science Technology and Innovation Hub in NIT Silchar, Cachar, Assam, for the socio-economic upliftment of SC/ST population in Assam	Shankar.K. (Co-PI)	DST-SEED	144.37	2022-2025
8	Automation scope in fabricating biodegradable superhydrophobic composite using banana pseudostem fiber and beeswax for sustainable packaging applications	Anup Kumar Sharma (Co-PI)	DST	22	2024-2027
9	Design and Implementation of hybrid underwater vehicle manipulator (HUV) for cleaning of bio-fouling on a submerged pipeline in a sea	Koena Mukherjee (PI)	POWER, SERB	36.45	2022-2025
10	Design and implementation of a 1. AUV for pisciculture, 2. ROV for river water quality inspection	Koena Mukherjee (CO-PI)	TIH-IITG	30	2022-2025

e) Research Paper Reviewed

Sl. No	Faculty Name	Journal Name	No. of Paper	Year
1	Vipin Chandra Pal	Transactions of the Institute of Measurement and Control	4	2023-24
2	Munmun Khanra	Journal of Energy Storage	3	2023-24
		IEEE Tran. on Power Electronics	1	
		IEEE Sensor	1	
		IEEE Open Journal of Instrumentation and Measurement	1	
		IEEE/CAA Journal of Automatica Sinica	1	
		IEEE Access	2	
		SADHANA	1	
3	Shankar.K.	International journal of online and biomedical engineering	1	2023
4	Ranjay Hazra	Transactions on Emerging Telecommunication Technologies, Wiley	3	2023-2024



		International Journal of Communication Systems, Wiley	3	
		IET Communications	1	
		Brazilian Archives of Biology and Technology	1	
		IEEE Internet of Things Journal	2	
		Control and Cybernetics	1	
		Open Physics	1	
		IEEE Transactions on Image Processing	1	
		Network: Computation in Neural Systems	1	
		IEEE Communication Letters	4	
5	Jupitara Hazarika	Computers in Human Behavior Reports	1	2024
		PLOS ONE	1	
6	Rajdeep Dasgupta	Heliyon, Cell Press	1	2024
		Journal of Energy Storage	5	2023-24
7	Sudarsan Sahoo	Measurement	3	2023-24
		data in Brief	1	2023-24
		Engineering Applications of Artificial Intelligence	2	2023-24
8	Shahedul Haque Laskar	IEEE Instrumentation and Measurement	3	2023
		IEEE Measurement Magazine	4	2023-24
		IEEE Sensors	3	2023-24
9	Anup Kumar Sharma	Scientific Reports	1	2023-2024

f) Chairing of the Technical Session

Sl. No.	Faculty Name	Details
1	Vipin Chandra Pal	th Electric Power and Renewable Energy Conference (EPREC-2023) NIT Jamshedpur
2	Vipin Chandra Pal	Emerging Electronics and Automation 2023, NIT Silchar Assam
3	Arun K Sunaniya	Emerging Electronics and Automation 2023, NIT Silchar Assam
4	Ranjay Hazra	Emerging Electronics and Automation 2023 (E2A-2023), NIT Silchar Assam
5	Shankar.K.	E2A 2023
6	Sudarsan Sahoo	MNDCS-2024, E2A-2023
7	Anup Kumar Sharma	1. Emerging Electronics and Automation 2023 (E2A-2023), NIT Silchar Assam 2. ICEICT-2023, Goel Institute of Technology and Management, Gwalior



1.5 PUBLICATION

a) Journal(s):

1. Subhra S. Sarma and R. Hazra, Power optimization in a multi-cell D2D communication for smart city in a mm-Wave cellular network: An mIoT perspective, *IEEE Internet of Things Journal*, vol. 10, no. 21, pp. 18686-18694, 2023.
2. Subhra S. Sarma, A. Sachan, R. Hazra, F.A. Talukdar, A. Mukherjee, P. Chatterjee and W. Alnumay, D2D communication in a 5G mm-Wave cellular network for wireless sensor networks, *IEEE Sensors Journal*, vol. 24(5), pp. 5512-5521, 2024
3. J. Akhter, R. Hazra, A. Mihovska and R. Prasad, A Novel Resource Sharing Scheme for Vehicular Communication in 5G Cellular Networks for Smart Cities, *IEEE Transactions on Consumer Electronics*, Online, 2024
4. P. Goswami, R. Hazra, P. Milos, K. Choi, and M. Eider, A Novel Approach of Efficient Resource Allocation in Smart Consumer Electronics Device Network, *IEEE Transactions on Consumer Electronics*, Online, 2024
5. Subhra S. Sarma and R. Hazra, A decade review of Device-to-Device communication in mm-Wave network: Challenges and Solutions, *Wireless Personal Communications*, Springer, vol. 137, pp. 415-440, 2024
6. R Meena, VC Pal, S Chakraborty, A Modified Tilt Integral Derivative (MTID) Controller Design Using Direct Synthesis Approach, *The International Conference on Recent Trends in Communication & Intelligent*
7. K Agrawal, N Srivastava, R Negi, VC Pal, H^∞ stabilisation of discrete time-delayed systems with anti-windup approach, *International Journal of Automation and Control* 18 (1), 110-132
8. K Agrawal, R Negi, VC Pal, N Srivastava, Delay partitioning approach to the delay-dependent stability of discrete-time systems with anti-windup, *Smart Science* 11 (3), 583-604
9. Himangshu Deka, Arun Kumar Sunaniya, Pratima Agarwal, Simulation studies on MoS₂ (n)/a-Si:H (i)/c-Si (p)/MoO₃ heterojunction solar cells using one sided short diode approximation, *Solar Energy*, Elsevier, vol. 263, pp. 1-9, (2023)
10. S. Maity, M. Saha, P. Saha, and M. Khanra, Fractional calculus-based modeling and state-of-charge estimation of supercapacitor, *Journal of Energy Storage*, vol. 81, 110317, 2024.
11. Ramanujam E, Thinagaran Perumal, Shankar K., A review on fall detection systems in bathrooms: challenges and opportunities, *Multimed Tools Appl* 83,73477–73505 (2024)



12. Ramanujam E, Thinagaran Perumal, Shankar K., Fall detection systems at night, IEEE Computer, vol. 56, no. 6, pp. 44-51, June 2023
13. Priyam Kar, Jupitara Hazarika, An Efficacy Analysis of Affect Representation Methodologies Used in EEG-Based Emotion Recognition System: An Unsupervised Approach, *International Journal of Human-Computer Interaction*, 1-17, August 2023
14. R Haloi, D Chanda, J Hazarika, A Barman, Statistical feature-based EEG signals classification using ANN and SVM classifiers for Parkinson's disease detection, *International Journal of Experimental Research and Reviews*, 31 (2023): 141-149
15. Manas Ranjan Sethi, Sudarsan Sahoo, Joshuva Arockia Dhanraj, V. Sugumaran, Vibration signal-based diagnosis of wind turbine blade conditions for improving energy extraction using machine learning approach, Vibration Signal-Based Diagnosis of Wind Turbine Blade Conditions for Improving Energy Extraction Using Machine Learning Approach." ASTM International. Smart Sustain. Manuf. Syst.. 2023; 7(1): 14–40.
16. SR Mohanty, C Palanisamy, S Sahoo, S Rouray, Unlocking the Potential of Kesterite Solar Cells: Quantum Confinement Structures to Pave the Way for High-Performance Photovoltaic Technologies, Unlocking the Potential of Kesterite Solar Cells: Quantum Confinement Structures to Pave the Way for High-Performance Photovoltaic Technologies. Phys. Status Solidi A (2024) 2400341.
17. J Das, R Dasgupta, V Mahanta, K Ramanujam, Electrical Equivalent Circuit Model and RC Parameter Estimation for Vanadium Redox Flow Battery by Considering Self-discharge, Arabian Journal for Science and Engineering, 1-12 (2024)
18. S Yesmin, I Hussain, R Dasgupta, SS Dhar, Two-dimensional tungsten oxide nanoflakes grafted over g-C₃N₄ as excellent electrode materials for hybrid supercapacitors, Journal of Energy Storage, Volume 74, Part B, 25 December 2023, 109383.
19. Akriti Ghosh, Krishanu Nath, Manas Kumar Bera, Shahedul Haque Laskar, "A Two Loop Sliding Mode Controller for Upper Limb Exosuit in Presence of Actuator Non-linearities," IFAC-Papers OnLine, Volume 57, 2024, Pages 244-249, ISSN 2405-8963
20. Mohammad Atif Siddiqui, Md. Nishat Anwar and Shahedul Haque Laskar, "Sliding mode controller design based on simple closed loop set point experiment for higher order processes with dead time," International Journal of Chemical Reactor Engineering, (2023)
21. Atul Kumar Sharma, Anup Kumar Sharma, Ritu Sharma, Puneet Sharma, and Surbhi Singh. "Multifunctional Transparent Conductive Flexible Sensor based on Graphene/Polyaniline/Graphene Sandwich Composite on PDMS Substrate." IEEE Sensors Journal (2024).

1. Name of the Department:

Mathematics



The Department at a glance	
Year of Establishment: 1977	
Academic Programmes Offered:	
• Master of Science (M.Sc.) • Doctor of Philosophy (Ph.D.)	
Total Faculty Strength: 17	
• Professor: 2 • Associate Professor: 4 • Assistant Professor: 11	
Total Student Strength: 84	
• M.Sc: 46 • Ph.D.: 38	
New Students Joined in 2023-2024: 39	
• M.Sc: 24 • Ph.D.: 15	

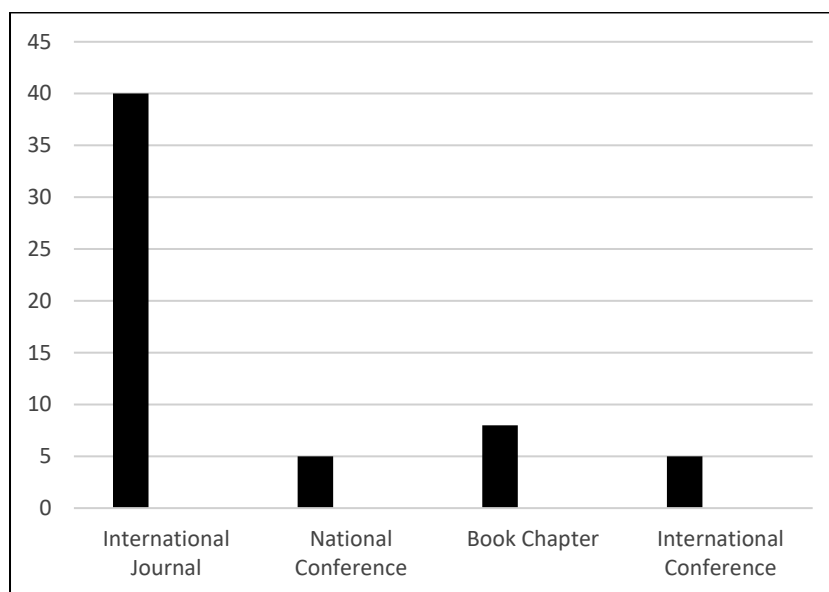


Fig: Publication details of Mathematics Department during 2023-2024

1.1. Academic Staff:

HEAD of the Department:

1. Dr. Ganti Ramesh, Assistant Professor (01-04-2023 to 31-10-2023)
2. Dr. Kedar nath Das, Associate Professor (01-11-2023 to 31-03-2024)

Name of Faculty members:

Professor	Associate Professor	Assistant Professor
Prof. Santanu Roy	Mr. Bijan Nath	Dr. Ganti Ramesh
Prof. Mausumi Sen	Dr. Pijus Kanti De	Dr. Praveen Kumar Gupta
	Dr. Kedar Nath Das	Dr. Md. Maqbul
	Dr. Subrata Bera	Dr. Pankaj Biswas
		Dr. Juthika Mahanta
		Dr. Balla Hema Sundar Raju
		Dr. Santan Kumar
		Dr. Aryaman Sensarma
		Dr. Ramakrishna Manchi
		Dr. Arijit Jana
		Dr. Avijit Das

Visiting Professor (If any): NIL

1.2 Distinction Achieved

- a) By Student: Shrestha Acharya (Scholar ID: 2148104) of M.Sc. batch 2021-23 has been selected for PhD Program in Mathematics at IIT Madras in July 2023.
- b) By Faculty Member: (Dr. P. K. De) International Researcher Award 2023 by Asia Research Award 2023



1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) Conducted by Faculty Member

Sl. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	Dr. Kedar Nath Das	Mathematical Olympiad Teachers Training Camp (MOTTCa 2023)	HBCSE, TIFR, Mumbai	20-24 Nov. 2023
2	Dr. Kedar Nath Das	Residential Science Teachers Training Camp (R-STTP 2024)	Govt. of Assam	(Ph-I: 7-12 Jan, Ph.II: 18-23 Jan, Ph.III: 12-17 Feb.; 2024)
3	Dr. Kedar Nath Das	International Day of Mathematics and 5 th Research Scholar Day 2024	NIT Silchar	14.03.2024

b) Participated by Faculty Member

Sl. No.	Name of Faculty	Details of the Program	Organizing Institute
1	Dr. Santan Kumar	Delivered an Invited Talk on “Biomimetic Waveguides: A Mathematical and Engineering Perspective” in International Conference on Mathematical Sciences and Its Applications to Artificial Intelligence (ICMSAAI-24) organised by the Department of Mathematics, SRM University Delhi-NCR, Sonapat, Haryana, India during January 17-19, 2024.	SRM University, Delhi-NCR, Sonapat, Haryana, India

1.4 Research Development

a) Ph.D. Programme (Specializations):

- Evolutionary Optimization, Networking Optimization, Multi-objective Optimization, Many Objective Optimization, Graph Theory Applications, Fuzzy Optimization
- Computational Fluid Dynamics, Micro and Nanofluidics Transport, Computational Mathematics
- Fuzzy and generalized fuzzy sets
- Elastodynamics, Theoretical Seismology, Mathematical Modeling, Solid Mechanics, Smart Materials and Structures, Micro-Continuum Modeling
- Integral equation, Integro-differential equation with application to image processing, Linear algebra, Inverse eigenvalue problem, Fuzzy set theory and optimization, Sequence spaces and summability.
- Differential Equations in Abstract Spaces.
- Approximation of Solutions to Differential Equations.
- Almost Periodicity of Solutions of Differential Equations.



- Numerical methods to PDE- application to heat transfer and MHD flows
- Operations Research and Optimization Techniques,
- Supply Chain Management, Inventory Management,
- Mathematical Modelling, Fuzzy Mathematics

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

Completed	Submitted	Ongoing
04	03	38

c) Research Lab/ Workshop:

Sl. No.	Name of Lab/Workshop	Purpose/Linkage to an existing/new programme
1	Operations Research Laboratory (Approved 2023)	To conduct PG Operation Research Lab and to serve the PhD research, and R and D activities.
2		

d) Ongoing/Completed Sponsored Research Project:

Sl. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1	Spring Rejuvenation for Water Security in Himalaya	PI: Mr S. K. Pattnayak Co-PI: Dr Kedar Nath Das Co-PI: Dr Sudipta Halder	Ministry of Environment, Forest & Climate Change, Govt. of India	33.71 Lakhs	3 years
2	Numerical study on electrokinetic flow through polyelectrolyte coated canonical nanopore	Dr. Subrata Bera	SERB-DST, Govt. of India	15.10683	2017-2020 (03 Years)
3	Elastodynamic Waves in Complex Stratified Structures: A Mathematical Approach (Sanction No. 02011/53/2023NBHM(R. P)/R&D-II/16483)	Dr. Santan Kumar	National Board for Higher Mathematics, Department of Atomic Energy, Government of India	Rs. 16,85,400/	3 years



4	A study on measure theoretical approach to convergence of sequences in probabilistic normed spaces	Prof. Mausumi Sen	SERB-DST, Govt. of India	15.3552	2015-2018 (03 Years)

e) Research Paper Reviewed

Sl. No	Faculty Name	Journal Name	No. of Paper	Year
1.	Dr. Praveen Kumar Gupta	Journal of Taibah University for Science	1	2023
		Heat Transfer	1	2023
		Physica Scripta	1	2023
2.	Dr. Juthika Mahanta	Scientific report	1	2023
3.	Dr. Subrata Bera	Physics of Fluids	3	2023-24
4.	Dr. Santan Kumar	Sensors	1	2023-24
		Mathematics and Mechanics of Solids	1	2023-24
		Applied Sciences	1	2023-24
		Waves in Random and Complex Media	1	2023-24
		Ecological Modelling	2	2023-24
		Journal of Marine Science and Engineering	1	2023-24
5	Prof. Mausumi Sen	Engineering Applications of Artificial Intelligence	1	2024
		Journal of Computational and Applied Mathematics	1	2023
		Boletim da Sociedade Paranaense de Matemática	1	2023
		AKCE International Journal of Graphs and Combinatorics	1	2024
		Rocky Mountain Journal of Mathematics.	1	2023

f) Chairing of the Technical Section

Sl. No.	Faculty Name	Details
1	Dr. Kedar Nath Das	2023 IEEE Silchar Subsection Conference (IEEE SILCON-2023), held during 03-05 November, 2023 at the National Institute of Technology Silchar, India.



1.5 PUBLICATION

a) International Journal(s):

1. Das, R., Das, K. N. Mallik, S., Laskar, N. M., Nath, S. (2024). "A novel Self-adaptive Multi-Population Quadratic Approximation guided Jaya algorithm for solving real-parameter constrained optimization problems." *Expert Systems with Applications*, 238, Part C, 121898, 2024. <https://doi.org/10.1016/j.eswa.2023.121898>
2. S. S. Raju M, Mohapatra, P., Dutta, Mallipeddi, R., and Das, K. N. (2024). "Optimal placement of fixed hub height wind turbines in a wind farm using twin archive guided decomposition based multi-objective evolutionary algorithm." *Engineering Applications of Artificial Intelligence*, Elsevier, 130, pp. 107735. <https://doi.org/10.1016/j.engappai.2023.107735>
3. S. S. Raju M, Dutta, S., Mallipeddi, R., Das, K. N., and Lee, D. G. (2024) "A constrained multi-objective evolutionary algorithm with clustering based weight vector adaptation." *Swarm and Evolutionary Computation*, 84, p. 101432. <https://doi.org/10.1016/j.swevo.2023.101432>
4. Mahanta, K., Banerjee, D., Bariar, P., Sah, P.K., Arefin, S., Pati, S., & Biswas, P. (2024) "Analysis of Electroosmotically Modulated Peristaltic Transport of Third Grade Fluid in a Microtube Considering Slip-Dependent Zeta Potential", *ASME Journal of Fluids Engineering*, 146(9), 091201. <https://doi.org/10.1115/1.4064997>
5. Sarkar, T., Biswas, P. & Srivastava, P. K. (2024). "Modeling the effects of media information and saturated treatment on malaria disease with NSFD method", *International Journal of Biomathematics*, <https://doi.org/10.1142/S1793524524500013>
6. Sarkar, T., Srivastava, P. K. & Biswas, P., (2024). Application of the NSFD method in a Malaria model with nonlinear incidence and recovery rates", *The European Physical Journal Plus*, 139(3), 1-32. <https://doi.org/10.1140/epjp/s13360-024-05045-x>.
7. Das, S., Srivastava, P. K. & Biswas, P., (2024). "Exploring Hopf-bifurcations and endemic bubbles in a tuberculosis model with behavioral changes and treatment saturation", *Chaos: An Interdisciplinary Journal of Nonlinear Science*, 34(1), 013126. <https://doi.org/10.1063/5.0179351>
8. Das, S. Srivastava, P. K. & Biswas, P., (2024). "Tuberculosis transmission with multiple saturated exogenous reinfections", *International Journal of Biomathematics*, 2350064. doi: 10.1142/S179352452350064X
9. Choudhury, S. A., Kumar, N. K., Biswas, P. & Khan, A., (2024). "Nonconforming spectral element approximation for parabolic PDE with corner singularity", *Computers & Mathematics with Applications*, 167(1), 54-73. <https://doi.org/10.1016/j.camwa.2024.04.029>
10. Jana, S., Patel, A., & Mahanta, J., (2024). "Deriving fuzzy topological relations from incomplete observations", *Journal of Geographical Systems*. <https://doi.org/10.1007/s10109-023-00432-x>.
11. Patowary, J., Patel, A., Jana, S. & Mahanta, J. (2024). "A novel distance measure for intuitionistic fuzzy sets and its application in pattern classification, medical diagnosis, and career determination", *Int. J. of Computing Science and Mathematics*. DOI: 10.1504/IJCSM.2023.10059831.



12. Jana, S., Patel, A., & Mahanta, J., (2023). "A Quantitative Fuzzy-Valued Intersection Matrix for Obtaining Fuzzy Relationships Between Vague Spatial Objects", *Decision Analytics Journal*, 9, 100353.
13. Patel, A., Jana, S., & Mahanta, J., (2023). "Construction of Similarity Measure for Intuitionistic Fuzzy Sets and Its Application In Face Recognition and Software Quality Evaluation", *Expert Systems With Applications*, Volume 237, Part B, 1 March 2024, 121491.
14. Kumar, N., Patel, A., & Mahanta, J., (2023). "K-L divergence based distance measure for Pythagorean fuzzy sets with various applications", *Journal of Experimental & Theoretical Artificial Intelligence*, <https://doi.org/10.1080/0952813X.2023.2240813>
15. Patel, A., Jana, S., & Mahanta, J., (2023). "Intuitionistic fuzzy EM-SWARA TOPSIS approach based on new distance measure to assess the medical waste treatment techniques", *Applied Soft Computing*, Volume 144, September, 110521.
16. Kumar, S., Kumari, R., & Singh, A. K. (2023). Love wave on a flexoelectric piezoelectric-viscoelastic stratified structure with dielectrically conducting imperfect interface. *The Journal of the Acoustical Society of America (AIP)*, 154(6), 3615-3626.
17. Kumari, R., Singh, A. K., Kumar, S., & Guha, S. (2024). Transmission of Lamb wave in a micro-mechanically piezoelectric fiber-reinforced composite plate. *Wave Motion (Elsevier)*, 128, 103307.
18. Adak, A., Mukherjee, D., & Gupta, K. P., (2024). Bifurcation and stability analysis of atherosclerosis disease model characterizing the anti-oxidative activity of HDL during short- and long-time evolution, *Zeitschrift für Naturforschung A*, 2024 (Verlag–der–Zeitschrift–für–Naturforschung)
19. Devi A., & Gupta, K. P., (2024). Bifurcation Analysis of a COVID-19 Dynamical Model in the Presence of Holling Type-II Saturated Treatment with Reinfection, *Iranian Journal of Science*, 48, 161–179.
20. Adak, A., Devi, A., & Gupta, K. P., (2023). Dynamical Behaviour of Pro- and Anti-Inflammatory Cytokines during Pathogenesis of Atherosclerosis, *Communication in Biomathematical Sciences*, 6 (2), 108–125.
21. Gupta, N., & Maqbul, Md., (2024). Approximate solutions to hyperbolic partial differential equation with fractional differential and fractional integral forcing functions, *Rendiconti di Matematica e delle sue Applicazioni* 45, 201-227.
22. Gupta, D., Sen, M., Sarkar, N., Miah, B.A., (2024) A qualitative investigation on Caputo fractional neutral VF integro differential equation and its uniform stability, *Journal of Analysis*, 32(4), 2005–2020.
23. Miah, B.A., Sen, M., Murugan, R., Gupta, D., (2024). Developing Riemann–Liouville-Fractional Masks for Image Enhancement, *Circuits, Systems, and Signal Processing*, 43(6), 3802–3831.
24. Bardhan, B., Sen, M., Sharma, D., (2024). Extremal inverse eigenvalue problem for matrices described by a connected unicyclic graph, *Applications of Mathematics*, 69(2), 273–286.
25. Kavya, P.V., Nath, B., Sen, M., Tripathy, B.C., (2024). On Relative Uniform Convergence of Triple Sequence of Functions, *Boletim da Sociedade Paranaense de Matematica*, 42.



26. Bardhan, B., Sen, M., Sharma, D., (2023) Two inverse eigenvalue problems for matrices whose graphs are trees, *AKCE International Journal of Graphs and Combinatorics*, 20(2), 120–124.
27. Haloi, R., Sen, M., Tripathy, B.C., (2023) Asymptotically Lacunary μ -Statistical Equivalence of Generalized Difference Sequences in Probabilistic Normed Spaces, *Boletim da Sociedade Paranaense de Matematica*, 41.
28. Barman, A., Chakraborty, A. K., Goswami, A., Banerjee, P., & P. K. De, (2023) "Pricing and inventory decision in a two-layer supply chain under the weibull distribution product deterioration: An application of nsga-ii," *RAIRO-Operations Research*, vol. 57, no. 4, pp. 2279–2300.
29. Barman, A., De, P. K., Chakraborty, A. K., Lim, C. P., & Das, R., (2023) "Optimal pricing policy in a three- layer dual-channel supply chain under government subsidy in green manufacturing," *Mathematics and Computers in Simulation*, vol. 204, pp. 401–429, 2023.
30. Das, R., Barman, A., Roy, B., and De, P. K., (2023) "Pricing and greening strategies in a dual-channel supply chain with cost and profit sharing contracts," *Environment, Development and Sustainability*, 25(6), pp. 5053–5086.
31. Kumari, M., De, P. K., & Chakraborty, A. K (2023). Formulation of a multi-period multi-echelon location inventory routing problem comparing different nature-inspired algorithms. *Sādhanā*, 48, 280.
32. Kumari, M., De, P. K., Chaudhuri, K., & Narang, P. (2023). Utilizing a hybrid metaheuristic algorithm to solve capacitated vehicle routing problem. *Results in Control and Optimization*, 13, 100292. DOI: 10.1016/j.rico.2023.100292
33. Kumari, M., De, P. K., Narang, P., & Shah, N. H. (2023). Integrated optimization of inventory, replenishment, and vehicle routing for a sustainable supply chain utilizing a novel hybrid algorithm with carbon emission regulation. *Expert Systems with Applications*, 220, 119667. DOI: 10.1016/j.eswa.2023.119667
34. Narang, P., De, P. K., Kumari, M., & Shah, N. H. (2023). A bottom-up method to analyze the environmental and economic impacts of recycling lithium-ion batteries with different cathode chemistries. *Environment, Development and Sustainability*, 1-49. DOI: 10.1007/s10668- 023-04169-x
35. Narang, P., Kumari, M., & De, P. K. (2023). A Three-Layer Imperfect Production Supply Chain Model with Green Investment under Trade Credit and Cap-Trade Policy. *Journal of Industrial Integration and Management*, 1-37. DOI: 10.1142/S2424862223500057
36. Narang, P., De, P. K., & Kumari, M. (2023). Optimizing the Production rate of EV battery cell in an EPQ model with process-based cost method using Genetic Algorithm: A case study of NMC-622 cell. *Results in Control and Optimization*, 11, 100229. (Scopus) DOI: 10.1016/j.rico.2023.100229
37. Narang, P., & De, P. K. (2023). An imperfect production-inventory model for reworked items with advertisement, time and price dependent demand for non-instantaneous deteriorating item using genetic algorithm. *International Journal of Mathematics in Operational Research*, 24(1), 53-77. DOI: 10.1504/IJMOR.2023.128645
38. Narang, P., & Kanti De, P. (2023). Economic Production Quantity Model considering Rework of Imperfect Goods under Stock, Advertisement, Selling Price and Replacement

Period dependent Demand. Journal of Industrial Integration and Management. DOI: 10.1142/S2424862223500306

39. De, P. K., Devi, S. P., & Narang, P. (2023). Inventory model for deteriorating goods with stock and pricedependent demand under inflation and partial backlogging to address post Covid-19 supply chain challenges. Results in Control and Optimization, 100369. DOI: 10.1016/j.rico.2023.100369
40. Verma, R., Narang, P., & Kanti De, P. (2023). An EOQ Model with Time-Dependent Demand and Holding Cost under the Effect of Inspection on Deterioration Rate. Journal of Industrial Integration and Management, 2350015. DOI: 10.1142/S242486222350015X

b) International Conference(s):

1. Das, R., Das, K. N. (2023). "Efficiency Optimization of Winner-Takes-All Circuit Optimization using Self-Adaptive Multi-Population Quadratic Approximation guided Jaya Algorithm." Proceedings of IEEE Region 10 Symposium (TENSYP-2023), Canberra, Australia.
2. Koner, P., & Bera, S., (2023). Rheological impact of a time-periodic electroosmotic flow of Maxwell fluid through a concentric cylindrical annulus, AIP Conference Proceedings, Vol. 2819, 050010. <https://doi.org/10.1063/5.0136876>
3. Sharma, P., Saha, S., & Biswas, P., (2024). "Solitons of the Modified KdV equation with variable coefficients," 3rd International Conference on Modeling, Simulation and Optimization(COMSO 2022), NIT Silchar, 373.
4. Patel, A., Lemtur, S., & Mahanta, J., (2023). "A novel distance measure for intuitionistic fuzzy sets with its application in pattern classification and decision-making", 2nd International Conference on Applied Mathematics in Science and Engineering.
5. Jana, S., Mahanta, J., (2023) "On Regular Fuzzy boundary", 2nd International Conference on Applied Mathematics in Science and Engineering

c) National Conference(s):

1. De, P. K., , Chakraborty, A. K., Barman, A., & Das, R. (2023) "Strategic analysis of a dual channel green supply chain with return-refund facility," in Applications of operational research in business and industries: Proceedings of 54th annual conference of ORSI, Springer, 2023, pp. 295–309
2. Narang, P., Kumari, M., & De, P. K. (2023). An Imperfect Production System for Non-instantaneous Deteriorating Goods with Preservation Technology under Cap-and-Trade Policy. In *Soft Computing: Theories and Applications: Proceedings of SoCTA 2022* (pp. 357-369). Singapore: Springer Nature Singapore. DOI: [10.1007/978-981-19-9858-4_30](https://doi.org/10.1007/978-981-19-9858-4_30)
3. Narang, P., Kumari, M., & De, P. K. (2023, May). Production Inventory Model with Three Levels of Production and Demand for Deteriorating Item under Price, Stock and Advertisement Dependent Demand. In *Applications of Operational Research in Business and Industries: Proceedings of 54th Annual Conference of ORSI* (pp. 49-68). Singapore: Springer Nature Singapore. DOI: [10.1007/978-981-19-8012-1_4](https://doi.org/10.1007/978-981-19-8012-1_4)



4. Kumari, M., Narang, P., De, P. K., & Chakraborty, A. K. (2023, May). Optimization of an Inventory Model with Demand Dependent on Selling Price and Stock, Nonlinear Holding Cost Along with Trade Credit Policy. In *Applications of Operational Research in Business and Industries: Proceedings of 54th Annual Conference of ORSI* (pp. 141-158). Singapore: Springer Nature Singapore. DOI: [10.1007/978-981-19-8012-1_10](https://doi.org/10.1007/978-981-19-8012-1_10)
5. Kumari, M., Narang, P., & De, P. K. (2023). Optimization of an Inventory Model with Selling Price and Stock Sensitive Demand Along with Trade Credit Policy. In *Soft Computing: Theories and Applications: Proceedings of SoCTA 2022* (pp. 47-57). Singapore: Springer Nature Singapore. DOI: [10.1007/978-981-19-9858-4_5](https://doi.org/10.1007/978-981-19-9858-4_5)

d) Book/Chapter:

1. Ahmed, A. Z., Das, K. N. (2024). "Ethical issues on Drug Delivery and its Impact in Healthcare." in the book: 'Computational Intelligence in Healthcare Informatics', pp. 307-328.
2. Das, K. N., Paul, R. (2023). "From Evolution to Intelligence: Exploring the synergy of optimization and machine learning." in the book 'Advanced machine learning with evolutionary and metaheuristic techniques', Springer, Nature.
3. Koner, P., & Bera, S., (2023). Mass Transport of Combined Oscillating Electroosmotic and Pressure Driven Flow Through Cylindrical Nanopore Considering Ion Partitioning Effects, *Advances in Data-Driven Computing and Intelligent Systems. ADCIS 2023. Lecture Notes in Networks and Systems*, Vol 893, PP.143-160, Springer, Singapore. https://doi.org/10.1007/978-981-99-9518-9_11
4. Kumar, N., & Mahanta, J., (2023). Pythagorean fuzzy distance measure with hesitancy degree and application in decision making. In *A handbook on emerging trends in Mathematical sciences and computing*, Nova Science Publishers, USA.
5. Patel, A., Jana, S., & Mahanta, J., (2023). Prostate Cancer Risk Analysis Using Artificial Neural Network. In *Soft Computing: Theories and Applications*, Springer, Singapore.
6. Jana, S., & Mahanta, J., (2023). Intuitionistic Fuzzy 9 Intersection Matrix for Obtaining the Relationship Between Indeterminate Objects. In: Bhateja, V., Sunitha, K.V.N., Chen, YW., Zhang, YD. (eds) *Intelligent System Design. Lecture Notes in Networks and Systems*, Vol 494. Springer, Singapore. https://doi.org/10.1007/978-981-19-4863-3_16.
7. Adak, A., Devi, A., & Gupta, K. P., (2024). Effect of reverse cholesterol transport on porous media type ABC fractional atherosclerosis model with memory function, In: Dharmendra Tripathi, Jagrati Saharia, Rakesh Mishra, Rampal Pandey, Kusum Sharma (eds), *AIP Conference Proceeding*, Vol 3025, Issue 1, 030009, 11 March 2024, AIP Publishing. <https://doi.org/10.1063/5.0201315>
8. Gupta, N., & Maqbul, Md., (2023). Approximate Solutions to Delay Diffusion Equations with Integral Forcing Function. In: D. Giri et al. (editors), *Proceedings of the Ninth International Conference on Mathematics and Computing, Lecture Notes in Networks and Systems*, 339-351.

1.6 CONSULTANCY SERVICES: NIL

1.7 MAJOR EQUIPMENT ACQUIRED:



1. C-Frame (module on castors) series Laboratory furniture with granite worktop for Environmental Engineering.

1.8 PATENT: NIL

Sl. No.	Details	Year
1		

1.9 VISITS TO ABROAD:

Sl. no	Name of the Faculty	Name of the Conference/ Programme	Place	Date
1	Dr. Kedar Nath Das	IEEE Region 10 Symposium (TENSYP-2023), Canberra, Australia, 2023.	Canberra, Australia	04-10 Sept. 2023
2	Dr. Pankaj Biswas	(10th International Congress on Industrial and Applied Mathematics) ICIAM2023-Tokyo	Waseda University, Tokyo, Japan	August 20-25, 2023
3	Dr. Pankaj Biswas	First Sharjah International Conference on Mathematical Sciences	University of Sharjah , UAE	6 th to 8 th of November 2023

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

Sl. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project
1	Mihir Patel	Dr. Kedar Nath Das	A Modified Line Search Based BFGS Bi-Objective Optimization Techniques to Enhance Stock Matching Trading Strategy
2	Dipandita Rabha	Dr. Kedar Nath Das	A robust 4X GA for Graph Colouring Problem
3	Gargi Gautam	Dr. Kedar Nath Das	Indicator-based Weight Vector Adaption in Decomposition-based MOEA
4	Sourav Majhi	Dr. Subrata Bera	A Study on Heat Transfer Characteristic of Combined Electroosmosis and Pressure driven flow in rectangular micro-channel
5	Suresh Kumar	Dr. Subrata Bera	Combined Electroosmotic Flow Pressure Driven Flow In The Rectangular Micro-Channel: The Effect Of Debye-Length
6	Anamitro Biswas	Dr. Juthika Mahanta	Coast of a fuzzy set as a 'crisper' subset of the boundary
7	Chinmaya Pradhan	Dr. Juthika Mahanta	An atypical 3d similarity measure for intuitionistic fuzzy sets
8	Devleena Kashyap	Dr. Santan Kumar	A case-wise study of Love-type wave propagating in viscoelastic structure due to a point source
9	Z Mhachamo Ezung	Dr. Santan Kumar	Rayleigh-type wave propagation in local and nonlocal elastic structures: A comparative analysis
10	Shrestha Acharjee	Dr. Praveen Kumar Gupta	A Mathematical Study on Heat Transfer during Hyperthermia Treatment
11	Nithisha Pandey	Dr. Praveen Kumar Gupta	Analytical Study of COVID-19 Disease Through Modelling Approach in Post-



			Vaccination Scenario
12	Nakshtra Ghosh	Dr. Md. Maqbul	Approximation of Solution of Non-Linear Partial Differential Equations
13	Sandhyadip Behera	Dr. Md. Maqbul	A Study on the Completeness of Q with respect to the p-adic Metric
14	Ramesh Kabbur	Dr. Balla Hema Sundar Raju	Fourth order finite difference scheme for solving convection diffusion equation using pseudo time iteration technique
15	Sumit Saurabh	Sri Bijan Nath	Rough Statistical Convergence for "sequence of difference function"
16	Ashish Kumar Yadav	Dr. Ganti Ramesh	Integrating RSA Cryptography to Enhance the Security of the Diffie – Hellman Key Exchange Protocol
17	Gaurav Pathak	Dr. Pankaj Biswas	Mathematical Modelling of Malaria Disease with Asymptomatic Infectious Class and Saturated Treatment
18	Nadish Patel	Dr. Pijush Kanti De	An Inventory Model for Deteriorating Items with Imperfect Quality
19	Saurap Das	Prof. Santanu Roy	Study of Alexandroff Soft Topological Spaces with Fuzzy Approach
20	Yashi Gupta	Dr. Pankaj Biswas	Mathematical Modelling of Tuberculosis with Incomplete Treatment
21	Rahul Singh	Dr. Pijus Kanti De	An Efficient Production Inventory System for Variable Demand, Reworking, Shortages, and Scrapping in an Imperfect Environment
22	Rajeshwari Paul	Dr. Ganti Ramesh	A Comparative Study on the Various Radix Fast Fourier Transform Algorithms

1.11 Ph.D. Thesis

Sl. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis
1.	Srisrinivasaraju M.	Dr. Kedar Nath Das	Novel Weight Vector Adaptation Strategies for Decomposition based Multi/Many-objective Evolutionary Algorithms and their Application
2.	Rajeev Das	Dr. Kedar Nath Das	Design and Applications of Robust Metaheuristics for Constrained Optimization Problems
3	Anjali Patel	Dr. Juthika Mahanta	A study on distance and similarity measures for intuitionistic fuzzy sets and their applications
4	Subhankar Jana	Dr. Juthika Mahanta	Determination of topological relations between vague spatial objects in GIS using fuzzy and generalized fuzzy topology

1. Name of the Department:

Physics



The Department at a glance	
Year of Establishment: 1977	
Academic Programmes Offered:	
• Master of Science (M.Sc.) • Doctor of Philosophy (Ph.D.)	
Total Faculty Strength: 10	
• Professor: 1 • Associate Professor: 4 • Assistant Professor: 5	
Total Student Strength: 58	
• M.Sc.: 32 • Ph.D.: 26	
New Students Joined in 2023-2024: 25	
• M.Sc.: 19 • Ph.D.: 6	

1.1 Academic Staff:

HEAD of the Department: Prof. Asim Roy, Professor / Dr. Saumya R. Mohapatra, Associate Professor



Name of Faculty members:

Professor	Associate Professor	Assistant Professor
Prof. Asim Roy	Dr. Subrat Kumar Barik	Dr. P. Srinivasan
	Dr. Rupak Dutta	Dr. Subhasis Panda
	Dr. Saumya R. Mohapatra	Dr. Pankaj Chaturvedi
	Dr. Ranjith G. Nair	Dr. Snehasish Nandy
		Dr. Susmita Rabha

Visiting Professor (If any): NIL

1.2 Distinction Achieved

a) By Student:

- **Divagar S** (Scholar ID: 2249117) of PG batch 2022-24 scored AIR 470 (46.33/100 marks) in GATE 2024 (Physics). He got selected in IIT (ISM) Dhanbad for Ph.D. program in Physics. He has participated and presented (poster) a paper entitled, "Linear Optical Studies on Hexamethylenetetramine-Poly (Vinyl Alcohol) nanofibers in the National Conference on Chemical Physics, 2024 (NCCP-2024), organised by the Department of Physics, Assam University, Silchar. He has also filed an Indian patent titled, "Selective Harvesting Glove Set with Force Sensitive Memory Materials for Gentle Fruit Harvesting" with Patent Application No: IN202431015582.
- **Rajesh deb**
NIMS internship program attended: NIMS internship program, National Institute for Materials Science, Japan, 10-07-2023 to 07-09-2023.
- **Snigdha Patra** (Scholar ID: 21309025), Ph.D. Scholar, awarded 2nd prize for the best Poster Presentation in the International Conference on Frontiers in Pure and Applied Physics (ICFPAP), 2024 organized by department of Physics, University of Science and Technology Meghalaya (USTM) in collaboration with Physics Academy of North East (PANE) held during 29-02-2024 to 02-03-2024.
- **Nipom Shekhar Das** (Scholar ID: 18-3-24-104), Ph.D. Scholar, awarded the best poster in the offline Familiarization Workshop on the Nanoelectronics: Fabrication and Characterization under the Indian Nanoelectronics Users' program (INUP-i2i) held at the Center for Nanotechnology, IIT Guwahati from 25-04-2023 to 27-04-2023.

b) By Faculty Member:

- **Dr. Ranjith G. Nair:**
Acted as External Examiner for M.Sc. Minor project evaluation at NIT Nagaland (2023).
- **Dr. P. Srinivasan**
 1. Delivered invited lecture on SERB Karyashala on Explainable AI – THEORETICAL inputs and experimental applications 03-07-2023 to 09-07-2023 Conducted by the Department of CSE, NIT Silchar.
 2. Invited for a guest lecture on Innovation and Design Thinking on 18-04- 2023 organized by Department of Biomedical Engineering in association with Institution's Innovation Council (IIC-PEC), Paavai Engineering College, Namakkal.



1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) Conducted by Faculty Member

Sl. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	Dr. R.G. Nair et al.,	IEEE Silchar Subsection Conference (SILCON), 2023	IEEE	3 rd Nov – 5 th Nov, 2023
2.	Prof. Asim roy, Dr. Rupak Dutta, Dr. Ranjith G. Nair, Dr. Saumya R. Mohapatra, Dr. Susmita Rabha, Dr. Snehasish Nandy, Dr. Pankaj Chaturvedi	Residential Science Teachers Programme, 8 th January, 2024 – 17 th Feb, 2024 (Phase I, Phase II, Phase III)	Samagra Shiksha Assam	08.01.2024 – 17.02.2024

b) Participated by Faculty Member

Sl. No.	Name of Faculty	Details of the Program	Organizing Institute
1	Dr. Ranjith G. Nair	Talk on “Recent Trends of Research in Theoretical and Experimental Physics”	The Department of Physics, Gurucharan College Silchar and S.N.Bose National Centre for Basic Sciences Kolkata

1.4 Research Development

a) Ph.D. Programme (Specializations):

- Solar Energy Materials
- Solar photovoltaic and photocatalysis
- Green hydrogen Production
- Theoretical High Energy Physics (phenomenology)
- Nonlinear Optics
- Crystal Growth
- Theoretical Condensed Matter Physics
- Experimental Condensed Matter Physics
- Semiconductor Nanostructure
- Resistive Random Access Memory
- High-k for CMOS Technology
- Perovskite Solar Cell
- Quantum Field Theories, String Theory
- Quantum Anomaly in Topological Semimetals
- Microwave ceramics and thin films


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

Completed	Submitted	Ongoing
0	0	19

c) Lab/ Workshop:

Sl. No.	Name of Lab/Workshop	Purpose/Linkage to an existing/new programme
1	B. Tech Lab	UG
2	Physics Lab I	PG
3	Physics Lab II	PG
4	Physics Lab III	PG
5	Microscience and Nanophysics Laboratory	PG and PhD program
6	Solar Energy Materials Research and Testing Laboratory (SmaRT Lab) (Dr. Ranjith G. Nair)	PG and PhD program
7	Crystal Research Lab (Dr. P. Srinivasan)	PG and PhD program
8	Computational Condensed Matter Lab (Dr. S. Panda)	PG and PhD program
9	Multifunctional Materials Laboratory (Dr. S.K. Barik)	PG and PhD program
10	Solid State Ionics Lab (Saumya R. Mohapatra)	PG and PhD program
11	High Energy Physics Lab (Dr. Rupak Dutta)	PG and PhD program
12	DST-FIST Lab I & II	PG and PhD program

d) Ongoing/Completed Sponsored Research Project:

Sl. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1	Development of Visible Active Multiphasic Titania- Metal Oxide Nanoheterojunction Photocatalyst with Enhanced Green Hydrogen Production Capacity and Test its Utility in an Indigenously Fabricated	Dr. R.G. Nair (PI) Prof. S. S. Dhar (Co-PI) Dr. Agnimitra Biswas (Co-PI)	DST-SERB	46.39	Jan 2023 to Jan 2026



	Prototype Solar Photocatalytic Reactor for Large Scale Applications.				
2	Investigation of Resistive Switching Behaviour of Lead Free RbSnX_3 ($\text{X}=\text{I}, \text{Cl}, \text{Br}$), an Sn based Perovskite.	Dr. Arabinda Barman Prof Asim Roy (Co-PI)	DST-SERB	18	Dec 2021 to Dec 2024
3	Fabrication and Optimization of Lead-free Inorganic Halide Perovskite based Memristive Devices and Systematic Investigation of Synaptic Characteristics for Neuromorphic Applications.	Dr. Pranab Kumar Sarkar (PI) Prof. Asim Roy (Co-PI)	SERB	34.28	Nov 2022 to Nov 2025

e) Research Paper Reviewed

Sl. No	Faculty Name	Journal Name	No. of Paper	Year
1	Dr. Ranjith G. Nair	Indian Chemical Engineer	1	2024
2	Dr. Ranjith G. Nair	Journal of Alloys and Compounds	1	2024
3	Dr. Ranjith G. Nair	ACS Applied Materials & Interfaces	1	2023
4	Dr. Ranjith G. Nair	ACS Omega	1	2023
5	Dr. Ranjith G. Nair	Physica B: Condensed Matter	1	2023
6	Dr. Ranjith G. Nair	Indian Chemical Engineer	1	2023
7	Dr. Saumya R. Mohapatra	Microelectronic Engineering	1	2023
8	Dr. Saumya R. Mohapatra	Surfaces and Interfaces	1	2023
9	Dr. P. Srinivasan	Optik	1	2023
10	Dr. P. Srinivasan	Journal of Crystal Growth	1	2023
11	Dr. P. Srinivasan	Journal of Molecular Structure	1	2023
12	Dr. P. Srinivasan	Journal of Materials Science	1	2023

f) Chairing of the Technical Session

Sl. No.	Faculty Name	Details
1	Dr. Ranjith G. Nair	Session chair for session 10 at IEEE Silchar Subsection Conference (SILCON), 2023 organized by NIT Silchar on 5 th Nov, 2023.



1.5 PUBLICATION

a) Journal(s):

1. Trinayana Deka and Ranjith G. Nair (2024). "Recent advancements in surface plasmon resonance and Schottky junction assisted photocatalytic water splitting of noble metal decorated Titania: A review" International Journal of Hydrogen Energy, 59, 322-342. <https://doi.org/10.1016/j.ijhydene.2024.02.002>
2. Riu Riu Wary, Mousumi Narzary, SK Nikhil, Ranjith G. Nair, Pranjal Kalita and Manasi Buzar Baruah (2024). "Rational construction of carbon-rich g-C₃N₄ wrapped over CePO₄ nanorods: Oxygen vacancy mediated 1D/2D Z-scheme photocatalyst towards removal of congo red dye" Colloids and Surfaces A: Physicochemical and Engineering Aspects, 684, 133142. <https://doi.org/10.1016/j.colsurfa.2024.133142>
3. SK Nikhil, Gopika Rajeev Nair, Mathan Kumar, Muthuraaman Bhagavathiachari and Ranjith G. Nair (2024). "A doped heterojunction photoanode: a strategy-driven approach to improve the charge carrier dynamics and photoconversion performance of the TiO₂-based dye" Journal of Materials Science: Materials in Electronics, 35, 602. 165 <https://doi.org/10.1007/s10854-024-12344-7>
4. Abinash Das, Dongyu Liu, RiuRiu Wary, Andrey S Vasenko, Oleg V Prezhdo and Ranjith G. Nair (2013). "Mn-Modified ZnO Nanoflakes for Optimal Photoelectrochemical Performance Under Visible Light: Experimental Design and Theoretical Rationalization" The Journal of Physical Chemistry Letters, 14, 9604-9611. <https://doi.org/10.1021/acs.jpclett.3c02730>
5. Riu Riu Wary, Dulu Brahma, SK Nikhil, Ranjith G. Nair, Pranjal Kalita and Manasi Buzar Baruah (2023). "Surface decoration of spherical Ag₃PO₄ with Ag embedded nano-cocoon BiPO₄ nano-heterojunction photocatalyst with improved photodegradation of tetracycline hydrochloride and ..." Colloids and Surfaces A: Physicochemical and Engineering Aspects, 669, 131541. <https://doi.org/10.1016/j.colsurfa.2023.131541>
6. Abinash Das, Dongyu Liu, RiuRiu Wary, Andrey S Vasenko, Oleg V Prezhdo and Ranjith G. Nair (2023). "Enhancement of photocatalytic and photoelectrochemical performance of ZnO by Mg doping: experimental and density functional theory insights" The Journal of Physical Chemistry Letters, 14, 4134-4141. <https://doi.org/10.1021/acs.jpclett.3c00736>
7. Suma Das, Swapnamoy Pramanik, Ranjith G. Nair and Avijit Chowdhury (2023). "Unlocking the potential of thermally exfoliated ultrathin gC₃N₄ nanosheets: abundant active sites for enhanced solar photocatalysis" New Journal of Chemistry, 47, 12418-12430. <https://doi.org/10.1039/D3NJ01946B>
8. N. Das and R. Dutta (2023). "New physics analysis of baryonic Λ_b decays with dileptons or dineutrinos in the final state within the SMEFT framework" Phys. Rev. D, 108, no. 9, 095051, 2023, doi:10.1103/PhysRevD.108.095051.
9. I. A. Mazumder and R. Dutta (2023). "One vanishing minor in the neutrino mass matrix using trimaximal mixing," Phys. Rev.D, 107, no.11, 115023, doi:10.1103/PhysRevD.107.115023.
10. N. Das and R. Dutta (2023), "New physics analysis of $\Lambda_b \rightarrow (\Lambda^*(\rightarrow pK^-), \Lambda(\rightarrow p\pi))(\mu^+\mu^-, u\bar{u})$ baryonic decays under SMEFT framework," Phys. Rev. D 108, no.9, 095051 doi:10.1103/PhysRevD.108.095051.



11. I. A. Mazumder and R. Dutta, "One vanishing minor in the neutrino mass matrix using trimaximal mixing," *Phys. Rev.D* 107, no.11, 115023 (2023) doi:10.1103/PhysRevD.107.115023
12. R Deb, Manjula G. Nair, Ujjal Das and Saumya R. Mohapatra (2023) "Contrasting Analog and Digital Resistive Switching Memory Characteristics in Solution-Processed Copper (I) Thiocyanate and Its Polymer Electrolyte Based Memristive Devices" *J. Mater. Chem. C*, 11, 7629-7640,
13. Musfica Sultana, Saumya R. Mohapatra, Md. Ahmaruzzaman (2023) "A novel porous and highly efficient Fe-Ce-Co nanoparticles anchored in biochar derived from coconut husk for photo-Fenton degradation of binary mixtures of dyes" *Environmental Nanotechnology, Monitoring & Management*, 20, 100901.
14. Dehingia, A., Shabir, A., Das, U., Borgohain, K. K., Patra, S., Sarkar, P. K. & Roy, A. (2023) "Alkali metal ion-mediated augmented carrier extraction in iodobismuth ternary perovskite-based photovoltaic device. *ACS Applied Electronic Materials*" 5(10), 5332-5342. <https://doi.org/10.1021/acsaelm.3c00133>
15. Das, N. S., Jana, R., Roy, A., & Chowdhury, A. (2023) "MoS₂-functionalized conductive carbon heterostructure embedded with ferroelectric polymers for bipolar memristive applications. *Semiconductor Science and Technology*" 38(6), 065003. DOI 10.1088/1361-6641/acd022
16. Dehingia, A., Shabir, A., Tan, C. M., Gogoi, H. P., Das, U., & Roy, A. (2023) "Compositionally engineered vacancy-ordered double-perovskite nanocrystals for photovoltaic application. *Journal of Alloys and Compounds*" 967, 171706. <https://doi.org/10.1016/j.jallcom.2023.171706>
17. Dehingia, A., Ota, S., Deb, R., Das, U., & Roy, A. (2023) "Effect of RF-sputtering temperature of ITO electrodes on the resistive switching behaviour of ITO/RbPbI₃/Cu devices. *Physica Scripta*" 98(11), 115917. DOI 10.1088/1402-4896/acfc8b
18. Dehingia, A., Das, U., & Roy, A. (2023) "Heterovalent tin ion-regulated bromobismuth double perovskite-based fully-inorganic solar cells" *Journal of Materials Chemistry C*, 11(43), 15347-15356. <https://doi.org/10.1039/D3TC02750C>
19. Dehingia, A., Das, U., Mandal, D., & Roy, A. (2023) "Application of Ti₃C₂T_x Mxene nanosheets and quantum-dots in halide perovskite solar cells" *Materials Today Sustainability*, 100619. <https://doi.org/10.1016/j.mtsust.2023.100619>
20. Das, U., Mishra, H. K., Mallick, Z., Gupta, V., Dehingia, A., Roy, A., & Mandal, D. (2023). Insight of the high switching window and data retention in lead-free 2D layered double perovskite resistive memory device. *Applied Physics Letters*, 123(20). <https://doi.org/10.1063/5.0174804>
21. Prasenjit Dhar, K. Suganya Devi, Satish Kumar Satti and P. Srinivasan (2023) "An hybrid soft attention based XGBoost model for classification of poikilocytosis blood cells" *Evolving Systems*, 11, 2118-2129. <https://doi.org/10.1080/21681163.2023.2219755>
22. Prasenjit Dhar, K. Suganya Devi, P. Srinivasan, (2023) "CNN-RSVM: a hybrid approach for classification of poikilocytosis using convolutional neural network and radial kernel basis support vector machine" *Computer Methods in Biomechanics and Biomedical Engineering Imaging & Visualization*, 11, 2118-2129. <https://doi.org/10.1080/21681163.2023.2219755>



23. Sekar K., Suganya Devi K., Satish Kumar Satti and P. Srinivasan (2023) "EEEDCS: Enhanced energy efficient distributed compressive sensing based data collection for WSNs" Sustainable Computing: Informatics and Systems, 100871, ISSN 2210-5379. <https://doi.org/10.1016/j.suscom.2023.100871>.
24. Shubam Patel, Narayan Mohanta, Snehasish Nandy, Subhendra D. Mahanti and A. Taraphder (2024) "Layer-dependent electronic structures and magnetic ground states of polar-polar $\text{LaVO}_3/\text{KTaO}_3$ (001) heterostructures" Phy. Rev. B 110, 054402 <https://doi.org/10.1103/PhysRevB.110.054402>
25. Pankaj Chaturvedi, Utkarsh Kumar, Udaykrishna Thattarampilly, Vishnu Kakkat (2024) "Exact rotating black hole solutions for $f(R)$ gravity by modified Newman Janis algorithm." The Eur. Phys. Jour. C C (2023) 83:1124 <https://link.springer.com/article/10.1140/epjc/s10052-023-12306-z>.

b) International Conference(s):

1. Pujita Ningthoukhongjam, Ranjith G. Nair (2023). "Role of titania photoanode phase on the performance of the Dye Sensitized Solar Cell." IEEE Silchar Subsection Conference (SILCON), NIT Silchar. <https://doi.org/10.1109/SILCON59133.2023.10404856>
2. Nisha Banerjee, Tusar Rakshit, Ranjith G. Nair (2023). "Performance engineering of SnO_2 -based dye-sensitized solar cells through optimization of dye loading and film thickness" IEEE Silchar Subsection Conference (SILCON), NIT Silchar. <https://doi.org/10.1109/SILCON59133.2023.10404444>
3. S. Dutta, J. Maity, S. R. Mohapatra and M. Khanra (2024). "Impedance Measurement Technique for Vehicle Battery Health Assessment Using On-Board CAN Signals" IEEE 3rd International Conference on Control, Instrumentation, Energy & Communication (CIEC), Kolkata, 378-383.
4. Prasenjit Dhar, Suganya Devi K., Sekar K. and Srinivasan P. (2023) "Morphology of Red Blood Cells Classification using Deep Learning Approach" IEEE Third International Conference on Technology, Engineering, Management for Societal impact using Marketing, Entrepreneurship and Talent (TEMSMET), Vidya Vikas Institute of Engineering & Technology, Mysuru, India, 2023, pp. 1-6, <https://doi.org/10.1109/TEMSMET56707.2023.10150054>

c) National Conference(s):

d) Book/Chapter:

1. Trinayana Deka, SK Nikhil, Pujita Ningthoukhongjam, Suma Das and Ranjith G. Nair (2021). "Recent Advances in 1D and 2D ZnO Nanostructure-Based Photosensors" Nanoscale Matter and Principles for Sensing and Labeling Applications (pp. 143-164). Springer, Singapore.
2. Sekar K., Suganya Devi K., Dheepa T. and Srinivasan P., (2023) "Chemosensors/Bioimaging Applications" Book: Schiff Base Metal Complexes: Synthesis and Applications, First Edition (Eds.) Pranjit Barman and Anmol Singh, WILEY-VCH GmbH. <https://www.wiley.com/en-us/9783527350704>



1.6 CONSULTANCY SERVICES:

1.7 MAJOR EQUIPMENT ACQUIRED:

- Gas Chromatography (Trace-1110).
- Electrospinning Unit (Model: Super ES-2), Serial Number: SES2B2309M24#36M.

PATENT:

Sl. No.	Details	Year
1	Selective Harvesting Glove Set with Force Sensitive Memory Materials for Gentle Fruit Harvesting (Patent Filed) Inventors: Dr. P. Srinivasan, Dr. Bibhuti Ranjan Bhattacharjya, Dr. Suganya Devi K, Divagar S, Sreehari S, Kintali Manohor Prasad	2024, Patent No. IN202431015582
2	A Cartridge-Type Fixed-Mode Continuous-Flow Photocatalytic Reactor System for Efficient Wastewater Treatment (Patent Filed) Inventors: Nikhil Satheesh Kumar, Pujita Ningthoukhongjam, Abani Mahakur, Dr. Ranjith Govindankutty Nair	2024, Patent No. IN202431024949

1.9 VISITS TO ABROAD

Sl.No	Name of the Faculty	Name of the Conference/ Programme	Place	Date
NA	NA	NA	NA	NA

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

Sl. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project
45.	Mr. Tusar Rakshit	Ranjith G. Nair	Characterization and Predictive Modelling of Compression Index for A Site in Southwest Delhi District, India
46.	Mr. Somil Sahu	Ranjith G. Nair	Solving The Chip Component Placement Optimization Problem Using Hybrid Classical Quantum Machine Learning
47.	Mr. Abani Mahakur	Ranjith G. Nair	Development and Testing of an Indigenous Continuous Fixed Mode Photocatalytic Reactor for Waste Water Treatment
48.	Ritwik Roy	Dr. Rupak Dutta	Dirac equation and its solution.



49.	Amhono Kere	Dr. Rupak Dutta	Review on neutrino oscillation.
50.	Divyansh Tak	Dr. Rupak Dutta	Review of discrete symmetries and CKM quark mixing matrix.
51.	Soumya Sweta Bhujabal	Dr. Subhasis Panda	First principle study of c- Na_3PS_4
52.	Namrata Das	Dr. Subhasis Panda	Ab-initio study of topological insulator ($\text{R}_3\text{m-Bi}_2\text{Te}_3$) using Wien2k
53.	Gyanranjan Swain	Dr.Saumya R. Mohapatra	Prospects of Copper-ion Conductive Polymer Electrolyte based on Copper (II) triflate for Resistive Switching Memory
54.	Arpan Kumar Goswami	Dr.Saumya R. Mohapatra	A Comparative Study of Sulfide based Sodium Solid Electrolytes Prepared via Solid & Liquid Phase Method for Sodium-ion Battery
55.	Krushna Chandra Senapati	Dr.Saumya R. Mohapatra	Review on Strategies for Modification in MnO_2 for Improved Cycle Stability in Zn-Ion Batteries
56.	Sayandeep Dutta	Dr.Saumya R. Mohapatra	Effective Online Health Estimation of Batteries in Electric vehicles
57.	Subhradip Sarkar	Prof.Asim Roy	Growth and Characterization of ITO Thin Film on Glass Substrate
58.	Shivanand Das	Prof.Asim Roy	Synthesis and Characterization of Thermally Reduced Graphene Oxide and Their Application in Resistive Memory Devices
59.	Teresa Tomy	Dr. P. Srinivasan	A Deep Learning Model to Predict Lung Cancer from Chest CT Scan Images
60.	Shivam Gupta	Dr. P. Srinivasan	Crystal Growth and Characterization of 2 Cyanopyridine Perchlorate
61.	Pallav Kumar Nath	Dr. P. Srinivasan	Single Crystal Growth of Vanillylideneaniline (VAN) by Slow Evaporation Method
62.	Nishant Mishra	Dr. P. Srinivasan	Single Crystal Growth of 2,4,6 – Trinitro Phenol Using Solution Growth Technique
63.	Prakarshi Avlani	Dr. Subrat Kumar Barik	Cyclic Cosmology and Geodesic Completeness

1.11 Ph.D. Thesis

Sl. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis
NA	NA	NA	NA

1. Name of the Department:

Chemistry



Academic Staff: HEAD: Prof. Md Ahmaruzzaman, Professor

Name of Faculty members:

Professor	Associate Professor	Assistant Professor
Prof. Siddhartha S Dhar	Dr. Ruma Rano	Dr. N Shaemningwar Moyon
Prof. Md Ahmaruzzaman	Dr. Samuel Lalthazuala Rokhum	Dr. Biswa Nath Ghosh
Prof. Pranjit Barman		Dr. Shanti Gopal Patra
		Dr. Papri Sutar

Visiting Professor (If any): N

1.1 Distinction Achieved

a) By Student:

Dr Bappi Paul	Vigyan Yuva Shanti Swarup Bhatnagar Award in Environmental Science for the year 2024
Mrs Supongsena Ao	received the Fulbright Fellowship 2024 to study in Tennessee University USA



Mr. Joseph VL Ruatpuia	received Commonwealth Fellowship (2024) to carry out research at Department of Chemistry Cambridge University UK

b) By Faculty Member:

Name of the Faculty	Name/Nature of the Award
Prof. M A Zaman	1. Ranked in the world's top 2 % scientists by Stanford university. 2. Best Scientist in National Institute of Technology Silchar by AD Scientific Index 2022. 3. Fellow of the Royal Society of Chemistry
Dr. S. L. Rokhum	Ranked in the world's top 2 % scientists by Stanford university.

1.2 Seminars, Symposia, Short Term Courses, Workshops

a) Conducted by Faculty Member: NIL

b) Participated by Faculty Member:

Sl. No.	Name of Faculty	Details of the Program	Organizing Institute
1.	Dr. S. L. Rokhum	International Society for Energy, Environment and Sustainability (ISEES).	Indian Institute Technology (BHU) Varanasi, India
		Recent Advances in Materials Chemistry and Catalysis (RAMCC-2023)	Department of Chemistry, Dibrugarh University, India
		Recent Trends in Green and Sustainable Chemistry	Department of Chemistry, Pachhunga University College, Mizoram University, Aizawl, Mizoram
2	Dr. S. G. Patra	International Conference on Emerging Trends in Catalysis & Synthesis 2024, 07th to 09th March, 2024	Department of Chemistry, IIT Kharagpur
		National Seminar on Recent Trends in Chemical Research (RTCR-2024), 20th August 2024	Department of Chemistry, Assam University,
3.	Dr. Papri Sutar	National Seminar on Recent Trends in Chemical Research (RTCR-2024), 20th August 2024	Department of Chemistry, Assam University, Silchar

1.3 Research Development

a) Ph.D. Programme (Specializations):

- Development of newer synthetic methodologies



- Regioselective C-S coupling
- Synthesis of Schiff-Base and their photophysical, biological, and catalytic application in organic transformations
- Microbial Analysis
- Environmental Science and Pollution Research
- Synthesis and design of Organic solar cell
- Selected Nanostructured materials as catalysts/photocatalysts in organic transformation reactions and environmental remediation
- Energy and Environment
- Green Synthesis, Organo-Sulfur compounds, Schiff Base, Metal Complexes, Organic Synthesis
- Synthesis of nanocomposites for environmental remediation
- Synthesis and applications of transition metal complexes of nitrogen-based heterocyclic ligands
- Nanomaterials from solid waste for potential applications in photocatalysis, nanoelectronics, sensor, etc.
- Photophysical and photochemical processes of organic fluorophores in homogeneous and heterogeneous environments using fluorescence spectroscopy; protein-ligand interaction.
- Computational chemistry, aromaticity, reaction mechanism, magnetism, electrocatalysis, sustainable development of energy.
- Graphitic carbon nitride, hydroxyapatite and metal organic framework-based nanocomposites for environmental remediation and hydrogen evolution reaction.
- Supramolecular Chemistry, organic-inorganic hybrid, metallosupramolecular polymers, aqueous self-assembly and co-assembly, pathway complexity, coordination polymer gel.

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

Completed	Submitted	Ongoing
05	05	39

c) Research Lab/ Workshop:

Sl. No.	Name of Lab/Workshop	Purpose/Linkage to an existing/new programme

d) Ongoing/Completed Sponsored Research Project:

Sl. No.	Project Title	Principal Investigator (s)	Funding Agency	Cost in Rupees	Duration
1	"Sustainable Energy Systems for Achieving Novel Carbon Neutral Energy Communities "SUSTENANCE"", DST-European Union (EU) under Mission	P.I: Dr. Asha Rani M A Co-PI: Prof. Pranjit Barman	DST (Indo-EURO)	1504.4 Lakhs,	2021-2025



	Innovation(MI), HORIZON 2020, July 2021; Role-PI,				
2	Defect-engineered Acid-Functionalized Monolithic Metal-Organic Frameworks as a Heterogeneous Catalyst for Biodiesel Production Production Grant No. 01/3099/23/EMR-II	Dr. Samuel Lalthazuala Rokhum	CSIR	20,52,000.00	2023-2025
3	Engineered superhydrophobic biomass-derived organo-catalysts for biodiesel production: Process optimization using response surface methodology, kinetic studies and cost-analysis Grant No. EEQ/2023/000336	Dr. Samuel Lalthazuala Rokhum	SERB	46,82,830.00	2023-2025
4	Development of Nano-structured Materials for Energy Production and Environmental Remediation Grant No. SR/FST/CS-I/2022/275		DST-FIST	151,00,000	2022-2027

e) **Research Paper Reviewed**

Sl. No.	Faculty Name	Journal Name	No of Paper	Year
1	Prof. M A Zaman	International Journal of Environmental Analytical Chemistry	7	2023-2024
		Coordination Chemistry Reviews	1	
		Inorganic Nano-Material Chemistry	1	
		International Journal of Environmental Science and Technology	1	
		Environmental Science and Pollution Research	1	
		Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry	1	
		Materials Advances	3	
		Industrial and Engineering Chemistry Research	3	
		Environmental Research	1	
		Biochar	1	
		Journal of Environmental Chemical Engineering	1	
		Chemistryselect	1	
		Biomass Conversion and Biorefinery	3	
		Environmental Pollution	1	
		Journal of Environmental Management	1	
		RSC Advances	3	
		Nanotechnology for Environmental Engineering	3	
		Sustainable Chemistry for Climate Action	1	
		Journal of Physics and Chemistry of Solids	1	
		Separation and Purification Reviews	1	
		Materials Letters	1	



		Nucleosides, Nucleotides & Nucleic Acids	1	
		Journal of Inorganic and Organometallic Polymers and Materials	1	
		ACS Catalysis	1	
		Langmuir	1	
		nPJ Clean water	1	
2	Prof. S S Dhar	Journal of Alloys and Compounds	2	
		Chemistry select	2	
		New Journal of Chemistry	3	
		NPJ Clean Water	1	2023
3	Prof. Pranjit Barman	Journal of Molecular Structure	6	
		Inorganic Chemistry Communication	9	
		Polyhedron	8	
		New Journal of Chemistry	2	
		Journal of the Indian Chemical Society	1	
		Applied Organometallic Chemistry	1	
		Chemical Physics Impact	1	
		Chemistry Select	3	
		Results in Chemistry	1	
		Spectrochimica Acta- Part A	1	
		Journal of Molecular Liquids	1	
		Asian Journal of Organic Chemistry	1	
4	Dr. S. G. Patra	Computational and Theoretical Chemistry	2	
		Chemical Physics Letters	1	
		Polyhedron	4	
		Journal of Molecular Structure	4	April 2023 – March 2024
5.	Dr. Papri Sutar	Gel	2	
		ACS applied Materials and Interfaces	1	2024

f) Chairing of Technical Section : Nil

1.4 PUBLICATIONS

a) International Journal(s):

- Hassan Barbhuiya, Ritu Kundu, Siddhartha S Dhar, MoO₃/HAp nanocomposites encapsulated in Graphene Oxide nanoparticle: Development of a novel ternary nanostructure and evaluation of its photocatalytic activity for the treatment of wastewater in environmental remediation, Materials Chemistry and Physics, 328, (2024)129945.
- Prakash Kurmi, Debarati Chakraborty, Linkon Bharali, Juri Kalita and Siddhartha S Dhar Activation of Peroxymonosulfate using a novel heterogeneous catalyst SO-gCN@ZIF-



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179. A.H. Udaya Kumar, K.J. Pampa, N.r V. Harohally, D. Das, B. N. Ghosh, N.K. Lokanath, Structural studies of Schiff base ligand and its copper complexes: Solvents effect in 1-D polymeric and monomeric copper (II) complexes, computational and sensing



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181. Udaya Kumar A. H., Pampa K. J., Mahesha, Nanishankar V. Harohally, Dipankar Das, B. N. Ghosh and Lokanath N. K., Structural and computational studies of Schiff base ligand and its metal complexes: synthesis, solvent effects by post-synthetic modification, and computational and selective hazardous sulfide anion detection, *Polyhedron*, 2023, 243, 116521.
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185. Patra, S. G. Asymmetric Catalysis by Chiral FLPs: A Computational Mini-review. *Chirality* 2024, 36 (5). <https://doi.org/10.1002/chir.23671>.
186. Gopal Patra, S.; Kumar Chattaraj, P. Three Coordinated First Row-Transition Metal Complexes, [M{N(SiMe₃)₂}₃]-1/0: Structure, Bonding, and Magnetic Properties. *Polyhedron* 2024, 256, 116990. <https://doi.org/10.1016/j.poly.2024.116990>.
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190. P. Sutar, I. Maisuls, Z. Fernandez, C. A. Strassert, G. Fernandez, *Chem. Eur. J.* 2024, e202403287.

a) **National Journal(s): NIL**

b) **International Conference(s):**

1. Roy, S., Darabdhara, J., & Ahmaruzzaman, M. (2023). Metal oxide-Cu (based) Metal Organic Framework (MOF) Nanocomposite for Boosting and Tuning the Visible Photocatalytic Degradation Performance for Wastewater Treatment. Poster Presentation: International Conference on “Recent Advances in Materials Chemistry and Catalysis”- 1-3 March, 2023
2. Facile fabrication of ZnS/MoO₃/dia(Zn) MOF photocatalyst for efficient degradation of triarylmethane dye under solar light irradiation, (2023) A. Bhuyan, & M. Ahmaruzzaman. *Conference Topics: Catalysis for water treatment, Photo/Electro Catalysis*. International Conference on Advances in Materials, Ceramics, and Engineering Sciences (AMCES-2023) Dayananda Sagar College of Engineering.
3. S.R. Mishra & Md. Ahmaruzzaman, bioinspired In₂S₃ anchored on a fish scale-derived three dimensional-hydroxyapatite for the adsorption of methyl red: experimental study and theoretical modeling via statistical physical method, advances in materials, ceramics and engineering sciences, (AMCES – 2023), Dayananda Sagar College of Engineering.
4. S.R. Mishra, V. Gadore, Md. Ahmaruzzaman, Green Chemistry at Its Finest: Insights into the Photocatalytic Performance of Neem-derived In₂S₃ Quantum Dots, Fourth International Conference on Material Science, (ICMS2024), Tripura University.
5. S.R. Mishra, V. Gadore, Md. Ahmaruzzaman, Advances in Sustainable Water Treatment: Photocatalytic Removal of Pharmaceuticals from Wastewater with Biochar-Based Nanocomposites, International Conference on Water Resources, Ocean and Environmental Engineering (ICWROEE 2024), National Institute of Technology Silchar.
6. Gadore, V., Mishra, S.R. and Ahmaruzzaman, M., Green Synthesis of Novel Z-Scheme SnS₂/HAp Photocatalyst and Investigation of its Photocatalytic Activity via Advanced Oxidation Process, Fourth International Conference on Material Science, (ICMS2024), Tripura University.



7. Gadore, V., Mishra, S.R. and Ahmaruzzaman, M., Advances in Zinc Sulphide-based Photocatalysts for Dye Removal: A Review, International Conference on Water Resources, Ocean and Environmental Engineering (ICWROEE 2024), National Institute of Technology Silchar.
8. Jayanta Kumar Kar, Ruma Rano and Saurabh Chaudhury, "Optoelectronic Properties of Ag-Au Co-Doped LiNbO₃ Studied by First-Principles Generalized Gradient Approximation + U Approach", IEEE Int. Conference, IEMEN Tech 2023, Kolkata.
9. Ruma Rano and Naseef Sha P "Alumino-Silicous and Magnetic Materials: The Novel Value Added Components Derived from Indian Flyash" International Conference on Nanotechnology, Renewable Materials Engineering & Environmental Engineering (ICNRMEEE-2024) Venue: Puri, India: March 30TH, 2024

c) **National Conference(s): NIL**

1. Efficient photodegradation of cationic and anionic dyes in an aqueous medium using a Layered double hydroxide (LDH) modified MOF-5 photocatalyst prepared via an ultra-sound assisted method, (2023) A. Bhuyan, & M. Ahmaruzzaman. *Conference Topics: Environmental Chemistry*. National Conference on Advanced Research in Chemical Sciences, ARCS-2023, Assam University, Silchar, Assam.
2. Visible light-driven photocatalytic degradation of Rose Bengal and Methylene Blue using low-cost saw dust derived SnO₂ QDs@g-C₃N₄/biochar composite (2023) B. Bhattacharjee & M. Ahmaruzzaman. *Conference Topics. Environmental Chemistry*, National Conference on Advanced Research in Chemical Sciences, ARCS-2023, Assam University, Silchar, Assam.

d) **Book/Chapter: 02 (dhar)**

1. Roy, S. and Ahmaruzzaman, M., 2024. Application of nanoceramic-based composites in wastewater treatment. In *Industrial Applications of Nanoceramics* (pp. 395-409). Elsevier.
2. Barman, P., & Singh, A. (Eds.). (2023). *Schiff Base Metal Complexes: Synthesis and Applications*. John Wiley & Sons.
3. Bishwajit Changmai, Kankana Saikia, Samuel Lalthazuala Rokhum (2023). Nanostructured catalysts in biodiesel production. In book *Nanotechnology for Biorefinery*. 307-322. Elsevier. DOI: <https://doi.org/10.1016/B978-0-323-95965-0.00003-2>



4. Arpita Das, Samuel Lalthazuala Rokhum (2024). Renewable diesel and biodiesel: a comparative analysis. Renewable Diesel, Value Chain, Sustainability, and Challenges, 123-166. Elsevier. DOI: <https://doi.org/10.1016/B978-0-323-91153-5.00002-9>
5. P. Sarkar, S. Sutradhar, B. N. Ghosh, Book Chapter 14: Application in Pharmacological Field in the book: [Schiff Base Metal Complexes: Synthesis and Applications](#), Wiley, 2023, pp129-147.
6. S. Sutradhar, S. Mondal, B. N. Ghosh, Book Chapter 11: Available Synthesis Methods of Green Nanomaterials, Their Properties, and Characterization, Book: Nanomaterials: The Building Blocks of Modern Technology, Springer Nature, 2023, p211-229.
7. Jha, R.; Patra, S. G.; Chakraborty, D.; Chattaraj, P. K. A Conceptual DFT Analysis of Mechanochemical Processes. In Electron Density; Wiley, 2024; pp 355–378. <https://doi.org/10.1002/9781394217656.ch19>.
8. Poddar, A.; Pal, R.; Patra, S. G.; Chattaraj, P. K. Quantitative Structure-Activity Analysis Using Conceptual DFT and Information Theory-Based Descriptors; 2025; pp 91–111. https://doi.org/10.1007/978-3-031-67841-7_5.

1.5 CONSULTANCY SERVICES: NIL

1.6 Major Equipment Acquired: NIL

1.7 Patent: NIL

1.8 Visits to Abroad:



1.9 M. Sc. (Project)

Sl. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project
1	Adrija Bose Sch ID: 21-47-107	S S Dhar	Synthesis of Co-Hap@CuWO ₄ nanocomposites and investigation of its photocatalytic activity towards degradation of eosin yellow
2	Shrayoshi Das Sch ID: 21-47-105	S S Dhar	Synthesis and Characterization of Aluminium Doped Graphitic carbon Nitride Functionalized Ionic Liquid Catalyst and its Application for the Synthesis of 5-Hydroxymethyl Furfural and Photocatalytic Degradation of Brilliant Green Dye
3	Annewsha Chakraborty	Prof. M. A. Zaman	Synergistic Photocatalytic Activity of Citrus fruit peel derived Biochar supported Mn-doped Calcium Ferrite for Rhodamine B dye degradation
4	Khadiza Begum	Prof. M. A. Zaman	Fabrication of visible light active SnO ₂ /ZnO@MIL-101(Fe) core-shell heterojunction for the photocatalytic removal of azo dyes
5	Biswaranjan Panigrahi	Prof. M. A. Zaman	Enhanced photocatalytic performance of CuS/O,N-CNT composite for solar-driven organic contaminant degradation
6	Nityananda Sarkar	Prof. M. A. Zaman	Exploring Oxygen-Doped g-C ₃ N ₄ Supported NiS Nanocomposites for Enhanced Photocatalytic Removal of Contaminants from Aqueous Medium
7	Sethulekshmi R	Prof. Pranjit Barman	Copper Complex of an Asymmetric Hydrazine-Based Bis Schiff base and its application in catalytic decomposition of H ₂ O ₂ and photocatalytic degradation of Methylene Blue(2023)
8	Arathi Krishnan	Prof. Pranjit Barman	Synthesis, characterization, and DNA binding activity study of Cu(II) and Ni(II) complexes of a Schiff base ligand(2023)
9	Abhishek Murlidhar Choudhari	Dr. N. Shaemningwar moyon	Comparative Study on Interaction of Pexidartinib with Human and Bovine Serum Albumin
10	Gyathri K Suresh	Dr. Biswa Nath Ghosh	A Comparative Study and Morphological Analysis of Copper-Specific Triggered Hydrogelation of Chloro Substituted Terpyridine as a Gelator
11	Devu Prakash	Dr. Biswa Nath Ghosh	A simple dppy-based copper complex for selective sensing of L-Cystein in aqueous acetonitrile medium
12	Sonali Palo	Dr. Biswa Nath Ghosh	Synthesis and characterization of a novel dppy-based zinc-complex and its application in protein binding
13	Subhasmita Das	Dr. Samuel Lalthazuala Rokhum	Green synthesis of CaO nanaocatalyst using watermelon peels for biodiesel production
14	Ananya Satapathy	Dr. Samuel Lalthazuala Rokhum	Sustainable production of biodiesel using banana peel extracted mediated highly basic heterogeneous nano catalyst
15	Aditya Prasad Jati	Dr. Samuel Lalthazuala Rokhum	Psidium guajava L (guava leaves) derived functional activated carbon as a heterogeneous catalyst for



			conversion of Jatropha curcas oil to biodiesel
16	Mushaidd Ahmed	Dr. Samuel Lalthazuala Rokhum	Green synthesis of SEPAC catalyst using Chayote peels for biodiesel production
17	Sudeshna Ghorui	Dr. Samuel Lalthazuala Rokhum	Engineered Biomass waste derived activation Biochar catalyst for biodiesel production from Jatropha curcas oil.
18	Prakhar Dwivedi	Dr. Samuel Lalthazuala Rokhum	Biodiesel production from ZnCl ₂ activated highly porous paper waste-derived biochar catalyst: Study on life cycle cost analysis and kinetics

1.10 Ph.D. Thesis:

Sl. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis
1	Shaswat Vikram Gupta	Prof. M. A. Zaman	Fabrication of Ceria (CeO ₂) based hetero-structures as an adsorbent/photocatalyst for removal of hazardous dyes from wastewater discharge
2	Nidhi Yadav	Prof. M. A. Zaman	Development of Biomass Based Heterogeneous Catalysts to Derive Biofuel and Fuel Additives: Characterization, Optimization, and Mechanistic Insights
3	Bishal Das	Prof S S Dhar	Modification of Graphitic Carbon Nitride for Sustainable Photocatalysis towards Environmental Remediation and Hydrogen Evolution Reaction
4	Debarati Chakraborty	Prof S S Dhar	Ionic liquid-linked Nano-hybrid Catalyst for Environmental Remediation and Organic Transformation Reactions
5	Dr. Anmol Singh	Prof. Pranjit Barman	Studies on Schiff Base Metal Complexes and their Applications: Experimental and Theoretical (2023)

1. Name of the Department:

Humanities and Social Sciences



The Department at a glance	
Year of Establishment: 1977	
Academic Programmes Offered:	
● Doctor of Philosophy (Ph.D.)	
Total Faculty Strength: 09	
● Professor: 2 ● Associate Professor: 2 ● Assistant Professor: 5	
Total Student Strength: 30	
● Ph.D.: 30	
New Students Joined in 2023-2024: 15	
● Ph.D.: 15	



1.1 Academic Staff:

HEAD of the Department: Prof. N. B. Singh

Name of Faculty members:

Professor	Associate Professor	Assistant Professor
Prof. Gurudas Das	Dr. Reena Sanasam	Dr. Ujjal Protim Dutta
Prof. N. B. Singh	Dr. Avishek Ray	Dr. Dinamani Biswal
		Dr. Shashi Kumar G.
		Dr. Panchali Bhattacharya
		Dr. Sumallya Mukhopadhyay

Visiting Professor(If any):

1.2 Distinction Achieved

a) By Student:

b) By Faculty Member:

Dr. Avishek Ray:

- Research Fellowship at the Centre for Modern Art and Theory, Masaryk University, Brno, Czech Republic (Feb 2024)
- Delivered invited lectures at: a) Department of Sociology, University of Hyderabad (online); b) Department of Media Studies, Christ University; and c) Department of Indology, University of Tübingen, Germany
- Monograph, *The Vagabond in the South Asian Imagination: Representation, Agency & Resilience* (Routledge), featured in South Asia Specialist Group book talk series organized by Political Studies Association (UK)

Dr. Sumallya Mukhopadhyay:

- Awarded 'Distinction in Doctoral Research' for the academic year 2022 in February 2024 by the Indian Institute of Technology (IIT) Delhi, India



1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS

a) Conducted by Faculty Member

Sl. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1.	Avishek Ray	Digital Infrastructures and Contemporary Urbanities in India 2.0 at NIT Silchar	Indian Council of Social Science Research (ICSSR)	8-9 March 2024
2.	Avishek Ray	Digital Infrastructures and Contemporary Urbanities at NIT Silchar	United States-India Educational Foundation (USIEF)	15-16 Sep 2023
3.	N. B. Singh	Academic Writing	National Institute of Educational Planning and Administration (NIEPA)	13-16 Feb 2024

b) Participated by Faculty Member

Sl. No.	Name of Faculty	Details of the Program	Organizing Institute
1.	Avishek Ray	International workshop on Fragments, Traces, Memories/ 9-10 October 2023 (online)	Center for Theoretical Study, Charles University and the Czech Academy of Sciences
2.	Avishek Ray	(With Lin Song) The 20th Chinese Internet Research Conference (CIRC) on The Chinese Internet in the Global South: Flows, Frictions, and Futures/ 12-14 July 2023 (online)	Chiang Mai University
3.	Avishek Ray	International Conference on Beyond Comparison: Towards a Connected Philology, organized by IDK Philology/ 14-16 June 2023	LMU Munich & the Carl Friedrich von Siemens Foundation
4.	Sumallya Mukhopadhyay	Academic Writing	NIT Silchar
5.	Sumallya Mukhopadhyay	Exploring Pastoral Life-Worlds	North-Eastern Hill University (NEHU), Shillong
6.	Panchali Bhattacharya	Academic Writing	NIT Silchar



1.4 Research Development

a) Ph.D. Programme (Specializations):

Microeconomics, Environmental Economics, Agricultural Economics, Rural Development, Behavioral Economics and Public Policy, Open-Economy Macroeconomics, Financial Economics, Health Economics, Applied Econometrics	1947 Partition Studies, Oral History, Memory Studies, Translation Studies, Literary Historiography, Colonialism and Postcolonialism, North East Indian literature, Eco-literature, Indigenous Studies and Women's Writing

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

Completed	Submitted	Ongoing
NIL	NIL	30

c) Lab / Workshop: Nil

d) Ongoing/Completed Sponsored Research Project:

Sl. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1.	Canonization of Partition Literature and the Politics of Memorialization in South Asia	Avishek Ray & Anne Murphy	MoE's SPARC	62	2023-25
2.	Digital Expression of the Self(ie): Photographic Performativity in Contemporary India (Completed)	Avishek Ray & G. E. Dattatrayan	MoE's SPARC	60	2019-23

e) Research Paper Reviewed

Sl. No	Faculty Name	Journal Name	No. of Paper	Year
1.	Reena Sanasam	Asian Ethnicity	2	2024
2.	Dinamani Biswal	Progress in Disaster Science & International Studies in Economics	2	2024
3.	N. B. Singh	Asian Ethnicity	1	2023



4.	Panchali Bhattacharya	Interdisciplinary Studies in Literature and Environment South Asian Review	2	2024

f) Chairing of the Technical Session

Sl. No.	Faculty Name	Details
1.	Reena Sanasam	Chaired a Technical Session at the Three Day International Conference on “Postmodernism: Unravelling Culture and Identity”, organized by the Department of Management, Humanities and Social Sciences, NIT Agartala, from 18 th to 20 th December 2023.
2.	Reena Sanasam	Chaired Two Technical sessions at the Two Day National Seminar on “Northeast Culture, Literature, Language, and Education: A Multi-Disciplinary Approach”, organized by the Department of English and Cultural Studies, Manipur University, Canchipur. during 1-2 nd March 2024
3.	Dinamani Biswal	Three-Day Workshop on Research Methodology in Social Sciences Organized by the Department of Economics, Rangia College, Kamrup, Assam In collaboration with IQAC Rangia College

1.5 PUBLICATION

a) Journal(s):

1. Avishek Ray. (2024). “Decolonizing Travel(ing Theory): Vernacular Travels in (Post)Colonial India.” *Cultural Critique*, 124, 164-176.
2. Avishek Ray (with S. Dutta & R. Dudrah), ‘Introduction’ to the special issue on ‘Digital Humanities: Cultures, Identities, and Selfhood in the Subcontinent’, in *South Asian Popular Culture*, Vol. 21:3, pp. 257-271.
3. Avishek Ray (with Gabriel Dattatreyan, Martin Webb, Usha Raman), ‘Expressing the (in)dividual: social media and technologies of the self’; Introduction to a special thematic section on ‘Digital Expressions of the Self’, in *Convergence: The International Journal of Research into New Media Technologies*, Vol. 29:6 (2023), pp. 1417-1421.
4. Avishek Ray (with S. Kar), ‘The Constituency of Digital Humanities in India’, in *South Asian Popular Culture* in special issue on ‘Digital Humanities: Cultures, Identities and Selfhood in the Subcontinent’, Vol. 21:3 (2023), pp. 273-278.



5. Avishek Ray (with Lin Song), “How Can a Small App Piss Off an Entire Country?” India’s TikTok Ban in the Light of Everyday Techno-Nationalism’, in *Inter-Asia Cultural Studies*, Vol. 24:3 (2023), pp. 382-396.
6. Reena Sanasam (with Pankaj Kalita), “Aesthetics of Characterization in Asian and European Homophile Cinematic Literature: A Comparative Fractionation” in *Gradiva Review Journal*, vol.62, no.12, December 2023, 57-82.
7. Reena Sanasam (with Pankaj Kalita), “Simulacrum of Biological Malady HIV+AIDS in the Indian Queer Movie MY Brother Nikhil: A Panoramic Surveillance,” *African Journal of Biological Sciences*(South Africa), vol.6, no. 1, 2024.
8. Dinamani Biswal (with N.R. Mishra and P. Tripathy). “Extraction of Coal and local peoples’ health outcomes: Evidence from Talcher Coal-field of Odisha, India.” *Journal of Health Management*(Forthcoming, Issue 4, 2024).
9. Sumallya Mukhopadhyay. (2023). *A Reading of Violence in Partition Stories from Bengal*. Summerhill: IAS Review, 28(2): 92-93. [<http://14.139.58.200/ojs/index.php/summerhill/article/view/1531>]

b) International Conference(s):

1. Reena Sanasam (with Isha Mahato) presented a paper titled “Indian Travel Writings on Territorial Decentralization: Analyzing Across the Chicken Neck by Nandita Haksar” at the One Day International Conference on *Negotiating Lives: Migration, Displacement, And Resistance in Post Colonial Nation-State*, organized by the Department of English, Midnapore College, India on 26th August 2023.
2. Reena Sanasam (with Neha Jain) presented a paper entitled, “Rediscovering the Monolith in Digital Worlds: 2001: A Space Odyssey (1968) and Ready Player One” at the Two Day Workshop on Digital Infrastructures and Contemporary Urbanities, organized by the Department of Humanities and Social Sciences, NIT Silchar from 15 to 16th September 2023.
3. Dinamani Biswal presented a paper titled “Enhancing Farmers’ Resilience Capacity to Climate Change in India: Analysing Intensification of Crop Insurance Adoption” at the INSEE International Conference on *SDGs and Climate Change: Understanding the Imperatives and Intersections*, organized by BML University, Haryana, India from 31 January to 03 February 2024.
4. Panchali Bhattacharya presented a paper titled “Eco-sustainability through Green Lore: A Study of Contemporary North East Indian Indigenous Women’s Literature” at the 9th Annual Conference of the World Centre for Women’s Studies (World-CWS), University at Buffalo, New York, USA, on *Women in the 21st Century, Environment & Sustainable Development*, in collaboration with Central University of Odisha, India between 7-9 December 2023.



c) National Conference(s):

1. Dr. Reena Sanasam presented a paper titled “Women and Children in Conflict Zone: Kuki-Meitei Ethnic Clashes in Manipur” at the Two Day National Seminar on *Northeast Culture, Literature, Language, and Education: A Multi-Disciplinary Approach*, organized by the Department of English and Cultural studies, Manipur University, Canchipur during 1-2 March 2024.
2. Dinamani Biswal presented a paper titled ‘Crop Insurance Adoption and Heterogeneous Impact on Farm Households in India in the 58th Annual Conference of The Indian Econometric Society (TIES) at the Department of Economics, Tripura University.
3. Sumallya Mukhopadhyay presented a paper titled *Exploring Pastoral Life-Worlds* at the Ninth Oral History Association of India Conference held at the North-Eastern Hill University, Shillong, in March 2024.

d) Book/Chapter:

1. Avishek Ray (with Gabriel Dattatreyan, Martin Webb, Usha Raman et al.), *Digital Expression of the Self(ie): The Social Life of Selfies in India* (Routledge)
2. Reena Sanasam, “Of Tradition, Nostalgia, and Spiritualism” in the book titled *Voices at the Door*, Upanayan Publications, New Delhi, pp. 191-200, 2023. [ISBN:978-93-91467-00-5]
3. Panchali Bhattacharya (with Amrita Satapathy), “Deconstructing the Idea of Manhood in Indian Television Advertisements,” in *Rethinking Media Studies: Media, Meditation and Communicative Action*, Edited by A.K.Giri and S.K.Biswal (Routledge), pp 294-311, 2024. [<https://doi.org/10.4324/9781032632667-23>]
4. Panchali Bhattacharya (with Pritam Panda). “Ecopsychology and Indigenous Ecosophy: Understanding the Relationship between Nature and Human Mind.” in *Eco-Concepts: Critical Reflections in Emerging Ecocritical Theory and Ecological Thought*, Edited by Cenk Tan and İsmail Serdar Altaç, Lexington Books (An Imprint of Rowman & Littlefield), USA, pp 101-111, 2024.
5. Sumallya Mukhopadhyay, “Life Stories and Material Objects: Revisiting the Memory of the 1947 Bengal Partition”, in *The Long History of Partition in Bengal: Event, Memory, Identity*. Routledge. ISBN- 9781003317210, pp. 107-121, 2024. [<https://doi.org/10.4324/9781003317210-8>]

1.6 CONSULTANCY SERVICES: Nil

1.7 MAJOR EQUIPMENT ACQUIRED: Nil

1.8 PATENT: Nil



1.9 VISITS TO ABROAD

Sl.No	Name of the Faculty	Name of the Conference/ Programme	Place	Date
1.	Avishek Ray	Research Fellowship at the Centre for Modern Art and Theory, Masaryk University	Brno, Czech Republic	Feb 2024
2.	Avishek Ray	Invited lecture at the department of Indology, University of Tübingen	Tübingen, Germany	20 June 2023
3.	Avishek Ray	International conference on Beyond Comparison: Towards a Connected Philology	Munich, Germany	14-16 June, 2023

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

1.11 Ph.D. Thesis: Nil

1. Name of the Department:

Management Studies



Image1: Faculties of the Department of Management Studies



Industrial Visit of the Department of Management Studies at Visakhapatnam Steel Plant & BHEL at Visakhapatnam during 13th -21st January 2024

INDUSTRIAL VISIT TO VISAKHAPATNAM



An immersive industrial visit was meticulously organized for the MBA students of DOMS NIT Silchar Batch (2022-2024) to Visakhapatnam, city renowned for its industrial significance and breathtaking landscapes along the eastern coast of India, from 13th to 21st January 2024, accompanied by the faculty Co-ordinator Dr. Ram Koteswara Rao Kondasani and Dr. Binoti Patro. The purpose of the excursion was to provide students with in-depth insights into various industries while also acquainting them with the cultural and tourist attractions of the region. Let's delve into a detailed exploration of each day of the excursion, highlighting the areas visited and their significant features.

Image2: MBA Batch 2022-24 Leaving for the Industrial Visit from NIT Silchar Campus



Image3: Inside view of the RINL Company near the Blast Furnace-1



Image4: Near the Entrance Gate of RINL Company



Image5: Business Quiz Competition Conducted by the Management Society of DoMS on 24.03.2024

The Department at a glance

Year of Establishment:	2012
Academic Programmes Offered:	• Master of Business Administration (MBA) • Doctor of Philosophy (Ph.D.)
Total Faculty Strength:	• Professor: 0 • Associate Professor: 02 • Assistant Professor: 05
Total Student Strength:	• MBA: 50 • Ph.D.: 32
New Students Joined in 2023-2024:	• MBA: 50 • Ph.D.: 06

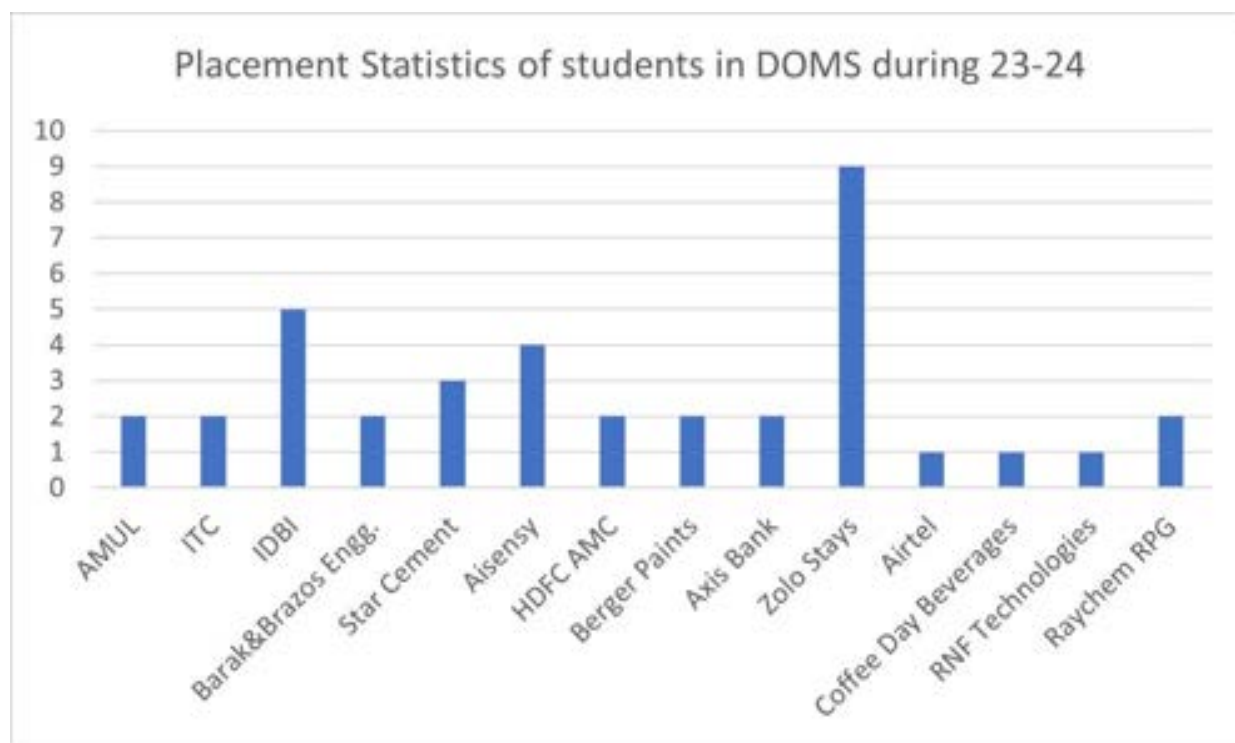


Fig1: Placement statistics of students in the Department of Management Studies during 2023-2024

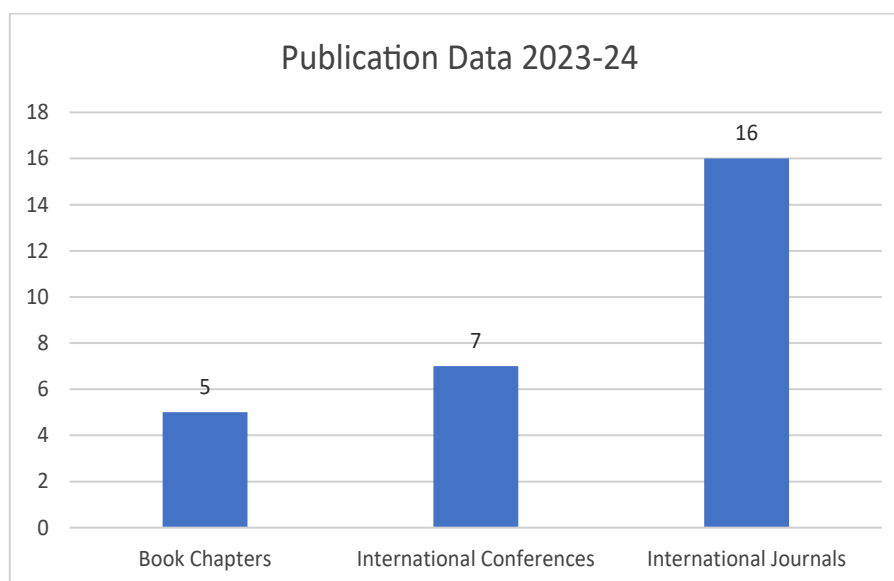


Fig 2: Publication details of Department of Management Studies during 2023-2024

1.1 Academic Staff:

HEAD of the Department: Dr. Soma Panja, Associate Professor



Name of Faculty members:

Professor	Associate Professor	Assistant Professor
NIL	Dr. Ashim Kumar Das Dr. Soma Panja	Dr. Binoti Patro
		Dr. Saurabh Verma
		Dr. Rama Koteswara Rao Kondasani
		Dr. Tanaya Nayak
		Dr. Dibya Nandan Mishra

Visiting Professor (If any): NIL

1. CA Anil Jain, Chartered Accountant
2. Prof. Rajat K Baisya, (Retd.) Professor, IIT Delhi

1.2 Distinction Achieved

a) By Student:

b) 1. By Faculty Member: Dr. Saurabh Verma

- Delivered expert lecture on Role and Relevance of Intellectual Property Rights during lecture series on “Intellectual Property Rights” organized by Government Degree College Kanda in collaboration with UCOST, Dehradun from March 10, 2024.
- Delivered expert lecture on Implication of Copyright laws in India during five days faculty development program on Intellectual Property Rights for Sustainable and Technological Development (IPRSTD 2024) organized by the Galgotias University, Greater Noida from February 06-10, 2024.
- Delivered expert lecture on Role and Relevance of Intellectual Property Rights during an International webinar on Enhancing Horizons in Forensics organized by GLAFIMS ASSOCIATION, INDIA on March 14th 2024.
- Delivered expert lecture on IPR and IP Management for Startups in India during Faculty Development Program on Establish, develop and manage Entrepreneurship in the educational institutes of the north east India”, conducted by Assam University Silchar from 12-17, February 2024.

2. By Faculty Member: Dr. Dibya Nandan Mishra

- Awarded Honorary Research Fellowship from INTI International University, Malaysia (December 2023)

1.3 SEMINARS, SYMPOSIA, SHORT TERM COURSES, WORKSHOPS, CONFERENCE

a) Conducted by Faculty Member

Sl. No.	Name(s) of the Coordinator	Title	Funding Agency	Duration
1	Dr. Saurabh Verma	International Seminar on Indigenous Knowledge and Intellectual Property Rights	ICSSR	11-12th August 2023
2	Dr. Saurabh Verma	One Week Workshop on Life Skills and Professional Effectiveness	NIT Silchar	22nd-26th February 2023



b) Participated by Faculty Member

Sl. No.	Name of Faculty	Details of the Program	Organizing Institute
1	Dr. Ashim Kumar Das	Resource Person at Entrepreneurship Development Program 19 th & 20 th May, 2023	Indian Institute of Entrepreneurship, Guwahati
2	Dr. Ashim Kumar Das	Resource person at FDP on Entrepreneurship 12 th -17 th February, 2024	Incubation Centre, Assam University, Silchar
3	Dr. Ashim Kumar Das	Resource person at National seminar on Personal finance and contemporary issues 13 th & 14 th December, 2023	Department of Commerce, Assam University, Silchar
4	Dr. Binoti Patro	Presented paper titled "Effectiveness of using combined technical analysis indicators in Indian Financial Markets" at International Finance and Accounting Conference (IFAC-2023) during 8-9 th September 2023.	IIM Jammu
5	Dr. Binoti Patro	Presented paper titled "Efficacy of 50DMA and 100DMA in the Indian Financial Markets" at Management Education and Research Colloquium, (19 th - 21 st May) 2023.	IIM Kashipur
6	Dr. Saurabh Verma	Global Marketing Conference at Seoul from July 20 th -23 rd , 2023 organized by Global Alliance of Marketing & Management Associations (GAMMA)	GAMMA
7	Dr. Saurabh Verma	International Conference on Multidisciplinary Concepts in Management (ICMCM 2023)	GL Bajaj Institute of Technology and Management, Greater Noida
8	Lt. Dr. Rama Koteswara Rao Kondasani	Management Doctoral Colloquium, 2023 presented a paper Impact of Ecotourism on Community Support: A Conceptual Analysis	Indian Institute of Technology Kharagpur, India
9	Lt. Dr. Rama Koteswara Rao Kondasani	Fore International Marketing Conference 2023 presented a paper "Assessing the Role of Community Involvement on Community Support for Ecotourism: A Structural Model"	FORE School of Management, New Delhi

1.4 Research Development

a) Ph.D. Programme (Specializations):

1. Finance and Accounting
2. Marketing Management
3. Human Resource and Organisation Behaviour
4. Entrepreneurship and Small Business Management
5. Intellectual Property Rights
6. Business Analytics



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

Completed	Submitted	Ongoing
03	02	32

c) Ongoing/Completed Sponsored Research Project:

Sl. No.	Project Title	Principal Investigator(s)	Funding Agency	Cost in lakhs	Duration
1	Comparative Study on the Implementation of Skill India Mission (PM Kaushal Vikas Yojana) in the Institutes of Assam and Delhi awarded	Dr. Soma Panja	ICSSR	15,00,000	6 months
2	Socio-Economic Impact of Pradhan Mantri Bhartiya Janaushadhi Pariyojana In North-Eastern States of India	Dr. S. Verma (PI) Dr. A.K. Das (Director)	ICSSR, New Delhi	7,00,000	01-10-23 to 31-03-24 (6 months)
3	Inclusive Economic Development of India via Digital STEM&L Education	Dr. Ranjay Hazra (PI) Dr. A.K. Das (Co-PI)	SPARC, IIT Kharagpur	49,30,720	28.07.23 on-going (2 years)
4	An Impact Assessment of Scheme for Facilitating Start-ups Intellectual Property Protection (SIPP) in Promoting Entrepreneurship and Innovation in India	Dr. Saurabh Verma	Department of Science and Technology	13,51,720	02 Years
5	Examining Visit Intention among Potential Visitors in Barak Valley, Role of eWOM characteristics, Tourist Engagement and Trust: North Eastern Region (NER) Tourism Perspective.	Lt. Dr. Rama Koteswara Rao Kondasani	ICSSR; NERC	1.2 Lakhs	12 Months
6	Promoting Start up Intent for "Aatma Nirbhar Bharat" among Science and Technology Students in Institutes of National Importance	Dr. Rajeev Kumar Panda & Lt. Dr. Rama Koteswara Rao Kondasani	ICSSR, New Delhi	15 Lakhs	24 Months
7	Comparative Study on the Implementation of Skill India Mission (PM Kaushal Vikas Yojana) in the Institutes of Assam and Delhi awarded by ICSSR	Dr. Soma Panja & Lt. Dr. Rama Koteswara Rao Kondasani	ICSSR, New Delhi	15 Lakhs	9 Months
8	Research Study on "Women in Paramilitary Forces"	Dr. Tanaya Nayak	National Commission for Women	10.5 Lakhs	Ongoing



d) Research Paper Reviewed

Sl. No	Faculty Name	Journal Name	No. of Paper	Year
1.	Dr. Binoti Patro	The Case Journal	1	July 2023
		Digital Policy, Regulation and Governance	1	Dec 2023
		Gender, Technology and Development	1	Apr 2023
		Humanities and Social Sciences Communications	1	July 2023
2.	Dr. Saurabh Verma	IIMS Journal of Management Science	1	2024
		Humanities and Social Sciences Communications.	1	2024
		Journal of Economic and Administrative Sciences	1	2024
3.	Lt. Dr. Rama Koteswara Rao Kondasani	Tourism Review	02	2023
		Tourism Research Recreation	02	2023
4	Dr. Dibya Nandan Mishra	Journal of Accounting & Organizational Change	1	March, 2024
		Qeios	1	March 2024

e) Chairing of the Technical Session

Sl. No.	Faculty Name	Details
1.		NIL

1.5 PUBLICATION

a) Journal (s):

1. Ray, J. & Panja, S. (2024), Exploring Metaheuristic Strategies and Risk Mitigation Techniques for Diversified Portfolio Management, Int. J. of Operational Research, (Scopus), Accepted for publication)
2. Das, A.R., & Panja, S., (2024), "An Empirical Investigation of the Impact of Retail Investors' Sentiment on their Investment Decisions", Australasian Accounting, Business and Finance Journal (Accepted for publication).
3. G. Raj & S. Panja (2023), " Research pattern and productivity in Behavioral Finance literature: Insights from Bibliometric analysis using R", Vision: The Journal of Business Perspectives, (SCOPUS, ABDC)
4. S. Panja (2023), "Effect of Behavioural Biases on the Financial Decisions of Rural Women Micro Entrepreneurs: A Scale Development Approach", Accepted for publication, Vision: The Journal of Business perspective, (Scopus)
5. Kar, D., & Patro, B. (2024). Unravelling the Impact of Financial Literacy on the Intention of Indian Retail Investors to Adopt Socially Responsible Investments: The Interplay of Social Self-Efficacy as a Mediating Mechanism. *Global Business Review*, 09721509231223571.



6. Raj, R., Verma, S., Yadav, S. K., & Yadav, R. K. (2023). The Mediating Role of Attitude Towards Intentional Buying of Counterfeit Goods: An Indian Consumer's Perspective. *Journal of Scientific & Industrial Research (JSIR)*, 82(12), 1285-1294. SCOPUS, SCI
7. Rituraj. & Verma, S. (2023) Trends in the evaluation of Non-Deceptive Counterfeiting: A Bibliometric analysis using R. *International Journal of Business Excellence*. In Press. (SCOPUS).
8. Venditti, L. M., Ramírez-Valdivia, M., Solano, D. B. C., Verma, S., & de Souza Andrade, H. (2023). Technology commercialization: tools for offering technologies protected through intellectual property. *Revista de Gestão e Secretariado*, 14(8), 14425-14458.
9. Verma, S., Gupta, M. & Biswas, A. (2023) The Antecedents of Rural Customers Satisfaction and Loyalty regarding Mobile Banking Services during the Covid-19 pandemic in India *International Journal of Business Forecasting and marketing Intelligence*. In Press (Inderscience Publisher).
10. Verma, S., Yadav, S. K., & Raj, R. (2023). Trends in the Evaluation of Masstige Marketing: A Bibliometric Analysis Using R. *Vision*, 09722629231172046. (SCOPUS) ABDC-C
11. Rai, G. D., & Verma, S. (2023). Quality of work life and medical teachers' commitment: A moderated mediation analysis of fear of covid-19 and job satisfaction. *Asia Pacific Journal of Health Management*, 18(1), 139-148. (SCOPUS) ABDC-C
12. Das, A., Kondasani, R.K.R. and Deb, R. (2024), "Religious tourism: a bibliometric and network analysis", *Tourism Review*, 79(3), 622-634.
13. Deb, R., Kondasani, R.K.R. and Das, A. (2023), "Adventure tourism: current state and future research direction", *Tourism Review*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/TR-09-2022-0441>.
14. Deb, R., Kondasani, R. K. R., & Das, A. (2024). Package adventure tourism motivation: scale development and validation. *Tourism Recreation Research*, 1–13.
15. Barik, S. and Nayak, T. (2023). Workplace spirituality: exploring past, present and future through bibliometric analysis. *Benchmarking: An International Journal*, Vol. ahead-of-print No. ahead-of-print. (SCOPUS, ABDC-B).
16. Barik, S. and Nayak, T. (2024). The Exploration of Workplace Spirituality Research: A Scoping Review. *Vision: The Journal of Business Perspective*. (ESCI, SCOPUS, ABDC-C).

b) International Conference(s):

1. G. Raj & S. Panja (2023), Impact of Emotion on Investment Decision of Indian Academicians: The Mediating Roll of Herding Effect, Management Education and Research Colloquium, IIM Kashipur.
2. G. Raj & S. Panja (2023), Impact of Traits on Investment Decision of Academicians: Mediating Role of Overconfidence, International Finance and Accounting Conference, IIM Jammu.
3. Bhattacharjee, R. & Patro, B. (2023). Effectiveness of using combined technical analysis indicators in Indian Financial Markets. International Finance and Accounting Conference (IFAC-2023) during 8-9th September 2023 at IIM Jammu.



4. Bhattacharjee, R. & Patro, B. (2023). Efficacy of 50DMA and 100DMA in the Indian Financial Markets. Management Education and Research Colloquium, (19th - 21st May) 2023 at IIM Kashipur.
5. Research paper titled “Does social media promotes Non-deceptive Counterfeiting? Empirical evidences from India” presented in 2023 Global Marketing Conference at Seoul from July 20th-23rd, 2023 organized by Global Alliance of Marketing & Management Associations (GAMMA).
6. Research paper titled “The Role of Consumer Trust & Attitude in Predicting Consumer Intentions Towards Cloud Kitchen in India: A Mediation Model Framework” presented in International Conference on Multidisciplinary Concepts in Management (ICMCM 2023) from 30th June – 1st July 2023 organized by GL Bajaj Institute of Technology and Management, Greater Noida in association with California State University, USA.
7. Research paper titled “The Transfer of Defence Technology Strike the War Dynamics” presented in International Conference on Multidisciplinary Concepts in Management (ICMCM 2023) from 30th June – 1st July 2023 organized by GL Bajaj Institute of Technology and Management, Greater Noida in association with California State University, USA.

c) Book/Chapter:

1. Llussá, F., Verma, S., Chandel, A. K., & de Souza Andrade, H. (2024). Critical Factors in Intellectual Property Creation, Protection, and Commercialization Management Process in Biotechnology. In *Biorefinery and Industry 4.0: Empowering Sustainability* (pp. 345-363). Cham: Springer Nature Switzerland.
2. Verma, S., & Yadav, S. (2023). Factor's affecting Teacher's Experience towards online classes during COVID-19. 5th Research Convention on Economic Reset: An Agenda for 2030. Vol. 1, Pp. 136-144, ISBN: 978-81-959928-0-5, Ishaan Arts & Production.
3. Verma, S., & Dey, S. (2023). Innovation and Intellectual Property Rights in Engineering Curriculum: A Pedagogy for Higher Educational Institutes. In *Engineering Pedagogy: A Collection of Articles in Honor of Prof. Amitabha Ghosh* (pp. 113-125). ISBN 978-981-19-8015-2 Singapore: Springer Nature Singapore.
4. Mishra, D. N., & Patra, B. C. (2024). E-Waste Dilemma. In *Practice, progress, and proficiency in sustainability* (pp. 44–55).
5. Patra, B. C., & Mishra, D. N. (2024). Extended Producer Responsibility (EPR) and E-Waste Management. In *Practice, progress, and proficiency in sustainability* (pp. 136–145).

CONSULTANCY SERVICES

1.9 VISITS TO ABROAD

Sl.No.	Name of the Faculty	Name of the Conference/ Programme	Place	Date
1.	Dr. Saurabh Verma	Global Marketing Conference at Seoul from July 20th-23rd, 2023 organized by Global Alliance of Marketing & Management Associations (GAMMA)	Seoul, Korea	July 20-23, 2023



1.10 MBA (Thesis/Project)

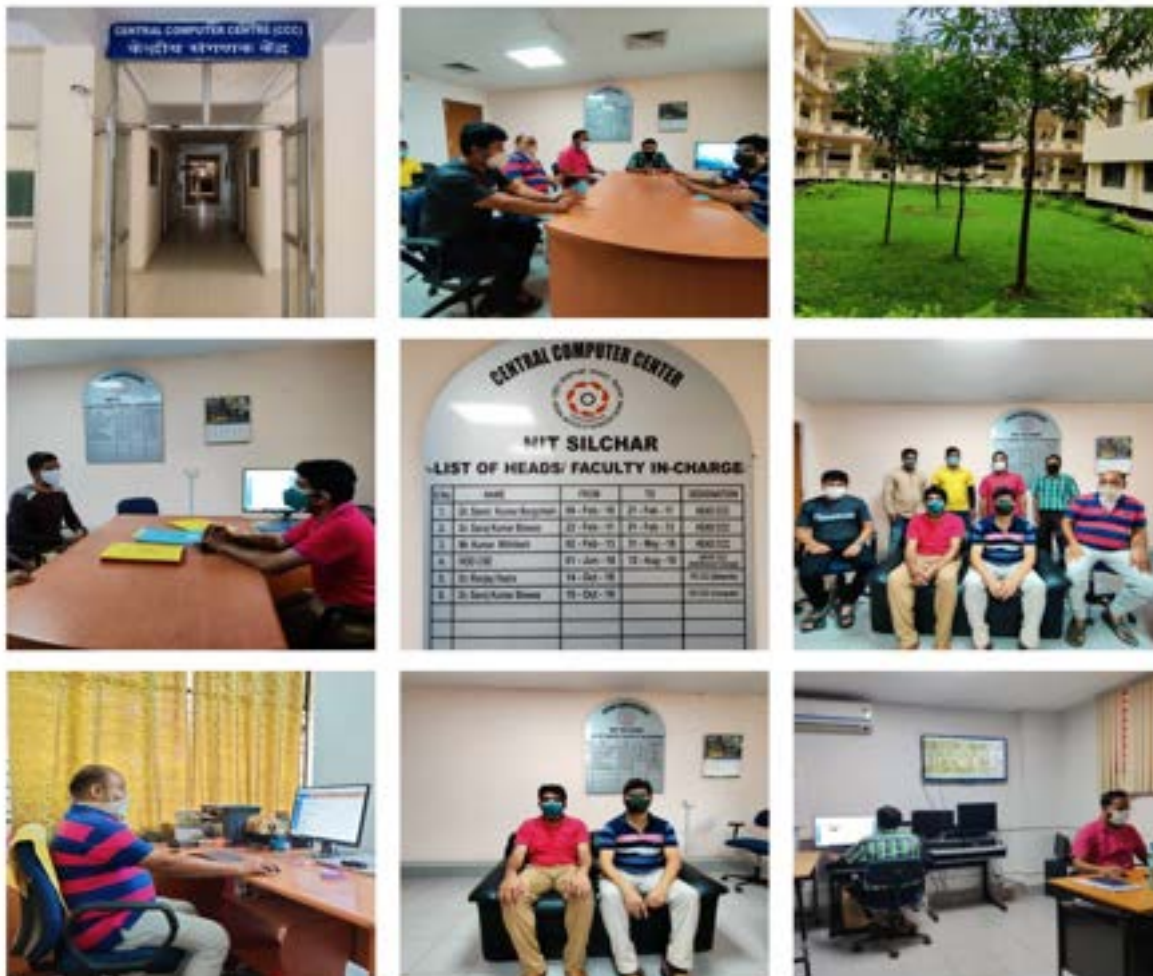
Sl. No.	Name of the Scholar	Name of the Supervisor	Title of the Thesis/Project
2.	Rudra Madhab Das	Dr. Soma Panja	Efficiency of Optimum Portfolio: A Comparative Analysis
3.	Himashree Medhi	Dr. Soma Panja	Heuristic optimisation of Single Index Model
4.	Sneha Dutta	Dr. Soma Panja	Bank performance analysis using CAMEL ratio
5.	Moitrayee Kalita	Dr. Soma Panja	A study of testing the weak form of market efficiency of Indian stock market with reference to nifty50
6.	Rimlee Sarmah	Dr. Binoti Patro	Carbon Emission Disclosure and Financial Performance of NIFTY India Manufacturing Companies
7.	Bhakta Ranjan Paul	Dr. Binoti Patro	Linking Transformational Leadership and Team Coordination: A Conflict Management Approach on Private Sector Banks
8.	Kaveri Deka	Dr. Binoti Patro	A Study on the Prediction of Stock Price Movement with the help of Technical Indicators
9.	Darshana Mazumder	Dr. Binoti Patro	Women on Board and Financial Performance of Indian Public Sector Undertakings (PSUs)
10.	Gautam Borthakur	Dr. Binoti Patro	Predicting Attrition of Employees in IT Industry
11.	Nirman Paul	Dr. Binoti Patro	Firms Purchasing Directors' and Officers' Liability Insurance- A Perspective from Indian Economic Policy Uncertainty
12.	Yumnam Tenzing Singh	Dr. Binoti Patro	Determinants of Dividend Policy: A Study in NIFTY Healthcare Index
13.	Tirthanu Das	Dr. Binoti Patro	Calendar Effect: Empirical Evidence from NSE NIFTY IT
14.	Tania Das	Dr. Binoti Patro	Impact of Macroeconomic Variables on the Volatility of Gold Prices: An Empirical Evidence in the Context of India
15.	Mithu Borah	Dr. Binoti Patro	Understanding the Motivation Factors of Healthcare Employees using the Expectancy Theory
16.	Mr. Ankur Baruah	Dr. Saurabh Verma	A Study on Moderation Effect of Students' Addiction to Virtual Reality Games
17.	Mr. Chiranjeet Gogoi	Dr. Saurabh Verma	Examining the Value-Based Adoption Model for Fitness Apps: Predictors of Behavioral Intention and the Role of Trust
18.	Ms. Nandita Basak	Dr. Saurabh Verma	Digital Nudging: Understanding consumer behaviour in the social media environment
19.	Mr. Nikesh Kumar Shah	Dr. Saurabh Verma	A Study on Exploring Attitudes and Practices of E-Waste Recycling Behaviour among Households in India



20.	Mr. Priyankur Hazarika	Dr. Saurabh Verma	A study on the role and effectiveness of gamification in engaging customers on e-commerce platforms
21.	Ms. Pushpita Deb Roy	Dr. Saurabh Verma	Consumers' Attitude and Purchase Intentions Regarding Dietary Supplements: Exploring the role of Trust as Mediator
22.	Mr. Ritesh Kumar	Dr. Saurabh Verma	Consumer Attitude and Intentions towards Food Vlogger: The role of perceived enjoyment as mediator
23.	Ms. Rumi Roy	Dr. Saurabh Verma	A Study on the Factors Influencing Consumers' Purchase Intention Regarding the Usage of Chatbots In E-Commerce
24.	Ms. Sneha Bhagabati	Dr. Saurabh Verma	A study on the determinants affecting consumer behavior in the age of ai powered digital assistants
25.	Mr. Soumyajit Das	Dr. Saurabh Verma	Impact of Cognitive Bias on Online shopping behaviour: A Study on Apparel Purchases
26.	Ms. Swarmista Paul	Dr. Saurabh Verma	The Role of Consumer Trust & Attitude in Predicting Consumer Intentions Towards Cloud Kitchen: A Mediation Model Framework
27.	Sirina Thapa	Lt. Dr. Rama Koteswara Rao Kondasani	Influence of Korean Entertainment on the female viewers purchase intention of Korean beauty products in North-East India
28.	Sibanjan Purkayastha	Lt. Dr. Rama Koteswara Rao Kondasani	A study on how the customer experience of using a broadband service influences the customers to become a brand advocate
29.	Lawanish Pingal	Lt. Dr. Rama Koteswara Rao Kondasani	Investigating the Impact of User Generated Content on Prioritization of Tourism Destination Selection: Effect of Travel Destination Image and Content Usage Satisfaction
30.	Lakee Buragohain	Lt. Dr. Rama Koteswara Rao Kondasani	Influence of social media on buying behaviour of luxury fashion Goods: A study on luxury shoes.
31.	Debajit Sarma	Lt. Dr. Rama Koteswara Rao Kondasani	The influence of e-service quality on customer satisfaction & repurchase intention: a case of online food delivery
32.	RSouriya Roy Barman	Lt. Dr. Rama Koteswara Rao Kondasani	Autonomous sensory meridian response: Cues for determining how it influences consumer food buying decisions
33.	Deepak Kumar	Lt. Dr. Rama Koteswara Rao Kondasani	Product packaging: A study on the design of product packaging of juice impacting consumer loyalty towards the brand
34.	Prarona Dutta	Lt. Dr. Rama Koteswara Rao Kondasani	Amul Delight: Investigation Customer Satisfaction and Loyalty towards Amul Products
35.	Himangshu Deori	Dr. Tanaya Nayak	The Impact of Financial and Non-Financial Rewards on Employee Engagement
36.	Biswajit Doley	Dr. Tanaya Nayak	Impact of Employee Communication on Organisational Commitment

ACADEMIC CENTRES & CELLS

CENTRAL COMPUTER CENTRE



1. Head /FACULTY IN CHARGE:

Dr. Saroj Kumar Biswas, Associate Professor-& Faculty In Charge (Computer)

Dr. Devendra Singh Gurjar, Assistant Professor-& Faculty In Charge (Networks)

2. Staffs:

Officer	Technical Staff	Attendant
(i) Mr. Kumar Mithilesh, (Senior Tech. Officer.)	(i) Mr. Md. Rashid Hussain, (Technician). (ii) Abhishek Palit (contractual), (iii) Rupak Ranjan Deb (contractual),	(i) Ms. Champabati Balmiki.



	(iv) NazmulHaqueLaskar (contractual), (v) AbinashBhar (contractual). (vi) Bappa Suklabaidya (contractual BHM)	

3. A Brief Introduction and Activities of CCC:

The Institute computing facility is maintained by the Central Computer Centre (CCC) which includes high-end servers and Intel Core-i5 and i7 based Personal Computers. The CCC comprises of two computer labs equipped with around 200 computers.

The state-of-art IT Infrastructure is deployed in the year 2013 and the whole Institute including the various departments, Students' Hostels, Administrative Building, Guest House, Library, Residential Quarters, Health Centre, Estate Engg. Branch, SAC Building, NITS Café, are connected by a campus-wide LAN and Wi-Fi facility using high-speed Fibre Optic cables (1 Gbps). The LAN, Wi-Fi is managed by High-Level Switches, controllers, and Servers. The Switches are connected by Fibre Optic Cables to Switches located in different academic departments, students' hostels of the Institute. The Institute has a dedicated 1 Gbps leased line under the National Mission on Education through Information and Communication Technology (NME-ICT)/National Knowledge Network (NKN), which provides 24x7 Internet Connectivity to serve the internet needs of Institution. So as a whole the institute is having two different internet service providers:

- (i) 1 GBPS high-speed PGCIL line caters to admin, academic, and quarters.
- (ii) 1 GBPS high-speed NKN line caters to all student hostels.

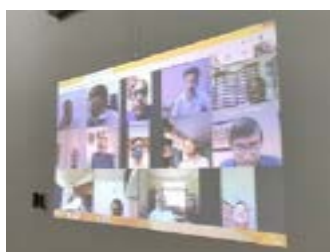
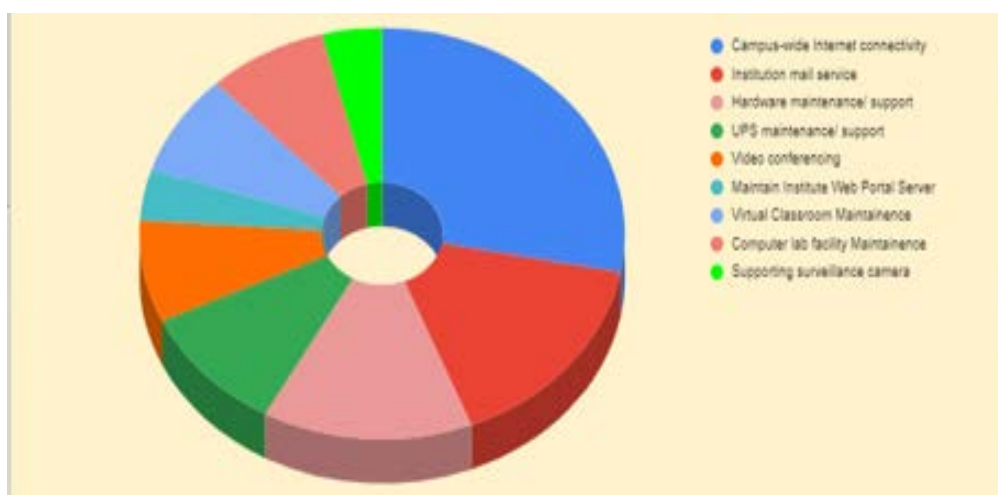
Currently, Wi-Fi connectivity is available at Guest House, Administrative Building, Lecture Hall Complex, all Residential Quarters, Health Centre, Estate Engg. Branch, SAC Building, NITS Café, Sports Complex as well as the departments. Network expansion still continues and work is going on for making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

4. Facilities provided by the Central Computer Centre :

1. Campus-wide Internet connectivity: Providing / maintaining internet facility around campus through LAN and Wi-Fi on a required basis.
2. Institution mail service: Creating and looking after personal Institute mail of all employees and students. Institute e-mail Ids are served to all, under nits.ac.in domain. The center manages institute email accounts of faculties, students, and other staff members. Recently the center procured a G-Suite license free of cost and right now the institute email ID is running on top of a robust and highly available G-Suite service.
3. Hardware maintenance/ support: On the required basis, rectifying computer hardware issues over academic areas.
4. UPS maintenance/ support: Based on the requirement, providing UPS backup to active network components.

5. Institution web portal: The institute website is hosted in one of the servers of the central computer center and the center has to maintain the hosting server.
6. Video conferencing: CCC is equipped with the arrangement for supporting video conferences with MHRD, Rastrapati Bhawan, and live lecture series with other institutions, virtual sessions.
7. Virtual classroom: Through this virtual classroom, it is possible to interchange technical sessions/ discussions with other institutions. Around the year virtual classroom is used as a venue for many events (online/offline) such as conferences, workshops, GIAN courses, seminars, defence examination, etc.
8. Computer lab facility: Two labs are operated and maintained under the center
 - A) Training and Placement (T&P) Cell's activities,
 - B) Lab for common online examinations.
9. Supporting surveillance camera: Providing support on network and configurations for IP Cameras around the campus.
10. The center manages all the online meetings and provides Google to meet solutions to all the faculties and staff to run online classes/meetings smoothly.

5. Central Computer center at a glance



a) The Virtual Class Room; b) Online Meeting Conducted; c) The Lab Setup



CENTRAL LIBRARY



1. INTRODUCTION

The Central Library of NIT Silchar renamed as “Dr. A. P. J. Abdul Kalam Learning Resource Centre” is an integral part of academic and research activities of NIT Silchar. It was set up in the year 1977 and it is one of the best technical libraries in North East India. It has been growing and expanding in the aspect of collection both in print and digital form since its inception and provide services to the academic fraternity of NIT Silchar to meet their teaching, research, and consulting, training and learning requirements. The range of services offered by the library is comparable to the best libraries in the eastern zone of India.

Keeping in view the dynamic synergic development, the Conference hall, Language Lab and, the Digital Library Room of the Dr. A. P. J. Abdul Kalam Learning Resource Centre has been made ready for the users.

The key officers of the Central Library are:

Chairman, Library

Prof. U Kumar

Deputy Librarian

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

2. COLLECTION DEVELOPMENT

Collection building is one of the important functions of the library, which supports the academic and research activities of the students, faculty, staff, and other users. Collections of the central library are printed books, CDs, printed journals, e-journals/databases, e-books, theses,



dissertation, reports, standards, and other reading materials covering the areas of science, engineering, technology, humanities, social sciences, and management. The following table presents the collections of the library for the year 2023-24.

The total collection of the library as on 31st March 2024 stands as follows:

Name of Resources	As on 31 st March 2020	As on 31 st March 2021	As on 31 st March 2022	As on 31 st March 2023	As on 31 st March 2024
Books	1,09,990	110451	115925	118506	122582
Print Journals & Magazines	94	69	69	65	56
Bound Volumes	5768	5768	5768	6270	6270
CD-ROMs	4711	4738	4738	5917	5917
Databases & E-journals package	17	18	23	23	23
Videos	909	909	909	909	909
ISI Code (Printed)	8627	8627	8627	8627	8627
Book Bank (General)	9235	9235	9235	9235	9235
Book Bank (SC & ST)	8617	8617	9497	10513	10513
IRC Codes	152	152	152	152	152
Thesis	258	296	354	473	532
Project & Dissertation	1057	1214	1323	1672	1961
Reports/Annual Reports	500	518	520	541	583

A need-based collection of knowledge resources are developed keeping in mind the objectives and activities of the Institute.

➤ **Printed Journals / Magazines**

During the financial year 2023-24, Library reviewed and subscribed 56 printed journals/magazines based on the use of the library users'.

➤ **E-resource/database:**

In 2023-24, apart from the 13 databases/e-journals provided by E-ShodhSindhu, NIT Silchar has renewed, 23 databases/e-journals like ASTM, ACI & MCP jnl., American Chemical Society, BIS Standard, Cambridge S&T with Journal of Fluid Mechanics, Canadian Science Journals-5 Subjects collection, EMCS (Emerald Marketing Case Studies), EPW Research Foundation, IEEE/ IEL level 2, EBSCO-Business Source Elite, Emerald, Elsevier Science Direct (8 subjects collection), Indiastat.com, IOP, LNCS-Springer, Proceedings of ICE complete Journals collection Royal Society of Chemistry, SIAM, Sage-EMS, Taylor & Francis and Wiley Engineering collection etc..

Further, NIT Silchar also procured the Research tools like Scopus and NIT Silchar also got the license of Turn-it-in for similarity check.



In addition to these, NIT Silchar has also got the licence of **Grammarly** for writing thesis and dissertation with correct English without any grammatical mistake and they can search and check their reports through the link: <https://www.grammarly.com/edu>.

In the financial year 2023-24, Library renewed license for **Knimbus** for 3 years for providing library facilities for the off-campus library users' and they can access library e-resources through link <https://nits.knimbus.com/user#/home>.

➤ **E-Books:**

NIT Silchar has a good collection of e-books from major publishers. The major publishers are Elsevier, Springer, Pearson, Oxford University Press, Tata McGraw Hill, and Cambridge University Press, New Age International, Prentice-Hall of India, Laxmi Publisher through Elib4U platform. World eBook library is provided by NDL and South Asia Archive is provided by e-ShodhSindhu.

In the financial year 2023-24, e-books on **Elsevier Science Direct on engineering collection 2017-2020, 721 titles** were purchased.

In total 1,54,368 number of titles of e-books are available for online access both at campus and off- campus.

a) **Usage Statistics of Electronic Resources**

Major electronic resources have shown a significant increase in use patterns. The most popular full-text databases are ACM, ASCE, ASME, Elsevier' Science Direct, IEEE/IEL – level 2, Springer Link, Taylor and Francis etc. Comparative data of the last five calendar years is given below:

Usage Statistics of a few e-resources/ databases/e-journals from 2019 to 2023

S N	Source	Year wise download statistics				
		2019	2020	2021	2022	2023
1.	ACM	4198	1169	1424	2686	2674
2.	AIP	3088	1128	3065	6680	914
3.	ASCE	3536	1498	4826	5402	8871
4.	ASME	1567	836	1221	2982	2674
5.	MathSciNet (AMS)	1603	411	669	345	33
6.	APS	1299	513	952	1248	1398
7.	Elsevier Science Direct	214016	83614	279468	260381	1055551
8.	Emerald Premier	7571	6341	16461	23575	11503
9.	IEEE/ IEL level 2	55070	42726	70364	447420	355678
10.	Oxford University Press	132	128	184	120	134
11.	RSC	10272	17047	32097	64167	73533
12.	Scopus	10148	18245	124637	286399	14271
13.	SIAM	348	301	194	136	134
14.	Springer Link	29548	24226	37033	94531	62440
15.	Taylor & Francis	11898	7631	17794	29612	35127



3. BUDGETARY DETAILS:

Library Budget for the last 5 Years:

Year →	2019-20	2020-21	2021-22	2022-23	2023-24
Plan (Non-Recurring)	4.00 crore	6 crore	6 crore	5.50 crore	5.75 crore
Plan (Recurring)	2.50 lac	2.40 lac	3.85 lac	3.50 lac	15.35 lac

4. EXPENDITURE FROM 2019-20 TO 2023-24:

Year →	2019-20	2020-21	2021-22	2022-23	2023-24
Plan Head	3,79,97,789.00	5,71,05,135.00	4,68,95,742.00	4,02,73,361.00 + 46,35,871.00 (Payment made in 2023-24 for resources of 2022-23)	6,04,08,264.00
Non-Plan	1,88,139.00	51,664.00	3,85,000.00	3,45,390.00	3,58,558.00

5. Detailed expenditure for the last 5 years:

Description of items	Year				
	2019-20	2020-21	2021-22	2022-23	2023-24
Books	29,62,178.00	13,07,639.00	38,50,121.00	8,58,643.00	30,71,755.00
e-Books	5,04,498.00	88,94,628.19	0.00	0.00	58,93,923.00
Online Database/ e-Journals	3,45,31,113.00	4,66,74,938.00	4,30,45,621.00	4,02,73,361.00 + 46,35,871.00 (Payment made in 2023-24 for resources of 2022-23)	5,12,37,717.60
Printed Journals/ Magazine	0.00	2,27,930.00	0.00	2,07,932.00	2,04,869.00
Contingency/DOC	1,72,163.00	50,680.00	40,000.00	3,45,390.00	3,58,558.00
News paper	15,976.00	984.00	0.00	0.00	0.00

6. LIBRARY SERVICES

➤ Circulation service

The book circulation service is kept open for 48 hours a week. The Library issued 26550+ numbers of books during the year 2023-24.



➤ Reference Section

The library maintains an academic research collection which include reference books, bound volume, thesis and dissertations etc.

➤ Resource Sharing

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

➤ Book Bank facilities

The library maintains a book bank facility to help students belonging to Scheduled Castes, Scheduled Tribes, Physically Challenged, and Other Backward Classes (OBC) and also Foreign Students'. The book bank mainly consists of the prescribed textbooks for undergraduate courses and loans up to 5 to 7 books each to these students for a full semester and sometimes more depending on availability.

➤ Web OPAC (Online Public Access Catalogue)

The library users' can search the entire Library collections i.e. E-resources (e-books and journals/databases), print books, print journals, bibliographic details of thesis and dissertations and CDs, etc. through the library of institute website.

Further, **Knimbus** is provided for offering facilities for off-campus users to access of library e-resources.

In the library website, **Grammarly** link is given for writing thesis and dissertation with correct English without any grammatical mistake and they can search and check their reports through the link: <https://www.grammarly.com/edu>

Further, NIT Silchar has got the Research tools like Scopus and also got the license of Turn-it-in for similarity check.

7. LIBRARY ORIENTATION & TRAINING

The library has taken key initiatives for the 'user's education programme' to inform, educate, and train library users' about various resources and services of the library. In addition to that library organizes orientation programmes for the benefit of library users'.



प्रगत संगणन विकास केंद्र

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING



C-DAC is a premier R&D institution of the Ministry of Electronics & Information Technology (MeitY) and it established its 11th Centre was set up in NIT, Silchar in 2014 entitled as C-DAC Centre in North East (CINE). This Centre runs independently by C-DAC as the nodal agency for the proliferation of C-DAC technologies, and capacity building in the North East.

C-DAC CINE is collaboratively working with NIT Silchar for supporting development of society using Emerging Technologies. In this financial year, C-DAC CINE is working on various projects in the following domains.

E-Governance

1. Online Human Resource Management and Information System (e-HRMIS) for NHM, Meghalaya & SETS Chennai.
2. Public Works Department Online Monitoring Management & Accounting System (PDOMMAS).

Healthcare

1. Drugs and Vaccine Distribution Management System (DVDMS),
2. Hospital Management Information System (HMIS)

High-Performance Computing (HPC)

1. Establishment of Centre for SC-ST and Women Enablement on High Performance Computing.

Education & Training (E&T)

1. Work Based Learning (WBL) Programme to Strengthen and Empower SC/ST/Women/EWS Graduate Engineers through MeitY Institutional

Digital India RISC – V (DIR-V)

1. In collaboration with IIT Guwahati, developing a cost-effective, Portable Optoelectronic Instrument to Measure Steady State Fluorescence (PRATIDIPT)

Internet of Things (IoT) Technology

1. Smart City 2.0 Empowering Indian Industry with Smart Solutions.

Cyber Security

1. Security of Swanirbhaari Web Application.
2. Security Audit of MizoMart E-Commerce Portal.
3. Security Audit of Manipur State Power Distribution Co. Ltd.
4. Security Audit of IIT Guwahati Website.
5. Security Audit of G.C College Website.
6. Security Audit of Online Agenda Submission Portal.



This financial year, C-DAC Centre in North East (CINE) has proudly entered into three significant Memorandums of Understanding (MoUs), further expanding our collaborative efforts and driving innovation forward.

1. MoU signed between MeitY and C-DAC Silchar. The signing ceremony was held on 28th Feb 2023.
2. MoU signed between C-DAC and Mizoram State e-Governance Society, Govt. of Mizoram. The signing ceremony was held on 1st May 2023.

In the field of Education and Training, C-DAC CINE has also made its presence by conducting

1. C-DAC ACTS PG Diploma Courses both online and in physical class mode.
PG Diploma in Advanced Computing (PG – DAC)
PG Diploma in Artificial Intelligence (PG – DAI)
PG Diploma in Big Data Analysis (PG – DBDA)
2. National Apprentice Training Scheme (NATS) for Engineering and Non – Engineering Graduates
3. C-DAC Summer Internship & Winter Internship
4. C-DAC Summer Internship of MBA students
5. Work-Based Learning Internship Program for ST/SC/EWS and Women Candidates.
6. Corporate Training on Cyber Security/Information Security Practices as per CERT guidelines.

Awards & Recognition

1. 8th eNorth East Award 2023 for Best Digital Innovation in Sustainable Health Development in the category of Health & Well-Being. In recognition of their exceptional contribution to advancing sustainable development through innovative digital solutions in North East India.

Events & Conferences

1. A 2-day workshop on PCB Design was held from 06-08 October 2023 at C-DAC Silchar.

Invited talks delivered by C-DAC Silchar Members

1. Shri Jitesh Choudhary, Scientist E and Centre Head of C-DAC CINE delivered an engaging speech on "Intellectual Property and Its Role in Fostering Innovation and Development, Strategies for Technology Commercialization" on January 30, 2024. He emphasized the importance of Intellectual Property Rights (IPR) in today's digital age, highlighting their critical role in driving innovation and protecting creators' rights in a rapidly evolving global economy. The event took place at Assam Start-Up in Guwahati, Assam.
2. Shri Yengkhom Ranjan Singh, Scientist E and Joint Director of C-DAC Centre in North East (CINE) delivered an insightful speech at the 7th edition of Emerging North East 2024, held on February 21, 2024. His address focused on "Assam Technology Sector: Opportunities and Software Development from the North East Region" and took place at the NEDFi Convention in Guwahati, Assam.



INSTITUTE INNOVATION CELL

A. About IIC Institute

- **Vision / Mission of IIC established at the Institute**

Institution's Innovation Council (IIC) will nurture and focus on creating a culture of Innovation, Start-Ups and Entrepreneurial venture ecosystem across all stake holders of institution from idea generation to pre-incubation, incubation and graduating from the incubator as successful start-ups

- **Journey of IIC established at the Institute**

The Institution's Innovation Council (IIC) was established and approved by the Director, NIT Silchar on 18 October, 2018. Since its inception the IIC is constantly executing various activities in line with MoE's Innovation Council.

- **Diversified representation in the IIC established at the institute from industry, Interdisciplinary & Departments/ Units etc.**

- **Adequate member's representation were considered while formulating the IIC.**

Sr. No	Particulars	Members
1	Faculty from different engineering departments	39
2	Student from different engineering departments	20
3	Industrial experts	02
4	Leading Bank representative	01
5	Start-up/ Alumni Entrepreneur	02
6	Legal Experts	01

- **Different units are also functionary in execution of IIC work.**

Sr. No	Particulars	Units
1	IPR Cell	01
2	Start-up Centre	01
3	Centre For Research Innovation & Development (CRID)	01
4	Institute Entrepreneurship Development Cell (IEDC)	01
5	Centre for Engineering Education Development (CEED)	01



6	Centre For Innovation and Social Transformation (CIST)	01
7	Industry Interaction Cell	01

B. Key functionaries at the IIC Institute

- **President:** Professor Rajat Gupta, Department of Mechanical Engineering, NIT Silchar
- **Convenor:** Dr. Wasim Arif, Department of Electronics & Communication Engineering, NIT Silchar
- **Coordinator:** Dr. Ashish B Deoghare, Department of Mechanical Engineering, NIT Silchar
- **Member:** Dr. Prashanth J, Department of Civil Engineering, NIT Silchar
- **Member:** Dr. Risha Mal, Department of Electrical Engineering, NIT Silchar
- **Member:** Dr. Subrata Bera, Department of Mathematics, NIT Silchar.
- **Member:** Dr. Saurabh Verma, Department of Management Studies NIT Silchar
- **Member:** Dr. Biplob Das, Department of Mechanical Engineering, NIT Silchar

C. Resource strength (Human capital and Physical capital) of the IIC institution

- Total No. of IIC Members: 59
- Total No. of IAs: 21
- Total No. of faculty Mentors: 39
- Pre-Incubation Units: 01
- Incubation Units: NIL (Proposal for setting up of iTBI is accepted for further processing submitted by DST to setup section 8 company)
- IP Facilitation Unit: 01
- Start-up Centre: 01

D. Facilities, Infrastructure of Pre-Incubation & Incubation kind and Student bodies/clubs engaged in promotion of Innovation and Entrepreneurship in the campus.

- Institute have dedicated **Innovation Lab** for the students and faculty members which is well equipped with high end equipment and machineries like **3D printer**, workstation which remain open 24x7 for students and faculties to carry out their work.
- A **Machine and the foundry shops** are also available for the innovators to prepare the desire physical products or prototypes.
- Institute have a well-furnished **Start-up Centre** fully air conditioned, equipped with high speed internet and Wi-Fi facility.
- Dedicated **conferences room and cubicles** for office functioning are also available for incubates.
- E-cell, Robotics Club, Machine Learning Club, Developers Club, Coding Club, Eco Club and institute level student Gymkhana council/bodies are engaged in promotion of Innovation and Entrepreneurship.
- IEEE Society Student Branch Chapters, ASME Student Chapter, ISTE Student Chapter, IEEE Sub Section are actively engaged in promoting I&E activities.
- All the registered incubates and start-up members are able to access all the high-end equipment available at the department/Central Instrumentation Facility and supercomputer for the innovation and entrepreneurial activities.

Institution's Innovation Council (IIC 6.0) activities and Implementations of Institute Innovations and start-up policy- IISP at National Institute of Technology Silchar for the session 2023-2024.



Sl. No	Event Title	Date of Activity conducted	Name of coordinator/ DSPOC	Participation details
1	One Day workshop on Innovation & Entrepreneurship Session	Date: - 3rd August 2024. Venue: Department of Mechanical Engineering, NIT Silchar. AMSE chapter	Dr. Biplap Das, Innovation Ambassadors	Number of approximate Students:153, No of faculty: 12, Number of outside students:47
2	Call for Pre-Incubation at Start-up for students of the institute	October 02,2023	Dr. Wasim Arif Convener IIC-NIT Silchar	11 Teams
3	An Orientation session in Youth Parliament on "Design Thinking, Critical Thinking and Innovation Design " for Atmanirbhar Bharat	November 04, 2023 at 2.00 PM at New Gallery	Organizing Team Members •Professor Rajat Gupta, Director NIT Silchar & President IIC 6.0 •Dr. Wasim Arif, Convenor IIC 6.0 •Dr. Ashish B Deoghare, Coordinator IIC 6.0	Total approximate Participation 45 Nos of UG/PG and PhD Students
4	Workshop on "Entrepreneurship Skill, Attitude and Behaviour Development" for Atmanirbhar Bharat:	November 03, 2023 at 5.00 PM at New Gallery	Organizing Team Members •Professor Rajat Gupta, Director NIT Silchar & President IIC 6.0 •Dr. Wasim Arif, Convenor IIC 6.0 •Dr. Ashish B Deoghare, Coordinator IIC 6.0	Total approximate Participation 48 Nos of UG/PG and PhD Students
5	A webinar 'How to Plan for Start-ups, Legal and Ethical Steps'.	Date: - 30th April 2024 from 04:00 PM onwards Online	Name of Speaker : Mr. Vivek Singh	40 approximate
6	IIC Regional Meet	Date: - 9 January 2024. Venue: The Assam Royal Global University Assam	•Dr. Wasim Arif, Convenor IIC 6.0 . Dr. Prashant J	02
7	Webinar on Intellectual property rights (IPR) and IP Management for startups	Date: 27th July,2024 Time: 11 AM Google Meeting Link: https://meet.google.com/pwx-xivu-kom Date: -	DR. SAURABH VERMA Innovation Ambassador IA	47 approximate
8	Interaction in Induction Programme for Class 2026 On Topic	Date August 10, 2024, at 11 AM Department of Business Administration Assam University	Dr. Wasim Arif Associate Professor & IIC 6.0 Convener	50 approximate



	Innovation and Entrepreneurship			
9	International Women's Day Celebrations	March 8 th 2024 IEEE chapter ECE Dept	Dr. Banani Basu, Associate Professor, ECE Dept	Total approximate Participation : 69 (Online & Offline)
10	Webinar on Lean Startup and Minimum Viable Product/Business as part of the Mentor-Mentee Program."	30 July, 2024 online	Speaker: Mr. Roshan Farhan, Founder of GoBillion and Myriad AI Coordinator Dr. Wasim Arif Associate Professor & IIC 6.0 Convener	Around 100 online participants
11	Two Days Exposure Visit Cum Training Program Mentor-Mentee Training Program	August 24 & 25, 2024	Dr. Wasim Arif Associate Professor & IIC 6.0 Convener	45 approximate
12	School visit Organized for DELHI PUBLIC SCHOOL SILCHAR	Date 17.11.2023 at 10:00 am	Dr. Biplap Das, Innovation Ambassadors	35 approximate
13	Creating and Managing YUKTI Innovation and IPR Repository	August 02, 2024 online at 11 am	Speaker: Mr. Dipan Kumar Sahoo Dr. Wasim Arif Associate Professor & IIC 6.0 Convener	45 approximate
14	Orientation cum Refreshers' Session on Institution's Innovation Council Objectives, Structure, and Operation for IIC Institutions	August 05, 2024 online at 11 am	Speaker: Mr. Dipan Kumar Sahoo Dr. Wasim Arif Associate Professor & IIC 6.0 Convener	47 approximate
15	Organized The live telecast of Vikshit Bharat@2047, An initiative launched by Our Hon'ble Prime Minister Shri Narendra Modi	At Bharat Ratna Dr. Bhupen Hazarika Auditorium on 11.12.2023	Speaker: Hon'ble Prime Minister Shri Narendra Modi Coordinator : Dr. Wasim Arif Associate Professor & IIC 6.0 Convener	49 approximate
16	Celebration of National Science Day 2024	At Bharat Ratna Dr. Bhupen Hazarika Auditorium on 28/02/2024 Department of Physics of NIT	Speaker : Prof. Arghya Taraphder from IIT Kharagpur Coordinator Dr. Pankaj Chaturvedi	90 approximate
17	'Dark Patterns Buster Hackathon 2023	At Bharat Ratna Dr. Bhupen Hazarika Auditorium on Jan 21-31, 2024	Dr. Koushik Guha And Dr. PARTHA PAKRAY	90 approximate
18	Celebrating the Fourth Anniversary of	July 29, 2024 at 4.00 pm online	Professor Rajat Gupta , President IIC 6.0	50 approximate



	National Education Policy-2020			
19	Workshop on Creating Innovators	Date: July 19 to 21,2024 Venue- Conference Hall	Coordinator- Ranjay Hazra, Ph.D. (Innovation Ambassador IA) Associate Professor Department of Electronics and Instrumentation Engineering	70 (online + Offline) approximate
20	Launch of 7th Edition Smart India Hackathon 2024	Date August 08,2024, at 10 am online	Speaker: Shri K Sanjay Murthy Secretary Ministry of Education	
21	Awareness Session on Smart India Hackathon 2024	Date August 27,2024 at 3.00 PM online	Speaker: Dr. Abhay Jere	
22	Internal Smart India Hackathon SIH-2023 National Institute of Technology Silchar AISHE code U-0055 Institution's Innovation Council IIC ID: 201810631	Date 23 & 24 September 2023	Professor Rajat Gupta, President IIC 6.0 •Dr. Wasim Arif, Convenor IIC 6.0 •Dr. Ashish B Deoghare, Coordinator IIC 6.0 & SPOC	258 approximate
23	Workshop on Process Design and Development Under the theme "INNOVATION AND TECHNOLOGY ENTERPRISE: IDEA TO ENTREPRENEURSHIP"	Date: 17th to 26 April,2024 Time: 4:00 PM Venue- Conference Hall (2nd floor), Department of Management Studies	conducted by Dr. Hari Krishna Garg, Associate Professor, Department of Electrical & Computer Engineering, National University of Singapore, Singapore Coordinator- Dr. Ashim Kumar Das (Innovation Ambassador IA) Associate Professor Department of Management Studies	75 approximate
24	Drone competitions	Date: August 09 to August 11,2024 Time: Each Day 08 hrs. Venue- Class Room 307	Electronics and Communication Society (ECS)	57+07 approximate
25	Motivational Talk "Career Development and Role of Electromagnetic Simulations in Product Design"	Date: 22nd September 2024 Time: 6.30 PM (IST) Registration Form Link: https://lnkd.in/dqU8nM6C GMeet Link: https://lnkd.in/dVuRvT3m	Dr. Taimoor Khan, Chair, IEEE APS Joint Section Chapter-Silchar, India	65 approximate



			Email: ktaimoor@ece.nits.a c.in Dr. Gaurav Singh Baghel, Secretary, IEEE APS Joint Section Chapter- Silchar, India Email: gaurav@ece.nits.ac.i n	
26	Talk on “ Integrated Solar-Panel Antennas”	Date: 30th August 2024 Time: 8.30 PM (IST)/9.00AM (MDT) Registration Form Link: https://forms.gle/nQ9fZnzqF61Akh89 GMeet Link: https://meet.google.com/yer-ftfn-trg	Dr. Taimoor Khan, Chair, IEEE APS Joint Section Chapter-Silchar, India Email: ktaimoor@ece.nits.a c.in Dr. Gaurav Singh Baghel, Secretary, IEEE APS Joint Section Chapter- Silchar, India Email: gaurav@ece.nits.ac.i n	59 approximate
27	Soft Skill Enhancement Workshop Self-Driven Activity	January 17 to 23, 2024 Class Room 307 New Gallery	Electronics and Communication Society (ECS)	75+10 approximate
28	Orientation Programme “ Innovation and Startup Policy” Self-Driven Activity	August 24, 2024 Class Room 307 New	Electronics and Communication Society (ECS)	100+ approximate

Flyers and Photographs





Mentee Institutes



Asansol Engineering College
Asansol, West Bengal



Sikkim Institute of Science and Technology
Sikkim



Arya Vidyapeeth College (Autonomous)
Guwahati, Assam



University of Science and Technology
Meghalaya



Lakhimpur Polytechnic
Lakhimpur, Assam

Hindi Cell



1. HEAD/ FACULTY IN-CHARGE:

Dr. Saurabh Verma, Assistant Professor and Faculty in Charge (FIC) Hindi Cell

2. HINDI CELL: AN OVERVIEW

With a view to ensuring compliance of the constitutional and legal provisions regarding official language and to promote the use of Hindi for the official purposes of the Institute, The Hindi Cell of National Institute of Technology Silchar came into existence with effect from 1st November 2011. The Hindi Cell follows the guidelines and the directives laid down by the Department of Official Language, Ministry of Home Affairs, Government of India.

The Hindi Cell (Rajbhasha Vibhaag) plays a crucial role in promoting the use and development of the Hindi as an official language within the administrative contexts. It encourages the use of Hindi as a medium of instruction and communication, supporting its growth in various fields. It provides translation and interpretation services, ensuring that essential documents and research are accessible in the official language. It conducts campaigns to raise awareness about the importance of Hindi, promoting its use in everyday communication and within educational contexts. It also collaborates with various



educational and cultural institutions to promote Hindi initiatives, fostering a broader network of support for the language. Hindi Cell used to organize workshops and training sessions to improve Hindi proficiency among staff and students, promoting effective official communications. Overall, the Hindi Cell plays a vital role in not just promoting the language but also in fostering an inclusive and culturally rich academic environment.

The Hindi Cell of NIT Silchar serves as the head of the Town Official Language Implementation Committee (TOLIC) since 2013, with NIT Silchar taking a leading role in this initiative. The Town Official Language Implementation Committee (TOLIC) under the headship of NIT Silchar is playing a remarkable role in promoting the use of Hindi and other regional languages in town administration.

3. DEPARTMENT OFFICIAL LANGUAGE IMPLEMENTATION COMMITTEE (DOLIC):

The Department Official Language Implementation Committee known as DOLIC came into existence in the Year 2012. The main aim of this committee is to look after the progress made towards the adoption of Hindi Official Language in the routine official works of the institute.

Sr. No.	Name of the officials	Designation
1	Prof. Dilip Kumar Baidya	Chairman
2	Dr. Saurabh Verma	Secretary
3	Registrar	Member
4	All Deans	Member
5	All Head of the Departments	Member
6	All Branch Heads	Member
7	Chairman, Central Library	Member

4. HINDI WORKING COMMITTEE:

The Hindi working committee has been constituted under the Department Official Language Implementation Committee (DOLIC) of the institute to ensure the effective implementation of Hindi as an official language in administrative and academic settings. The Hindi working committee constitutes with the following members:



Sr. No.	Name of the officials	Designation
1	Prof. Dilip Kumar Baidya	Chairman
2	Dr. Saurabh Verma, DoMS	Secretary
3	Dr. Arun Kumar, ECE	Member
4	Dr. Yogesh Singh, ME	Member
5	Dr. Ambarish Devanshu, EE	Member
6	Dr. Shivendra Kumar Pandey, E&I	Member
7	Dr. Vipin Chandra Pal, E&I	Member
8	Dr. Nitesh Ahir, CE	Member
9	Dr. Badal Soni, CSE	Member
10	Dr. P.K. Gupta, Maths	Member
11	Dr. Biswa Nath Ghosh, Chemistry	Member
12	Dr. Pankaj Chaturvedi, Physics	Member
13	Mr. Rajib Kahar, Academics	Member
14	Mr. Kumar Mithilesh, CCC	Member
15	Mr. Niharendu Dhar, Accounts	Member
16	Mr. Pulak Nath, Establishment	Member
17	Mr. Subhradeep Dhar, Purchase	Member

5. FACILITIES PROVIDED BY THE HINDI CELL:

The Hindi Cell of the institute typically provides various facilities to promote the use and development of the Hindi language. Here are some common facilities offered:

- Language Training Programs:** Workshops and courses to enhance proficiency in Hindi for staff and students, focusing on speaking, writing, and comprehension skills.
- Translation Services:** Assistance in translating official documents such as Institute Annual Report, Thesis Titles, Research papers, and other materials into official language Hindi.
- Resource Materials:** Provision of Sogn boards, dictionaries, glossaries, style guides, and other educational resources to support the proper use of Hindi.
- Cultural Activities:** Organization of events such as 'Manthan' yearly Hindi program of the institute celebrated on the occasion of Hindi Diwas, competitions, and seminars that celebrate Hindi literature, culture, and heritage, fostering a vibrant language community.
- Support for Research:** Assistance for students and faculty in conducting research related to Hindi literature, linguistics, and other relevant fields.



6. **Technical Support:** Provision of software and tools that facilitate the use of Hindi in digital formats, including word processing and online communication.
7. **Networking Opportunities:** Facilitation of connections with other Hindi institutions, scholars, and organizations for collaboration and knowledge sharing.
8. **Feedback Mechanism:** Establishment of channels for receiving feedback and suggestions regarding Hindi language initiatives, helping to adapt and improve services. These facilities collectively contribute to creating an environment that encourages the use and appreciation of the Hindi language within the institute.

Glimpses of the celebration of Hindi Diwas

Hindi Diwas is celebrated every year in the Institute with full Zest and Jeal. It commemorates the adoption of Hindi as the official languages of India in 1949, promoting its status and importance in the country. The day highlights the rich literary and cultural heritage of Hindi, fostering appreciation for its literature, poetry, and traditions. Various events, workshops, and competitions organized on this day raise awareness about the importance of the Hindi language, its history, and its role in national identity. A number of Faculty Members, Administrative officers, Staff members and the students of the Institute have actively participated in the various programs organised on the eve of Hindi Diwas such as Hindi Essay Writing Competition and many others. The winners were awarded by the cash prizes.







Glimpses of the various meetings of TOLIC (Town Official Language Implementation Committee) conducted by the Hindi Cell of NIT Silchar

The Town Official Language Implementation Committee (TOLIC) meetings conducted by the Hindi Cell of NIT Silchar typically involve several key activities and discussions aimed at promoting the use of Hindi in official settings. Here are some glimpses of what these meetings might entail:

1. **Agenda Setting:** Discussion of the agenda for the meeting, including reviewing previous minutes and setting goals for the promotion of Hindi in local governance.

2. **Updates and Progress Reports:** Presentations on the progress made in implementing Hindi as an official language in various departments and organizations within the region.
3. **Challenges and Solutions:** Identification of challenges faced in promoting Hindi, such as resistance or lack of resources, along with brainstorming potential solutions.
4. **Workshops and Training Programs:** Planning and organizing workshops to train officials and employees in using Hindi for official communication, documentation, and correspondence.
5. **Public Awareness Campaigns:** Discussion on strategies for conducting awareness campaigns to encourage the use of Official Language Hindi in the community, including schools and local businesses

Glimpses of TOLIC Meeting







STUDENTS' ACTIVITIES

Students' activities come under the preview of Dean (SW). The office of the Dean (SW) consists of the following members:

DEAN (SW)		
Name	Qualification (e.g., B.Tech, M.Tech., Ph.D.)	Period
Prof. Pranjit Barman	Ph.D.	01/05/ 2021 to 31/12/2023
Prof. Siddhartha S Dhar	Ph.D.	01/01/ 2024 onwards
ASSOCIATE Deans (SW)		
Name	Qualification (e.g., B.Tech. M.Tech., Ph.D.)	Period
Dr. Sudipta Chakraborty	PhD	31/08/2022 onwards
Dr. Malaya Dutta Borah	PhD	30/11/2022 onwards
Dr. Biplab Das	PhD	28/12/2022 onwards
Dr. T.R.Lenka	PhD	20/01/2023 onwards

Scholarship / Assistantship Awarded to the students during 2023-2024:

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

SCHOLARSHIP DATA FOR THE YEAR 2023-2024					
Sl. No.	NAME OF THE SCHOLARSHIP	Awarding Authority	No. of students received the Scholarship	Amount of scholarships sanctioned	Remarks
1.	Central Sector Scholarship of Top Class Education Scheme for SC Students	Ministry of Social Justice & Empowerment	63	---	From the year 2021-2022 the Scholarship amount is directly transferred to the beneficiaries account through DBT mode



2.	National Fellowship and Scholarship for Higher Education of ST Students - Scholarship (Formally Top Class Education for Schedule Tribe Students) - only for scholarships	Ministry of Tribal Affairs	101	---	This amount was sanctioned & credited to the Institute's scholarship account in favour of the beneficiaries. Rest of the amount were directly transferred to the beneficiaries account through DBT mode
3.	Central sector scheme of scholarships for college and university students	Department of Higher Education	39	---	Scholarship amount directly transferred to the beneficiaries account through DBT mode
4.	Scholarship for top class education for students with disabilities	Department of Empowerment of Persons with Disabilities	12	---	Scholarship amount directly transferred to the beneficiaries account through DBT mode
5	Post matric scholarship for students with disabilities	Department of Empowerment of Persons with Disabilities	9	---	Scholarship amount directly transferred to the beneficiaries account through DBT mode
6	Merit-cum-means scholarship for professional and technical courses CS	Ministry of Minority Affairs	0	----	Scholarship amount directly transferred to the beneficiaries account through DBT mode
7	Umbrella scheme for education of ST children -post matric scholarship (PMS) for ST students Arunachal Pradesh	A Centrally Sponsored Scheme implemented by the State Governments and Union Territory Administrations.	15	----	Scholarship amount directly transferred to the beneficiaries account through DBT mode



8	Post matric scholarship for SC students Tripura	Ministry of Social Justice & Empowerment (Tripura)	0	---	Scholarship amount directly transferred to the beneficiaries account through DBT mode
9	Govt. of Telangana	District Tribal Welfare Office	0	---	
10	Swami Dayanand Merit-cum-Means Scholarships to students pursuing professional courses in India	Swami Dayanand Education Foundation	0	---	
11	Mukhya Mantri Medhavi Vidhyarthi Yojna [MMVY], Madhya Pradesh	Govt. of Madhya Pradesh	4	---	
12	Dr Ambedkar centrally sponsored post matric scholarship for EBC students Manipur	GOVERNMENT OF MANIPUR DIRECTORATE FOR WELFARE OF OBC & SC	0	--	Scholarship amount directly transferred to the beneficiaries account through DBT mode
13	Prime minister's scholarship scheme for central armed police Forces and Assam rifles	Ministry of Home Affairs, GOI	7	--	Scholarship amount directly transferred to the beneficiaries account through DBT mode
14	Post Matric Scholarship For SC Students - Assam	Ministry of SJE. Govt. of Assam	0	----	Scholarship amount directly transferred to the beneficiaries account through DBT mode
15	PG scholarship scheme for SC/ ST students for perusing Professional courses	University of Grants Commission (UGC)	4	---	Scholarship amount directly transferred to the beneficiaries account through DBT mode
16	Centrally sponsored scheme of post matric scholarship for St students-Ladakh	Ministry of Tribal Affairs Government of India	1	---	Scholarship amount directly transferred to the beneficiaries



					account through DBT mode
17	Umbrella scheme for education of ST children - post matric Scholarship (PMS) for ST students- Tripura	Ministry of Tribal Affairs Government of Tripura	0	---	Scholarship amount directly transferred to the beneficiaries account through DBT mode
18	Rajasthan Scholarship	Government of Rajasthan Social Justice and Empowerment Department	0	---	Scholarship amount directly transferred to the beneficiaries account through DBT mode
19	Siemens Scholarship Program - Empowering The Future	Siemens Limited	0	---	
20	Centrally sponsored post matric scholarship for SC Students- Manipur	Ministry of SJE Govt. of Manipur	1	---	Scholarship amount directly transferred to the beneficiaries account through DBT mode
21	ONGC Scholarship	ONGC	Data not shared by awarding authority	---	Data not shared by awarding authority
22	FAEA		Data not shared by awarding authority	---	Data not shared by awarding authority
23	SAMSUNG SCHOLARS PROGRAMME		Data not shared by awarding authority	---	
24	AJMAL FOUNDATION		Data not shared by awarding authority	---	
25	Medhavriti Scholarship- Odisha		Data not shared by awarding authority	---	
26	Rajasthan State Scholarship		0	---	
27	ISHAN UDAY	UGC	120	---	Scholarship amount directly transferred to



					the beneficiaries account through DBT mode
28	M.TECH ASSIATANTSHIP (GATE)	MOE, GOVT. OF INDIA	82	12400/-PM	
29	Financial Support To The Students of NER For Higher Professional Courses(NEC Merit Scholarship)	North Eastern Council(NEC), Do NER	52	---	
30	PG Indira Gandhi Scholarship For Single Girl Child		3	---	
31	Post Matric Scholarship To OBC Students - Assam	State Scheme Assam	30	---	
32	Prime Minister's Scholarship Scheme For Ministry Of Railways	Ministry of Railway	2	---	
33	PM Yasasvi Central Sector Scheme Of Top Class Education In College For OBC, EBC And DNT Students	Department of Social Justice & Empowerment (Backward classes)	115	---	
34	Infosys Foundation Stem Star Scholarship		Data not shared by awarding authority	---	
35	Engineers India Limited (EIL) Scholarship		Data not shared by awarding authority	---	
36	Winnie Sun Scholarship (Lotus Patel)	Lotus Petal Charitable Foundation,	01	32,600.00	
37	National Talent Search Scheme	NCERT	Data not shared by awarding authority	---	
No. of students					
664					



Apart from the aforesaid Scholarships, there are many scholarship schemes which follows DBT System under which the students get directly benefited through scholarship amount.

Moreover, many parents (guardians) of our students also avail reimbursement of educational expenditure from their employers like – BSNL, Railways, & other Govt. / PSUs on our recommendations.

Assistantships (Ph.D): Students admitted in the Ph. D programme in the institute are awarded Assistantship as per norms of GOI and Institute. To be eligible for this Assistantship, a student must be a regular non-sponsored student. Moreover, there are many more govt. sponsored fellowship which are being awarded based on their guidelines.

The data for those fellowship are as follows:

DOCTORAL FELLOWSHIP DATA FOR THE YEAR 2023-24 (APART FROM DOCORAL FELLOESHIP AWADED BY THE INSTITUTE TO THE GROUP A REGULAR SCHOLARS)					
<i>Sl. No.</i>	<i>NAME OF THE SCHOLARSHIP</i>	<i>Awarding Authority</i>	<i>No. of students received the Scholarship</i>	<i>Amount of scholarships sanctioned</i>	<i>Remarks</i>
1	CSIR	CSIR-HRDG	2	42000/- Per month per student	Fellowship amount directly transferred to the beneficiaries account through DBT mode
2.	NET-JRF	UGC	2	37000/- Per month per student	Fellowship amount directly transferred to the beneficiaries account through DBT mode
3.	Savitribai Jyotirao Phule Fellowship for Single Girl Child (SJS GC)	UGC	3	37000/- Per month per student	Fellowship amount directly transferred to the beneficiaries account through DBT mode
4.	National Fellowship for Higher Education of ST Students (NFST)	Ministry of Tribal Affairs Government of India	3	35000/- Per month per student 42000/- Per month per student 37000/- Per month per student	Fellowship amount directly transferred to the beneficiaries account through DBT mode
No. of students			-	10	

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

Events Organized:

The National Institute of Technology (NIT) Silchar places a strong emphasis on fostering the holistic development of its students by actively encouraging participation in sports and a wide array



of co-curricular pursuits. Students are deeply engaged in meaningful activities such as the National Cadet Corps (NCC), the National Service Scheme (NSS), and the institute's own outreach program, Gyansagar, alongside various other enriching initiatives. These endeavours are meticulously organized and overseen by the Students' Welfare Section, which collaborates seamlessly with the prestigious Gymkhana Union Body—elected student governance council entrusted with the responsibility of upholding the vibrant campus culture. Each year, the Gymkhana Union Body, in tandem with the administration, orchestrates a multitude of events and programs that span the spectrum from athletic competitions to community service, intellectual discourse, and cultural showcases. These activities not only cultivate leadership and teamwork but also still a sense of civic responsibility and personal growth. Through such dynamic engagement, NIT Silchar ensures that its students emerge as well-rounded individuals, poised to excel both academically and in broader societal contexts

Information regarding the students' activities under Office of the Dean (SW) during 2023-24 Session

Sl. No	Event Name	Date
1	Oikyotaan (This Fest was a vibrant regional cultural celebration that welcomed the arrival of spring. The festivities kicked off with a colourful cultural rally that filled the campus with energy and enthusiasm. As the day progressed, the excitement reached a crescendo with a dazzling cultural night held at the sports complex. The night featured a mesmerizing showcase of traditional dances, captivating musical performances, and enthralling cultural displays from various regions.	7 th April, 2023
2	Rongali Bihu The NIT Silchar campus was transformed into a vibrant celebration of Assamese culture as the institute hosted Bohag Bihu, a major spring festival in the region. Held at the institute's football ground, the festivities featured a delightful array of traditional activities, delicious Assamese cuisine, and plenty of fun for all. The event showcased the unique cultural heritage of Assam, with participants dressed in colourful traditional attire. The air was filled with the sounds of traditional Assamese music and dance performances, creating a festive and joyous atmosphere. Visitors had the opportunity to savour authentic Assamese delicacies, such as xamoor, pitha, and jilapi, while enjoying the lively and energetic ambiance.	14 th April, 2023
3	World Environment Day (Prokriti 3.0) To commemorate World Environment Day, the Eco Club, NIT Silchar community organized a series of events aimed at promoting environmental awareness and sustainable practices.	22 nd May – 7 th June, 2023
4	Euphoria (World Music Day) The Music Club celebrated World Music Day with Euphoria, a vibrant three-day virtual event.	19 th - 21 st June, 2023



5	International Yoga Day This event was hosted in the SAC building where the entire NIT Silchar fraternity joined together for performing yoga and pledging towards a healthy life	21 st June, 2023
6	International day against drug abuse and illicit trafficking Coordinated by the Eco Club, with various impactful events aimed at spreading awareness and educating the community about the ill effects of consuming drug substances and the importance of preventing illicit trafficking.	26 th June, 2023
7	Independence Day The 77 th Independence Day was celebrated in a span of 3 days with various parades by different hostels and other cultural performances by students. The children of KV, NIT Silchar also participated in this event.	15 th August, 2023
8	Independence Day - Nukkad Natak & Drama The Dramatics Club marked India's Independence Day by performing a Nukkad Natak (street play) and a drama at the campus	15 th August, 2023
9	Y20 Conclave A series of events to celebrate the youth	26 th August, 2023
10	Birth anniversary of Bhupen Hazarika This musical evening was celebrated in Food Court with many melodies that filled the day	8 th September, 2023
11	Script Writing Competition To nurture the creative writing skills of students, the Dramatics Club organized a Script Writing Competition	12 th September, 2023
12	Hindi Divas To celebrate the language Hindi, the Literary Publications and Fine Arts Society of the institute organized Manthan – a series of Linguistic competitions	14 th September, 2023
13	Khadi Mahotsav The Eco Club of NIT Silchar, in collaboration with several other campus clubs, celebrated Khadi Mahotsav, an event dedicated to promoting the use of Khadi and other handloom products.	2 nd - 31 st October, 2023
14	Sharad Utsav An event celebrated to welcome Devi Durga was hosted at the Guest House Auditorium during the autumn	15 th October, 2023
15	Kati Bihu 2023	17 th October, 2023



	Green Kati Bihu also known as Kongali Bihu was celebrated in the Gymkhana Park	
16	Garba Workshop A garba workshop was conducted by dance club for two days in the SAC	17 th -19 th October, 2023
17	Garba Night A grand workshop organized by the team of Aaveg, conducted in SAC building.	19 th October, 2023
18	Dandiya night To celebrate the eve of Navaratri, a Garba Dandiya event was held in the evening with grandeur in the Gymkhana Park	23 rd October, 2023
19	Virtual Live Session with Sweety Das The Music Club hosted an engaging virtual session featuring Sweety Das, a renowned upcoming Assamese singer, who shared her musical journey and insights with students.	27 th October, 2023
20	Unity Day and Unity Week 2023 To mark the birth anniversary of Sardar Vallabhbhai Patel, NIT Silchar celebrated Unity Week 2023 with a series of events culminating in Unity Day on October 31st. The week-long festivities aimed to foster a sense of unity and camaraderie among the student community. Various competitions, including debates, quizzes, and cultural performances, were organized to showcase the diversity and talent of the students. The highlight of the celebrations was the Ekta Daud, a unity run that brought together students from all backgrounds to symbolize their collective strength and commitment to national unity.	25 th - 31 st October, 2023
21	Vigilance Awareness Week Every year, the faculty, staff, and students at NIT Silchar actively engage in a range of anti- corruption activities, including workshops, awareness campaigns, and initiatives on the occasion of Vigilance Awareness Week. This year too, NIT Silchar was happy to contribute towards this noble initiative and Vigilance Awareness Week 2023 was celebrated with as much enthusiasm and joy in our campus.	31 st October – 5 th November, 2023
22	Freshers cum Orientation - SwagAtam The ultimate orientation event of Aaveg, the dance club of NIT Silchar, which was organized to introduce the club and its structure to the newly joined batch of '27	3 rd November, 2023
23	Celestial Beginning The "Celestial Beginning" served as a vibrant and harmonious orientation for the Batch of '27, hosted by the Music Club.	6 th November, 2023



24	Harmonies of the North "Harmonies of the North" was an electrifying jamming and open mic session orchestrated by the Music Club, held near the picturesque New Gallery.	7 th November, 2023
25	A Seminar on Sexual Exploitation and Abuse in India: On Trafficking by Rescue and Relief Foundation This seminar shed light on the pervasive issue of human trafficking in India, focusing on the sexual exploitation and abuse of vulnerable individuals. Experts discussed the various forms of trafficking, the root causes, and the devastating impact on victims. The seminar aimed to raise awareness, promote understanding, and advocate for stronger measures to combat this heinous crime.	8 th November, 2023
26	Jana Jatiya Gaurav Divas NIT Silchar commemorated Jana Jatiya Gaurav Divas to honor the diverse tribal communities of India. The celebration featured an exhibition showcasing the contributions of tribal freedom fighters and other notable figures. A variety of competitions were held to highlight the rich cultural heritage of these communities. The event served as a platform to promote tribal pride and raise awareness about their unique traditions and struggles.	15 th November, 2023
27	Chhath Puja NIT Silchar joined the nation in celebrating Chhath Puja, a unique festival that honors Chhathi Maiyan, the wife of the Sun God. This vibrant celebration, deeply rooted in the cultural heritage of Bihar, Uttar Pradesh, and other parts of India, was marked by a series of rituals and offerings.	19 th November, 2023
28	Rexian 2023 The annual alumni meet of NIT Silchar Rexian in 2023 was a grand success. The highlight of the event was welcoming the batch of 1997, who celebrated their 25th reunion. The alumni reconnected with their old friends, faculty, and staff, reminiscing about their college days and sharing their achievements. The event was filled with nostalgia, joy, and camaraderie.	18 th and 19 th November, 2023
29	Fit India Movement and Freedom Run (Ekta Daud) Various Fitness related activities are held regularly in the campus to promote fitness and one such activity is the Ekta Daud or Unity Run which is held on days of National Importance to promote Unity as well as Fitness	18 th - 25 th November, 2023
30	Spotlight The Dramatics club organized "Spotlight," exclusively for the new UG batch of 2027.	13 th January, 2024



31	Magh Bihu This harvest festival was celebrated in the cricket Ground with folk games and Assamese Cuisine	15 th January, 2024
32	Talent hunt 12.0 The Music Club organized a vibrant Talent Hunt for the new UG batch of 2027, offering first-year students a platform to showcase their musical talents.	16 th January, 2024
33	Republic Day 2024 NIT Silchar commemorated Republic Day with a vibrant celebration that showcased the spirit of Indian nationalism. The event featured a colorful parade, where students marched in formation, carrying flags and banners. Cultural performances, including traditional dances and patriotic songs, added to the festive atmosphere. The celebrations concluded with a flag-hoisting ceremony and a speech by the institute director, emphasizing the importance of unity, diversity, and democratic values. This day of national importance was celebrated in Football Ground	26 th January, 2024
34	Republic Day - Nukkad Natak On the occasion of Republic Day, the Dramatics Club performed a Nukkad Natak that focused on the importance of constitutional values, equality, and unity in diversity	26 th January, 2024
35	Guitar Workshop The Music Club organized an engaging two-day guitar workshop that provided students with an excellent platform to learn and enhance their skills with the instrument.	12 th -13 th February, 2024
36	StepWarz A dance battle event between the members of AAVEG, featured by 3 rounds where one group ultimately wins the title.	21 st February, 2024
37	International Mother Language Day 2024 A Rally to celebrate the various languages was organized and ended with a cultural evening with various other events in New Gallery	21 st February, 2024
38	FLASHMOB A public dancing event wherein a Team from AAVEG performed a brilliant sequence in the Goldighi Mall, welcoming everyone to the fresh Incandescence '24.	22 nd February, 2024
39	Tecnoesis 2024 Tecnoesis 2024, the annual techno-management fest of NIT Silchar, concluded with a spectacular Spark Night. The cultural extravaganza featured a dazzling array of performances, including dance, music, and drama. The highlight of the night was the electrifying performance by	1 st - 4 th February, 2024



	Underground Authority, a renowned music band that enthralled the audience with their energetic beats and captivating stage presence.	
40	Incandescence 2024 Incandescence 2024, the flagship cultural fest of NIT Silchar, was a four-day extravaganza that showcased the vibrant diversity of Indian culture. The event featured a variety of modules, including music, dance, drama, and literary competitions, spread across the NIT Silchar campus. The highlight of the fest was the Carpe Diem Night, where the renowned Bollywood singer Monali Thakur mesmerized the audience with her soulful voice and captivating stage presence.	23 rd – 26 th February, 2024
41	Shree Nandya It was presented by a group representing Aaveg on the main stage on Day-0 of Incandescence '24,	23 rd February, 2024
42	Natraaj <u>Pump It Up</u> features an ultimate dance competition wherein any solo person, a duo or a group can compete with each other to win exciting prizes. <u>Ground Zero</u> features the most awaited dance battle between dancers from all over India, battling to win	Pump It Up - 24 th February, 2024 Ground Zero - 25 th February, 2024
43	Indie Unplugged Indie Unplugged, a module under Incandescence, was organized by the Music Club near GH Back gate as the grand finale of the Melodies of Incand music competition.	24 th -25 th February, 2024
44	Battle of Bands The Music Club's Battle of the Bands, a key feature of Incandescence, brought together both student and semi-professional bands for an electrifying competition	26 th February, 2024
45	Foundation Day 2024 On 21 st February, 2024 NIT Silchar celebrated its 57 th foundation day. To mark this occasion many events were conducted which included a rally, tree plantation inside the campus, and cultural performance.	21 st February, 2024
46	Women's Day International Women's Day was celebrated at NIT Silchar with various events aimed at promoting gender equality and celebrating womanhood. The events served as a platform to raise awareness about women's rights, challenge gender stereotypes, and inspire positive change.	8 th March 2024
47	Posua 2024 The NIT Silchar Spring Fest was a vibrant celebration of Assamese culture, featuring a diverse array of events. The festivities kicked off with	30 th March, 2024



	a colorful cultural rally, showcasing the rich traditions and heritage of the region. The climax of the event was the grand cultural night held at the Sports Complex, where renowned Bollywood singer Nilotpal Borah took the stage, captivating the audience with his soulful melodies. The Spring Fest served as a platform to promote Assamese culture and foster a sense of unity and pride among the local community.	
48	Ugadi 2024 Ugadi, the New Year's Day according to the Hindu lunisolar calendar, was celebrated with great enthusiasm in 2023. The festival marks the beginning of a new year and is observed with traditional rituals and customs. People decorate their homes with colorful rangoli patterns, prepare special dishes like Ugadi Pachadi, and offer prayers to deities. Ugadi is a symbol of hope, new beginnings, and prosperity.	9 th April, 2024

INTER NIT PARTICIPATION

The Inter-NIT Games are a prestigious sporting event that brings together students from various NITs across India. These games provide a platform for talented athletes to showcase their skills and compete against their peers. The event features a wide range of sports, including cricket, football, basketball, volleyball, and many more. The games foster a spirit of sportsmanship, camaraderie, and healthy competition among the participating institutes. NIT Silchar is an avid participant in these games and often times we have emerged victorious in many such games.

Sl. No.	Sport	Participating Location
1	Kho Kho	NIT Warangal
2	Bodybuilding, Powerlifting and Weight Lifting	NIT Durgapur
3	Table Tennis	NIT Jamshedpur
4	Swimming	NIT Rourkela
5	Volleyball	NIT Kurukshetra
6	Football	NIT Durgapur
7	Basketball	MNIT Jaipur
8	Cricket	NIT Trichy
9	Handball and Kabaddi	NIT Surathkal
10	Athletics	NIT Warangal
11	Lawn Tennis	NIT Rourkela

In addition to these events, the **Mountaineering and Trekking Club, NIT Silchar**, went on a trek to **Namchi, Sikkim, India** for a period of one week in **January, 2024**.

AWARDS AND ACHIEVEMENTS

Achievements:

Following is the list of achievements of students in Inter NIT tournament during the year 2023-2024:



S No.	Event	Venue	Result	Winners
1	Power lifting	NIT Durgapur	Silver U-74kg	Sagar Verma
			Bronze U-59kg	Satyajit Dey
2	Swimming	NIT Rourkela	Gold (50m freestyle, 100m freestyle, 50m butterfly)	Abhishek Baruah
3	Kho-Kho	NIT Warangal	Silver	GIRLS: 1. Arthi Rathod Pathlavath 2. Rani Amgoth 3. Rani Kurakula 4. Renuka Emmadi 5. Thanuja Meda 6. Gandiboyina Sharmista 7. Amrutha Routhu 8. Vaishnavi Anapana 9. Lipi Bonia 10. Sanjana 11. Elegance Borgoary 12. Swarupa Chengala
4	Athletics	NIT Jaipur	Gold- 100m	Sagar Verma
			Bronze – 3000m	Megha Singh
5	Table Tennis	NIT Jamshedpur	Bronze	Men's Team 1. Armaan 2. Rajrupam Sarmah 3. Anurag Tamuli 4. Nibir Bora 5. Kaustav Dev



NCC-NIT Silchar

NCC-NIT Silchar is one of the Reputed structure in the uniform organisation in the campus. NCC-NIT silchar was lead By Lt. Dr. Rama Koteswara Rao Kondasan, Associate NCC Officer at NIT Silchar. It consisting of 108 Dynamic Senior Wing Army cadets taking professional Training under 3 Assam Battalion NCC Silchar, North Eastern Region (NER) Directorate, Shillong.

The NCC Cadets of NIT Silchar are a class apart. Their professional approach to various NCC activities has fetched accolades during various national level competitions. Their performance has always been consistent and commendable. Due to their high IQ level and a technical bent of mind, they tend to stand out in the crowd and execute the task with a finesse. In addition they possess a good sense of humor, which binds the team together and keeps everyone amused.



Lt. Dr. Rama Koteswara Rao Kondasani
Associate NCC Officer
Senior Division Boys, Army Wing



Few NCC Activities for the Year 2023-24

INDEPENDENCE DAY

On August 15, 2023, NIT Silchar celebrated the 77th Independence Day, where Cadets Nihal Singh and Ladli Verma were honored as Senior Under Officers during a Rank Ceremony led by our esteemed Director. The event highlighted their dedication, camaraderie, and the spirit of future leadership.



CLEANLINESS DRIVE

On March 5, 2024, the Cadets of NCC NIT Silchar, under the 62 Assam Girls Battalion and 3 Assam Battalion, conducted a cleanliness drive near the SAC Building, collecting plastic waste and promoting a sustainable campus through collective responsibility.



PLANTATION DRIVE

On October 2, 2023, the NCC at NIT Silchar organized a successful plantation drive, bringing together students, faculty, and Cadets to enhance campus greenery and promote environmental sustainability.





RASTRIYA EKTA DIWAS

On October 31, 2023, NIT Silchar celebrated Rashtriya Ekta Diwas with a pledge-taking ceremony and a "Run for Unity," led by Prof. Dilip Kumar Baidya, NCC Cadets, and Lt. Dr. Rama Koteswara Rao Kondasani.



BLOOD DONATION DRIVE

On August 15, 2023, NCC NIT Silchar hosted a Blood Donation Drive in celebration of Independence Day, showcasing unity and compassion with support from doctors and nurses. The Cadets reinforced their commitment to service and community impact.



DIWALI DONATION DRIVE

On November 1, 2023, NCC NIT Silchar celebrated Diwali with a 'Diwali Donation Drive,' distributing diyas and stationery to nearby villagers, fostering joy and connection through games and community interactions.





FIT INDIA CYCLE RALLY

On November 18, 2023, NCC NIT Silchar launched Fit India Week with a vibrant Cycle Rally from the Admin Block to SMCH, led by Prof. Dilip Kumar Baidya and Lieutenant Dr. Rama Koteswara Rao Kondasani, promoting health, unity, and an active lifestyle among Cadets and the campus community.



FREEDOM RUN

On November 23, 2023, NCC Cadets and NSS Volunteers participated in a spirited Freedom Run under the Fit India initiative, inspired by Director Prof. Diip Kumar Baidya and Associate NCC Officer Lt. Dr. Rama Koteswara Rao Kondasani showcasing unity and dedication to a healthier nation.





NCC DAY

On November 1, 2023, we celebrated NCC Day, honoring the legacy of the National Cadet Corps in fostering discipline, leadership, and civic responsibility among Cadets, while recognizing their invaluable contributions to a united and stronger India.



REPUBLIC DAY

On January 26, 2024, NCC Cadets, led by Senior Under Officer Nihal Singh, celebrated Republic Day with a disciplined parade and a captivating cane drill by Under Officer Atraya Ashish Chetia, honoring their nation's spirit and recognizing cherished seniors with certificates of appreciation.







BEST TECHNICAL INSTITUTION AWARD

On March 14, 2024, NIT Silchar was awarded "Best Technical Institute of North Eastern Region" for NCC activity, represented by Lt. Rama Koteswara Rao Kondasani and SUO Syed Intekhab Hussain, with esteemed dignitaries highlighting the importance of discipline and service.



Lt. Dr. Rama Koteswara Rao Kondasani, ANO, NIT Silchar (3 Assam Bn NCC) received the "Best Technical College" award on behalf of NIT Silchar from Lt. Gen. Gurbirpal Singh, PVSM, AVSM, VSM, DG, NCC in the Presence of Maj General. Gagan Deep, ADG, NCC Directorate NER in Narangi Military Cantt, Guwahati on 14 Mar 2024.





PLANTATION DRIVE

On April 22, 2024, NCC NIT Silchar celebrated World Earth Day with a tree plantation program, where Cadets from 3 Assam BN planted saplings in front of the SAC Building, pledging to create a greener, cleaner Earth.





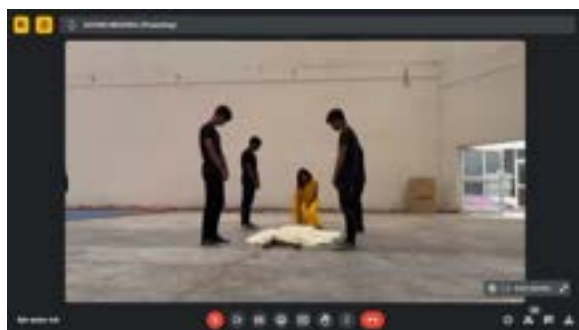
BLOOD DONATION DRIVE

On January 26, 2024, NCC NIT Silchar organized a successful Blood Donation Drive with dedicated support from doctors and nurses, showcasing Cadets' commitment to unity and compassion through collective action for those in need.



BLACK DAY

On February 14, 2024, NCC NIT Silchar commemorated the 5th anniversary of the Pulwama attack with an online tribute featuring performances and reflections by CC-SUO Syed Intekhab Hussain, UO Pranto Das, and SUO Ladli Verma, honoring the bravery of the 40 CRPF jawans.



EXTEMPORE AND DEBATE COMPETITION

On March 5, 2024, NCC NIT Silchar, alongside NSS, hosted a debate and extempore competition with an esteemed panel of judges, enhancing public speaking skills and fostering critical thinking among Cadets while discussing key national and international issues.



COMBINED ANNUAL TRAINING CAMP 107

From December 21 to 30, 2023, the Cadets of 3 Assam Battalion, NCC, participated in a transformative Combined Annual Training Camp (CATC) at NIT Silchar. The camp included rigorous training sessions in discipline, weapon handling, map reading, and disaster management, alongside engaging EXPA sessions and cultural activities. Commanding Officer Colonel Amod Chandana praised the Cadets for their dedication, fostering a strong sense of camaraderie and leadership that will guide them in future endeavors.





COMBINED ANNUAL TRAINING CAMP 114

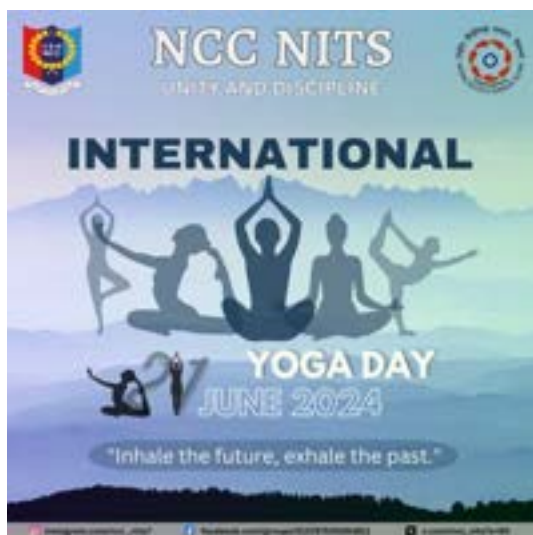
From January 1 to 10, 2024, NCC's CATC-114 at NIT Silchar, led by Colonel Amod Chandana, provided Cadets with a transformative experience emphasizing discipline, leadership, and teamwork. Highlights included a Tug of War event, a blood donation campaign, and achievements in various competitions, showcasing the Cadets' multifaceted talents and reinforcing their commitment to civic responsibility and national unity.





INTERNATIONAL YOGA DAY

On June 21, 2023, NCC NIT Silchar celebrated International Yoga Day with an online session featuring various yoga asanas to promote health and well-being. The event included demonstrations by Cadets and culminated in motivational insights, encouraging everyone to integrate yoga into their daily routines.



NATIONAL SERVICE SCHEME (NSS)

1. DIWALI DONATION DRIVE

On November 11, 2023, the NSS unit of NIT Silchar organized a Diwali donation drive in Babutla, funded by its volunteers. We distributed sweet boxes and diyas, fostering community connection and festive spirit. This initiative celebrated community spirit and generosity, leaving all participants fulfilled and happy.



fig 1



fig 2

DIWALI DONATION DRIVE

2. FIT INDIA MOVEMENT:

On November 23, 2023, the Fit India Freedom Run, a 5 km event, was successfully organized as part of the Fit India Movement. This initiative saw enthusiastic participation from NSS volunteers, professors, and students of NIT Silchar.

The event aimed to promote fitness and well-being within the community, fostering a spirit of solidarity and health awareness. Participants engaged actively, demonstrating a commitment to leading a healthier lifestyle.



fig 1



fig 2

FIT INDIA MOVEMENT



3. UNITY RUN:

On January 25, 2024, we celebrated the Unity Run in honor of Republic Day. NSS volunteers, professors, and students convened in front of the new gallery to participate in this event. The run was successfully executed, fostering a spirit of fitness and solidarity within the NIT Silchar community



fig 1



fig 2

UNITY RUN

4. BLOOD DONATION

On January 26, 2024, on the eve of Republic Day, NSS volunteers organized a blood donation camp in the SAC building.

The initiative aimed not only to commemorate the nation's sovereignty but also to highlight the importance of altruism and saving lives. The campus buzzed with activity as students and faculty members eagerly queued up to donate blood.

The volunteers facilitated the smooth operation of the camp and actively participated by donating blood. As a result, the event successfully collected as many as "150 units of blood", contributing to the local blood bank and reinforcing the spirit of service and community engagement among participants.



fig 1



fig 2

BLOOD DONATION

5. REPUBLIC DAY PARADE

On January 26, 2024, the NSS volunteers organized a parade in celebration of Republic Day. The event showcased the commitment and discipline of the volunteers, highlighting their dedication to community service and national pride.



fig 1



fig 2

REPUBLIC DAY PARADE

6. DESK CLEANLINESS DRIVE

On March 2, 2024, NSS volunteers undertook a cleaning initiative for the benches in both the new and old galleries, resulting in a more hygienic and conducive learning environment for students. This effort not only enhanced the facilities but also fostered a sense of responsibility and teamwork among the volunteers.



fig 1



fig 2

DESK CLEANLINESS DRIVE

7. SEMINAR ON WILDLIFE CONSERVATION

NSS NIT Silchar organized a speaker session on biodiversity, focusing on the flora and fauna of NIT Silchar, particularly reptiles. The session featured Mr. Trikal Chakraborty, a renowned wildlife conservationist, alongside his team members: Nabankur Das, Rakesh Hukie, Abani Pegu, Shanaka Kalita, and Partho Guha Roy, all active in rescue and rehabilitation efforts in the Artistic Barak Valley Cachar region.

The event successfully raised awareness about the ecological importance of local species and conservation strategies. Participants gained valuable insights, fostering a sense of responsibility



toward wildlife conservation and encouraging engagement in protective initiatives for the region's biodiversity.



fig 1



fig 2

SEMINAR ON WILDLIFE CONSERVATION

8. RIGHT TO VOTE AWARENESS IN VILLAGE

In 23rd March 2024, NSS NITS organized the "Voters' Guide" campaign, "Mera Pehla Vote Desh Ke Liye," to promote voter awareness in Cachar district. The volunteers engaged with villagers in Madhutilla and Babutilla, educating them about the Right to Vote and the process of creating voter IDs for eligible youth. They highlighted recent improvements in voting, including "polling at home" for the elderly and differently abled. This initiative successfully empowered citizens to embrace their democratic rights.



fig 1



fig 2

RIGHT TO VOTE AWARENESS IN VILLAGE

9. HEALTH CAMP NEAR VILLAGE

On April 4, 2024, the NSS unit of NIT Silchar organized a health camp in Babutilla Village, inviting doctor Dr Arindam Nath from the district hospital who provided free health check-up.

Villagers received valuable information on prevalent diseases and preventive measures, enhancing their health awareness. The camp fostered stronger ties between healthcare providers and the community, with discussions on future health initiatives planned. Overall, the

event significantly improved the well-being of the local population, and the NSS unit aims to continue promoting health in rural areas.



Fig 1



fig 2

HEALTH CAMP NEAR VILLAGE

10. SWACHHATA SURVEY IN NITS CAMPUS

On April 6, 2024, the NSS unit conducted a comprehensive analysis and survey of the campus waste disposal system. This initiative covered various locations, including lakes and academic buildings, allowing us to document critical findings and gather valuable insights.

Our upcoming report will detail the outcomes of this survey, including identified challenges and proposed solutions aimed at enhancing sustainability on campus.



Fig 1



Fig 2

SWACHHATA SURVEY IN NITS CAMPUS

11. LP SCHOOL DONATION DRIVE

On April 12, 2024, the NSS unit of NIT Silchar, in collaboration with Oikyotaan'24, successfully conducted a donation drive at LP School aimed at supporting underprivileged children. The



initiative involved distributing essential stationery items, including pens, pencils, notebooks, and other supplies, to enhance the educational resources available to these children. The event fostered a spirit of community service and awareness, engaging volunteers and participants in meaningful interactions. The outcome was highly positive, with numerous children benefiting from the donations, thereby encouraging their academic pursuits and promoting educational equity in the community.



fig 1



fig 2

LP SCHOOL DONATION DRIVE

12. VOTING AWARENESS AMONG HOUSEKEEPING STAFF

On April 24, 2024, the NSS Unit and Gyansagar conducted an election awareness drive for the housekeeping staff at NIT Silchar. The session aimed to educate the staff about their rights and responsibilities as voters, providing comprehensive information on the voting process.

The outcome of the drive was highly positive, with participants expressing increased awareness and confidence regarding their voting rights. Attendees engaged in discussions, clarifying doubts about the electoral process, which fostered a sense of empowerment and civic responsibility among the staff.



fig 1



fig 2

VOTING AWARENESS AMONG HOUSEKEEPING STAFF



INFRASTRUCTURE AND AMENITIES

Estate - An overview:

1. Historical Background

In the late fifties, the Government of India decided to establish Regional Engineering College under the Quality Technical Education 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 a joint venture of the Government of India and the respective State Government. Assam is a major state in the North-East of India and the 15th REC was officially established in Silchar in 1967. Though 14 other RECs started functioning within 1967, it took about another decade for REC, Silchar to start its academic programmes due to various constraints.

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

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

2. Location

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

3. Campus

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



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

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

4. Services

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

5. Staff Structure

(A) Administrative:			
Sl. No.	Staff / Officers	Designation	Remarks
1	Dr. Parthajit Roy	Dean (P&D)	Regular
2	Dr. Briti Sundar Sil	Associate Dean (P&D)	Regular
3	Dr. Nirmalendu Debnath	Associate Dean (P&D)	Regular
4	Dr. Rajeev Dey	Associate Dean (P&D)	Regular
5	Mr. Sikumar Chauhan	Assistant Engineer (E) & Estate (i/c)	Regular
6	Mr. Dhrubajyoti Chakraborty	Assistant Engineer (C)	Contractual
7	Dr. Biswajit Roy	Technical Officer	Contractual
8	Mr. Tapan Kumar Roy	Junior Engineer (E)	Contractual
9	Mr. Swapan Das Baisnab	Junior Engineer (E)	Contractual
(B) Supporting:			
Sl. No.	Staff/Officers	Designation	Remarks
1	Mr. Debabrata Barman	Sr. Assistant	Regular
2	Mr. Bipon Kr Sinha	Sr. Technician (Electrical)	Regular
3	Mr. Alok Kumar	Technician (Electrical)	Regular
4	Mr. Akash Dey	Technician (Civil)	Regular
5	Mr. Subasish Barman	Technician	Regular
6	Mr. Ashok Kurmi	Technician	Regular
7	Mr. Monoj Gopal Deb	Attendant SG-II	Regular



(C) Infrastructure details		
Sl. No.	Name of building	Area (Sqm)
Academic/ Administrative / Lab / Workshop		
1	New Administrative building	8846.36
2	Expansion of classroom	6974.00
3	Mechanical Workshop building	2588.00
4	Mechanical Department	1895.00
5	Civil Engg. Dept	2799.00
6	Electrical Engg. Dept.	1647.00
7	ETE building	1137.00
8	Central Store / Estate Branch	800.00
9	Library building (old)	975.60
10	Vertical Expansion Dispensary building	189.00
11	Old Administrative building	800.00
12	Classroom Expansion Pt. II	2800.00
13	Expansion of Physics Dept (ground floor)	470.00
14	Expansion of Physics Dept (first floor)	164.00
15	Expansion of Chemistry Dept (first floor)	470.00
16	Expansion of Chemistry Dept (ground floor)	164.00
17	CSE & ETE building (G+2)	7935.70
18	Humanities Dept (first floor)	105.00
19	Mathematics Dept (ground & first floor)	195.00
20	Training & placement dept (second floor)	386.00
21	Kendriya Vidyalaya	4642.70
22	New Library building	7987.77
23	Guest House (old)	216.00
24	Guest House (new)	4079.17
25	Post Office	118.57
26	Earthquake Engineering Laboratory	2734.00
27	Production Engineering Lab under Mech. Engg. Dept.	5361.00
28	New Academic building	7935.70
29	KID-NITS School	152.64
30	NABL building	790.56
31	Expansion of Electrical Engg. Dept	1152.41
	Sub Total (A) -	76511.18
Residential area hostels+ faculty + staff quarters		
1	Director's Bungalow	195.00
2	Professor quarters 7 units	1169.00
3	Asst. Prof. quarters 6 units	868.00
4	Type-D quarters 12 units	1344.00
5	Type-C quarters 8 units	480.00



6	Type-A quarters 12 units	540.00
7	Lecturer's quarters 15 units	1200.00
8	Teachers' Flat 12 units	590.00
9	Grade-III quarters 56 units	3600.00
10	Grade-IV quarters 30 units	1350.00
11	Type-VI(EL) Prof. qtrs. 12 units (old)	2466.00
12	Type-VI(EL) Prof. qtrs. 12 units (new)	2466.00
13	Type-V(E) Asst Prof. qtrs. 21 units (old)	2787.00
14	Type-V(E) Asst Prof. qtrs. 21 units (new)	2787.00
15	Type-IV(E) Lecturer qtrs. 30 units (old)	2556.40
16	Type-IV(E) Lecturer qtrs. 30 units (new)	2556.40
17	Type-III – 100 units	9923.04
18	KendriyalaVidyalaya qtrs.	1183.38
19	Boys Hostel No.1 (170 capacity)	3600.00
20	Boys Hostel No.2 (135 capacity)	2620.00
21	Boys Hostel No.3 (135 capacity)	2620.00
22	Boys Hostel No.4 (275 capacity)	5030.00
23	Boys Hostel No.5 (142 capacity)	2894.00
24	Boys Hostel No.6 (300 capacity)	7950.00
25	Boys Hostel No.7 (300 capacity)	7950.00
26	Boys Hostel No.8 (500 capacity)	20654.52
27	Boys Hostel No.9 (1000 capacity)	23560.00
28	Girls Hostel No.1 (185 capacity)	2114.00
29	Girls Hostel No.2 (212 capacity)	3303.00
30	Girls Hostel No.3 (104 capacity)	3303.00
31	300 capacity P.G Hostel & 100 capacity Married Scholar Hostel	12060.00
	Sub Total (B) -	135719.74
Sports facility & common facilities		
1	Dispensary building	156.00
2	NIT Café	416.00
3	Students Activity Centre	1145.00
4	Post Office	118.57
5	Eat-Out Dhaba	970.91
6	Sports Complex (Indoor & outdoor)	58823.41
	Sub Total (C) -	61629.89

Grand Total (A+B+C) = 273860.81



THE HOSTELS

BOARD OF HOSTEL MANAGEMENT

Name	Designation	Period
Dr. Sudipta Chakraborty	Member	31/08/2022 onwards
Dr. Malaya Dutta Borah	Member	30/11/2022 onwards
Dr. Biplab Das	Member	28/12/2022 onwards
Dr. T.R.Lenka	Vice Chairman	20/01/2023 onwards
All Asso. Wardens of Hostels	Members	

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

The Institute has **21 nos.** of hostels for the students inside the campus. 13 for the boys (UG/PG/PhD), 6 for the girl students (UG/PG/PhD) and one for family accommodation to the married Ph. D Scholars. Hostels' capacity varies from hostel to hostel. Available capacity of boys' hostels all together (UG/PG) is approximately 4000, the available capacity of girls' hostel (UG/PG) is approximately 800 and available capacity of Married Scholar Hostel is **56 flats**.

List of Asso. Wardens of Hostel

WARDENS				PERIOD	
Hostel No.	Name	Designation Warden/Assistant Warden	Department	From	To
BH-1	Dr. Santan Kumar	Warden	Mathematics	04/01/2023	31.03.2024
BH-2	Dr. Shankar K.	-DO-	E & I	06/04/2023	Till Date
BH-3	Dr. Kedar Nath Das	-DO-	Mathematics	24/09/2022	05.01.2024
	Dr. Biswanath Ghosh	-DO-	Chemistry	06.01.2024	Till Date
BH-4	Dr. Simanchal Kar	-DO-	ME	24/09/2022	Till Date
	Dr. Santosh Kumar	Assistant Warden	ME	04/01/2023	Till Date
BH-5	Dr. Vipin Chandra Pal	Warden	EI	10-02-2022	03.05.2024
BH-6	Dr. Chayan Bhattacharjee	Warden	EE	04/01/2023	Till Date



	Dr. Sreenu Sukumar	Assistant Warden	EE	04/01/2023	Till Date
BH-7	Dr. Sushant Negi	Warden	ME	24/09/2022	Till Date
	Dr. Parikshit Saikia	Assistant Warden	CSE	04/01/2023	Till Date
BH-8	Dr. Rajeev Nayan Gupta	Warden	ME	19/10/2022	Till Date
	Dr. Arun Kumar	Assistant Warden	ECE	01.01.2023	Till Date
9-A (JC BOSE HALL)	Dr. Prasanta Roy	Warden	EE	10/01/2023	Till Date
	Dr. Ambrish Devanshu	Assistant Warden	EE	10/01/2023	Till Date
9-B (S.Ram anujan Hall)	Dr. Anup Kumar Sharma	Warden	EI	17/03/2023	Till Date
9-C (C.V. Raman Hall)	Dr. Subrata Bera	Warden	Mathematics	11-01-2022	Till Date
9-D (Vikram Sarabhai Hall)	Dr. Vipin Chandra Pal	Warden	EI	10-02-2022	Till Date
	Dr. Jyotirmoy Haloi	Assistant Warden	CE	08.08.2023	Till Date
Aryabhata Hostel (PG Hostel)	Dr. Kavicharan Mummaneni	Warden	ECE	01/12/2022	Till Date
GH-1	Dr. Tripti Goel	Warden	ECE	30-03-2022	Till Date
GH-1 A	Dr. Asha Rani M.A.	Warden	EE	30-07-2021	Till Date
GH-1 B	Dr. Ambika Kutty	Assistant Warden	CE	10/08/2022	Till Date
GH-2	Dr. Sumitra Sharma	Warden	ME	02/12/2022	21/08/2023
	Dr. M.V. Swati	Warden	ECE	22.08.2023	Till Date
Gh-3	Dr. Chukhu Chunka	-DO-	CSE	26/11/2022	Till Date
	Dr. Risha Mal	-DO-	EE	20/02/2023	21.08.2023
GH-4	Dr. Binoti Patro	-DO-	Management Studies	26.03.2024	Till Date
MSH-A, B & C (A Lalitaa Hall)	Dr. Tanaya Nayak	-DO-	Management Studies	05/12/2022	Till Date
MSH	Dr. Jiwanjot Singh	-DO-	EE	10-01-2022	30.11.2023
	Dr. V. Kulkarni	Warden	CE	05.01.2024	Till Date



Following are the list of facilities available in the Hostels:

1. Chair, Table, Bed, Wardrobe, and Fan provided in each room
2. 24- Hour Reading Room facility.
3. Guest room and Seek room in each hostel.
4. Round the clock water supply and power supply.
5. Water cooler cum Purifier.
6. Solar panels installed in all hostels for hot water.
7. Diesel generator (centrally) available in case failure of power supply.
8. LAN/ Internet
9. Wi-Fi connection
10. Inverter.
11. TV Hall with LED TV & DTH Cable connection facility in each hostel.
12. Newspaper and Magazine.
13. Photocopier (Xerox)/Printer & Scanner in each hostel.
14. Ambulance service round the clock.
15. Coffee house provided.
16. Indoor game like, Table Tennis, carom, chess provided.
17. Hygienic kitchen with modern cooking Equipment provided.
18. Hygienic Dining hall with dining Table/chair provided
19. Fire Extinguisher provided.
20. Family accommodation and self-cooking facility in Married scholar hostel and foreign students hostel
21. Separate vehicle parking facility in married scholar hostel.
22. Bi-cycle stand provided in most of the hostels
23. Badminton court with lighting arrangement available

Following are the list of services available in the hostels:

1. Security service
2. CCTV Surveillance
3. Cleaning / House Keeping service
4. Food & catering service
5. Laundry services
6. Maintenance of civil, electrical, plumbing & sanitary services.
7. Maintenance of Aqua guard & cooling cum purifier service.
8. Managerial service provided for general maintenance.
9. Vehicle service provided for attending classes.
10. LPG Mechanic service is provided.



VEHICLE MANAGEMENT

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

Sl. No.	Vehicle Registration No.	Type of Vehicle	Purpose
01	AS11B-7736	Car (Tata Indigo)	Transportation of staff for administrative work, Training & Placement activities, Guest transportation
02	AS11CC-0712	Taxi (Force Traveller)	Transportation for Training & Placement activities, students, guests, and staff, both inside and outside the campus.
03	AS11E-2416	Van (Maruti Omne)	Official work and transportation of students and staff on a requirement basis.
04	AS11E-5501	Car (Maruti SX4)	Allocated as staff car (as Director's car)
05	AS11S4258	Ambulance (Force Cruiser)	Transportation of patient of NIT Silchar Campus dwellers (students, staff etc.) to health center/hospital.
06	AS11CC-9409	Ambulance (Tata Winger)	Transportation of patients from NIT Silchar Campus (students, staff, etc.) to health centers or hospitals.
07	AS11B-2701	Tractor	Engaged in the estate section for heavy material transportation
08	AS11B2702	Tractor (Trolley)	Engaged in the estate section for heavy material transportation
09	AS11B-0930	Bus	Student Transportation
10	AS11B-2703	Bus	Student Transportation
11	AS11X0966	Car (Tata Nexon)	Training & Placement activities, T & P, Guest transportation

INSTITUTE HEALTH CENTRE



- ✚ The Institute Health centre is located within the campus, it is located amidst the hostel/residential zone and the academic zone.
- ✚ The NITS Health centre provides primary health care round the clock on all days.
- ✚ NITS Health centre has casualty, Pharmacy, OPD facilities, OPD timings: 8 A.M to 8 P.M. 24 hours fully equipped ambulance, and a clinical laboratory working from 09:00 a.m. to 05:00 p.m.

PEOPLE

Chairman, Health Centre Committee: Prof. Mokaddes Ali Ahmed, Civil Engineering Department
 Medical Officer(s): Dr. Arindam Nath; Dr. Banibrata Chakraborty
 Visiting Consultants : Dr. Shiji Basheer (Medicine Specialist) & Dr. Sandhya Nair (Gynaecologist)
 Dental Surgeon: Dr. Suman Debnath, B.D.S
 Staff Nurse: Mrs. Shila Nath, Mrs. Moni Akura
 Pharmacist: Mr. Samanta Das; Mr. Sanjit Banik
 Laboratory Technician: Mr. Dipak Roy
 Student's Counsellor: Mrs. Bonita Nath

FACILITIES

The Emergency services are available 24/7, 365 days a year. All kinds of medical emergencies are managed effectively with the infrastructure and facilities.



MEDICAL EQUIPMENT

1. Physiotherapy Instruments.
2. Nebulizer
3. Autoclave.
4. Oxygen Tanks with flow-meter.

PHYSIOTHERAPY CLINIC

- Treatment for various musculoskeletal disorders, including post-operative cases, sports injuries, stroke, cerebral palsy.
- Pain management and Rehabilitation for sports injuries with corrective and conditioning exercises.

DENTAL CLINIC



The Health Centre has the facility to handle dental services such as scaling, filling, and extraction of a tooth.

AMBULANCE



24 x 7 (on all days)

Two ambulances are stationed at the institute Health centre. The ambulance is fully equipped with an oxygen cylinder, lifesaving drugs, first aid kit bag. The ambulance is provided with a Trained Emergency Medical Technician (a Paramedical Staff who will be able to operate all the

instruments installed in the ambulance), who is capable to deliver pre-hospital care to stabilize the patient and transport the patient to any impanelled hospital will first aid care.

CLINICAL LABORATORY: 9:00 a.m. to 5:00 p.m. (Monday to Saturday)

The clinical laboratory is fully functional with the latest equipment and reagents. Samples of blood, urine, mucous, stool, etc., are obtained from the patients referred to the clinical laboratory by the Medical Officers of Institute for the prescribed tests. The results of the tests are reported to the doctor on the same day by the lab technician. All the tests listed under the CGHS scheme are carried out for the students and eligible employees. Testing and waste management are followed as per NABL standards.



Clinical facilities available in NIT Silchar

PHARMACY

The pharmacy inside the institute hospital is fully functional with various range of regular and emergency medicines.

AWARENESS UPDATE

During the outbreak of **COVID-19 pandemic**, various protective measures and awareness programme has been introduced as per guidelines. Some of the key points are

1. Safe use of alcohol-based hand sanitizers.
2. Social Distancing.
3. Usage of a face mask.
4. Healthy diet.
5. Proper washing of hands.
6. Seek advice and help from Medical officers during an emergency.
7. Avoid stress and maintain good mental health.
8. Avoid gathering and eliminate the spread of infection.



VARIOUS ACTIVITIES INSIDE CAMPUS

1. Blood donation camp was organized inside campus in collaboration with SMCH Blood Bank.
2. Awareness programme against drug Abuse & illicit trafficking
3. Haemoglobin (Hb%) drive among the female students for screening of anemia

KENDRIYA VIDYALAYA NIT SILCHAR

The 10th Academic session for the year 2023-24 commenced from 1st April 2024. The total enrolment position of the students during the year was 946 (Nine Hundred Forty Six) with a very healthy distribution of 499 (Four Hundred Ninety Nine) boys and 447 (Four Hundred Forty seven) girls.

In 2023-24, a total of 73 students appeared in Class X Board Examination and 29 students appeared Class XII Board Examination. The result of the Board Examinations declared by CBSE for session 2023-24.

The achievement of students of our Vidyalaya are as follows: -

CBSE class XII Board Exam 2023-24

Dakshayani Sarma- 1st position in Science Stream with 93.4 % marks



Krish Swarnakar- 2nd position in science stream with 87.40 % marks

Biswarup Sarma- 3rd position in science stream with 84.2% marks

Class XI Home Examination: 2023-24

Antara Krishnam- 1st

Soumya Surya Nath Chaudhury-2nd

SauravDas-3rd

CBSE CLASS X Exam 2023-24

Arindam Shee -1st with 96% marks

Ayushman De -2nd with 93.8% marks

Abhiroop Biswas-3rd with 93.8% marks

Dipannita Medhi-4th with 93.6% marks

Arindam Shee was awarded with Rs. 5000/- cash prize by KVS for his academic achievement.

Ms. Marream Zuberi, TGT(English) and **Mr. Aniruddha Shome, TGT(Maths)**, received **Gold Category Certificate** for producing outstanding results and **Ms. Anita Meena, TGT(Hindi)** received **Silver Category Certificate** for producing high quality results in AISSE– 2024 (Class-X).

Ms. Manashi Datta, PGT(English) received **Gold Category Certificate** for producing outstanding results in AISSCE– 2024 (Class- XII).

Various games and sports activities are regularly organised as an integral part of the school curriculum in the Vidyalaya. Various events were held under Hindi Pakhwada, RSBVP (Regional Level), “Ek Bharat Shrestha Bharat”, Kala Utsav and various Olympiads. The main activities were such as Free Hand Exercises, Yoga Asanas, Fun & Fitness, Debates, Poster making, Essay & Poem writing Competition, Quizzes etc. Activities of Scout and Guides were also held such as Songs, Slogan writing, Poster making, Painting, Yoga, Celebrating of Constitution day, Thinking Day etc. Other activities include Bhasha Sangam, Pariksha pe Charcha, Group Song & Solo Song Competitions, and Essay Writing etc. were organized during the academic session. The Vidyalaya celebrates various days during the academic session that include Independence Day, Republic Day, Mathematics Day, Science Day, Constitution Day, KVS foundation day, Children’s Day, Teachers’ Day.

The Vidyalaya has got a state-of-the-art infrastructure that is well equipped with various facilities including 3 well-furnished Science Labs (Physics, Chemistry, Biology), 3 e-class rooms, one Digital Language Lab, Yoga Room, Games Room, Music Room and Dance Room, Work Education Room, Art Room, Medical Room, CMP Room, 2 Computer Labs, 1 Mathematics Lab, 1 Junior Science lab, 1 huge library with 4200 books on stock and subscription of 16 Magazines and 4 daily newspapers. Clean and well-maintained washrooms are situated in all corners of the building. The Vidyalaya has got a well-furnished building protected with strong boundary walls all around and a beautiful garden in the front.

A group of qualified teachers are engaged in the Vidyalaya for all-round development of the students in the. This School is running with a proper plan guided by KVS Regional Office, Silchar under the patronage of NIT Silchar.



KIDS-NITS

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

SPORTS COMPLEX & GYM

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

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

GUEST HOUSE

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

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 5.30 PM. Students and staff and people from the surrounding villages take advantage of the facilities of this Post Office.



BANK AND ATMS

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

SHOPPING COMPLEX

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

CAFETERIA

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



RESEARCH & CONSULTANCY

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

RESEARCH DEVELOPMENT:

Ph.D. Programme (specializations):

- (i) Civil Engineering
- (ii) Mechanical Engineering
- (iii) Electrical Engineering
- (iv) Electronics & Communication Engineering
- (v) Computer Science and Engineering
- (vi) Electronics and Instrumentation Engineering
- (vii) Humanities and Social Sciences
- (viii) Mathematics
- (ix) Chemistry
- (x) Physics
- (xi) Management Studies

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

Completed	Submitted	Ongoing
95	103	847

b. Sponsored Research Project:



SI No	Name of the Project	Project Coordinator	Total Amount Sanctioned in Rupees	Date of Sanctioning the grant	Name of the Funding Agency
1.	Development of Vibration Isolation System using Boreholes Filled with Geosynthetic Encased Sand Rubber Mixture	Dr. Debjit Bhowmik, CE Department, NIT Silchar	4128858	14.06.2023	SERB
2.	Sing Language Translator for Identification of Health Conditions of the Deaf and Dumb Population for Medical Attention	Dr. Ram Kumar Karch, ECE Department, NIT Silchar	4147616	24.04.2023	SERB
3.	Estimation of Quantitative Precipitation Errors (QPE) in Southern North East Region India using Radar Data	Dr. Briti Sundar Sil, CE Department, NIT Silchar	4755664	11.09.2023	MOES
4.	Application of non thermal atmospheric pressure plasma jet for conservation and preservation of heritage of odisha state	Dr.Srikanth Allamsetty, EE Department, NIT Silchar	1849000	13.06.2023	DST
5.	Development of a Vibration Isolation System using Boreholes Filled with Geosynthetic Encased Sand Rubber Mixture	Dr.Debjit Bhowmik, CE Department, NIT Silchar	998988	14.06.2023	CRG-SERB
6.	A Combined Control Strategy for Interior-Type Permanent Magnet Synchronous Generator Based Direct-Drive Wind Energy Conversion System	Dr.L.C.Saikia, EE Department, NIT Silchar	7469561	28.07.2023	SPARC



7.	Inclusive Economic Development of India via Digital STEM&L Education	Dr.Ranjay Hazra, EIE Department, NIT Silchar	4930720	28.07.2023	SPARC
8.	Defect engineered acid functionalized monolithic metal organic frameworks as a heterogeneous catalyst for biodiesel production	Dr. Samul Lalthazuala Rokhum Dept.of Chemistry	139500	08.07.2023	CSIR
9.	VAJRA	Dr. Taimoor Khan Dept.of ECE	1430000	22.06.2023	SERB
10.	Development of Secure and Spectral Efficient Simultaneous Wireless Information and Power Transfer Systems for Large -Scale Wireless Network	Dr. Devendra Singh Gurjar Dept.of ECE	1429500	30.05.2023	DST
11.	Development of sustainable and Flood Resilient Low-Cost Amphibious Housing System for the Vulnerable Communities in Assam	Dr. Jyotirmoy Haloi Dept.of CE	3061790	15.11.2023	SERB
12.	Design and Development of Low Power Low Latency Non Invasive Seizure Detector System	Prof. K.L. Baishnab Dept.of ECE	109.89 lakh	22.05.2023	MeitY-R&D
13.	SIRE	Dr.Yogesh Singh Dept.of ME	1692606	11.12.2023	SERB
14.	Robust Identification of metamaterial microstructures for efficient energy harvesting	Dr. Sudip Dey Dept. of ME	6738928	14.08.2023	SPARC



15.	Development of a machine learning framework to accelerate prediction of self heating driven reliability issues in emerging nanosheet transistors	Dr. Arun Kumar Dept. of ECE	1479680	15.11.2023	SERB-CRG
16.	Design and development of a microreactor for production of clean hydrogen gas	Dr. Binita Nath Dept. of ME	3264360	15.11.2023	RTGS-DST
17.	Reducing riders discomfort due to speed bumps without compromising their speed reduction abilities	Dr. Suprava Jana Dept. of CE	867416	11.09.2023	SERB
18.	Design and Development of Intelligent cyber physical System for Prediction Early Detection and Remote Monitoring of Alzheimers Disease in Real-Time using Bio-Multifunctional Smart Wearable Sensors	Dr. Badal Soni Dept. of CE	873972	09.02.2024	RTGS-SERB
19.	Canonization of Partition Literature and the Politics of Memorialization in South Asia	Dr. Avishek Ray Dept. of HSS	6233776	28.07.2023	SPARC
20.	Socio-Economic Impact Impact of Pradhan Mantri Bhartiya Janaushadhi Pariyojana In North Eastern States of India	Dr. Saurabh Verma Dept. of MS	700000	04.10.2023	ICSSR



21.	Indigenous Development of Artificial Intelligence based Performance Estimation and ewb Portal Tool for Hydraulic	Dr. Kavicharan Mummaneni Dept.of ECE	172500	23.09.2023	Svs Hydraulics Pvt.Ltd
22.	Wireless Network on Drone (WiND)	Dr. Ranjay Hazra Dept.of EIE	250000	06.10.2023	USA
23.	Comparative Study on the Implementation of Skill India Mission (PM Kaushal Vikas Yojana) in the Institutes of Assam and Delhi	Dr. Soma Panja Dept.of MS	1500000	03.10.2023	ICSSR
24.	Sustainable development of groundwater resources by the preparation of hydrogeological and hydrogeophysical database of barak river basin cachar Assam	Dr.Susmita Ghosh Dept.of CE	4677200	13.09.2023	SERB
25.	Investigation and analysis of Tunnel Field Effect Transistor (TFET) for the low Noise Ultra low power Analog /RF circuit design	Prof. S. Baishya Dept. of ECE	88000	14.07.2023	ICSSR
26.	Intelligent Speech-to-Speech Translation with Lip-Syncing for Educational Domain	Dr. Partha Pakray Dept. of CSE	2391297	18.01.2024	CRG-SERB
27.	RIS-Aided D2D Communication for 5G and beyond network	Dr. Ranjay Hazra Dept.of EIE	35137220	18.01.2024	CRG-SERB



28.	Community based Microencapsulated Phase Change Materials (MPCM) Assisted Hybrid Solar Agro-Processing Centers	Dr. Sudipta Halder, Dep. of ME	4900000	11.01.2024	NMHS
29.	Ideutity Management System based on Blckchain Technology	Dr. Ranjay Hazra Dept.of EIE	1639978	16.11.2023	SIRE-SERB
30.	Structural characterization and device performance of superlattice structure-based phase change memory for low power consumption and high-speed non-volatile data storage applications	Dr. Shivendra Kumar Pandey Dept.of EIE	3940687	19.01.2024	CRG-SERB
31.	Mathematical modelling for faasibility of low cost fuel (kerosene)in scramjet combustor enabled with air throttling	Dr. Pitambar Rambhau Randive Dept.of ME	660000	31.01.2024	Martics-SERB
32.	Design Study of High Power W Band Multi-Cavity Gyroklystron	Dr. M. V. Swati Dept .of ECE	9.9	17.01.2024	CARD-DRDO
33.	Elastodynamic Waves in Complex Stratified Structures: A Mathematical Approach	Dr. Santan Kumar Dept. Mathematics	1685400	15.12.2023	NBHM
34.	Induction heating via reversible disulfide bond grafted MXene for localized self-healing in thermoformable CFRP laminates	Dr. Sudipta Halder Dept. of ME	3670832	02.02.2024	SERB-DST



35.	Engineered superhydrophobic biomass-derived organocatalysts for biodiesel production: Process optimization using response surface methodology, kinetic studies and cost-analysis.	Dr. Samuel Lalthazuala Rokhum Dept. of Chemistry	1043001	23.01.2024	SERB
36.	Graph theory & Its heuristic algorithm in quantum annealing and computing	Dr. Anish Kumar Saha Dept. of CSE	USD 29000	25.04.2023	MeitY
37.	FIST-Chemical Sciences Level BC or D Project	Dr. Samuel Lalthazuala Rokhum Dept. of Chemistry	15000000	16.10.2023	FIST-DST
38.	Modeling of distribution and tracking of droplets for Agricultural spray AI assisted	Dr. Dipankar Bhanja Dept. of ME	660000	31.01.2024	Martics-SERB
39.	Development of smart solar photovoltaic system having encapsulated phase change material with artificial intelligence based real-time condition monitoring	Dr. Sudipta Halder, Dept. of ME	4623696	18.03.2024	SERB-DST
40.	Development of Design and Implementation Guidelines for an Eco-friendly and Sustainable Novel Vertical Drain Method to Improve Soft Clayey Soils using Sand-Filled Perforated Bamboos	Dr. Amit Kumar Das, Dept. of CE	3426568	02.02.2024	DST-SERB



41.	Design, Development, and Testing of Sediment Erosion-Resistive Micro-Hydro Turbine for off-grid application	Dr. Biplab Das, Dept. of ME	800000	10.04.2024	TIH-IIT Guwahati
42.	Dede Earth Bottle Maker	Dr. Tapan Pradhan Dept. of EE	683835	01.01.2024	MSME

C. Developmental Project:

Sl. No.	Name of the Project	Project Coordinator	Total Amount Sanctioned in Rupees	Date of Sanctioning the grant	Name of the Funding Agency
1.	Special Manpower Development Programme for CHIPS to System Design (SMDP-C2SD)	Dr. K.L. Baishnab, Department of Electronics & Communication Engineering	Rs. 997,200,000/-	15-12-2014	DeitY



STAFF POSITION

i. Chief Academic & Executive Officer (Position as on 31.03.24)

Position	Name
Director	Prof. Dilip Kumar Baidya

ii. Administrative Staff: (Position as on 31.03.24)

Name of the post	Sanctioned Strength	Staff in Position
Registrar	1	0
Deputy Registrar	3	2
Assistant Registrar	6	4
Librarian	1	0
Deputy Librarian	1	0
Assistant Librarian	1	1
SAS Officer	2	1
Sr. Technical Officer	1	1
Technical Officer	2	0
Executive Engineer	1	0
Engineer	2	0
Sr. Medical Officer	1	0
Medical Officer	2	2
Hindi Officer	1	0
Security Officer	2	0

iii. Academic Staff: (Position as on 31-03-2024)

Name of the Post	Sanctioned Strength	Staff in Position
Professor	282	34
Associate Professor		60
Assistant Professor		146
Trainee Teachers		01

iv. Faculty Position as on 31.03.2024 (Department-wise break up)

Sl. No.	Department	Professor	Associate Professor	Assistant Professor	Trainee Teachers	Total
1	Civil Engineering	8	10	23	0	41
2	Mechanical Engineering	3	13	22	0	38
3	Electrical Engineering	7	3	23	0	33
4	Electronics and Communication Engineering	6	10	17	1	34
5	Computer Science and Engineering	1	6	20	0	27
6	Electronics and Instrumentation Engineering	1	4	11	0	16
7	Mathematics	2	4	11	0	17
8	Physics	1	4	5	0	10
9	Chemistry	3	2	4	0	9
10	Humanities and Social Science	2	2	5	0	9
11	Management Studies	0	2	5	0	7

v. Ministerial Higher Staff (as on 31.03.2024)



Name of the Post	Sanctioned Strength	Staff in Position
Superintendent/Accountant/Secretary/Jr. Hindi Translator	10	7
Sr. Superintendent/ Sr. Accountant/ Sr. Secretary	8	0
Superintendent (SG-II) / Accountant (SG-II)/ Secretary (SG-II)	5	0

vi. Technical Higher Staff (as on 31.03.2024)

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

vii. Ministerial Lower Staff (as on 31.03.2024)

Name of the Post	Sanctioned Strength	Staff in Position
Junior Assistant/ Hindi Typist	21	1
Senior Assistant/ Stenographer	16	2
Assistant (SG-II)/ Sr. Stenographer	11	1

viii. Technical Lower Staff (as on 31.03.2024)

Name of the Post	Sanctioned Strength	Staff in Position
Technician/ Works Assistant/ Laboratory Assistant	38	24
Sr. Technician/Sr. Work Assistant/ Sr. Laboratory Assistant	28	9
Technician (SG-II)/ Works Assistant (SG-II)/ Laboratory Assistant (SG-II)	19	2

ix. Supporting Staff (as on 31.03.2024)

Name of the Post	Sanctioned Strength	Staff in Position
Attendant/ Mali	41	24

x. Fresh Appointments Non-Teaching (From 01-04-2023 to 31-03-2024): 38

Sl No.	Name	Designation	Date of Joining
1.	MS. RIMI NATH	SUPERINTENDENT	31/01/2024
2.	MR. NOBORAJ CHAKRABORTY	STENOGRAPHER	31/01/2024
3.	MR. GUDDU SINGH	SUPERINTENDENT	31/01/2024
4.	MS. MADHURITU BISWAS	SUPERINTENDENT	01/02/2024
5.	MR. AJITESH DHAR	SUPERINTENDENT	02/02/2024
6.	MR. BISHAL KANTI ROY	SUPERINTENDENT	08/02/2024
7.	MR. DEEPANJAL DEB	SUPERINTENDENT	09/02/2024
8.	MS. DRISTI DAS	SUPERINTENDENT	20/02/2024
9.	MR. BIPON KUMAR SINHA	SENIOR TECHNICIAN	13/03/2024
10.	MR. SUBHRAJEET DAS	SENIOR TECHNICIAN	13/03/2024
11.	MD. A K SADMAN A CHOUDHURY	TECHNICIAN	13/03/2024
12.	MR. ABHASH ACHARJEE	TECHNICIAN	13/03/2024
13.	MR. SIBANANDA SINHA	TECHNICIAN	13/03/2024
14.	MR. MANOJ KUMAR BHOWMIK	TECHNICIAN	14/03/2024
15.	MR. SUSHOVAN CHAKRABORTY	TECHNICIAN	14/03/2024
16.	MS. SANGITA DAS	SENIOR TECHNICIAN	14/03/2024



17.	MS. BAISHALI THAKURI	TECHNICIAN	14/03/2024
18.	MR. SURAJ DAS	TECHNICIAN	15/03/2024
19.	MS. PRITI BARMAN	TECHNICIAN	16/03/2024
20.	MR. KULDIP GUPTA	SENIOR TECHNICIAN	18/03/2024
21.	MR. SUBHAM RUDRA PAUL	TECHNICIAN	18/03/2024
22.	MR. BISWARAJ DAS	TECHNICIAN	18/03/2024
23.	MS. ANINDITA DAS	TECHNICIAN	18/03/2024
24.	MR. GULSHAN G	SENIOR TECHNICIAN	18/03/2024
25.	MS. TANNU PRIYA GUPTA	TECHNICIAN	19/03/2024
26.	MR. RAUSHAN KUMAR	TECHNICIAN	19/03/2024
27.	MR. RAHUL KUMAR	TECHNICIAN	19/03/2024
28.	MS. MANIDIPA PAUL	SENIOR TECHNICIAN	19/03/2024
29.	MR. ASHISH KUMAR	SENIOR TECHNICIAN	20/03/2024
30.	MR. PRADEEP KUMAR SONKAR	TECHNICIAN	21/03/2024
31.	MR. BAHARUL ISLAM MULLAH	TECHNICIAN	21/03/2024
32.	MR. UDAYAN DEBNATH	TECHNICIAN	22/03/2024
33.	MR. ANKIT KUMAR	ASSISTANT REGISTRAR	22/03/2024
34.	MR. ARVIND KUMAR	TECHNICIAN	23/03/2024
35.	MR. BHOLA CHAUHAN	TECHNICIAN	26/03/2024
36.	MR. SUDIPTA BIR	SENIOR TECHNICIAN	27/03/2024
37.	MR. ALOK KUMAR	TECHNICIAN	28/03/2024
38.	MR. DEBANGSHU SINHA	SENIOR TECHNICIAN	28/03/2024

xi. Fresh Appointments Teaching (During 2023-2024)

Sl No.	Name	Designation	Date of Joining
1.	DR. DIBYA NANDAN MISHRA	ASSISTANT PROFESSOR GRADE - II (10)	25/10/2023
2.	DR. SHANTI GOPAL PATRA	ASSISTANT PROFESSOR GRADE - II (10)	25/10/2023
3.	DR. PANKAJ CHATURVEDI	ASSISTANT PROFESSOR GRADE - II (10)	25/10/2023
4.	DR. BISWARUP GANGULY	ASSISTANT PROFESSOR GRADE - II (10)	30/10/2023
5.	DR. PANCHALI BHATTACHARYA	ASSISTANT PROFESSOR GRADE - II (10)	31/10/2023
6.	DR. M. SELVAM	ASSISTANT PROFESSOR GRADE - II (10)	01/11/2023
7.	DR. DINAMANI BISWAL	ASSISTANT PROFESSOR GRADE - II (10)	02/11/2023
8.	DR. SUBHADEEP BISWAS	ASSISTANT PROFESSOR GRADE - II (10)	06/11/2023
9.	DR. ARYAMAN SENSARMA	ASSISTANT PROFESSOR GRADE - II (10)	07/11/2023
10.	DR. OJING SIRAM	ASSISTANT PROFESSOR GRADE - II (10)	07/11/2023
11.	DR. SUSMITA RABHA	ASSISTANT PROFESSOR GRADE - II (10)	13/11/2023
12.	DR. SHASHI KUMAR G.K.	ASSISTANT PROFESSOR GRADE - II (10)	13/11/2023
13.	DR. UJJAL PROTIM DUTTA	ASSISTANT PROFESSOR GRADE - II (11)	14/11/2023
14.	DR. RAMAKRISHNA MANCHI	ASSISTANT PROFESSOR GRADE - II (10)	14/11/2023
15.	DR. PAPRI SUTAR	ASSISTANT PROFESSOR GRADE - II (10)	14/11/2023
16.	DR. RAJARSHI PRAMANIK	ASSISTANT PROFESSOR GRADE - II (10)	15/11/2023
17.	DR. BISWAJIT SAHOO	ASSISTANT PROFESSOR GRADE - II (10)	15/11/2023
18.	DR. DEBAYAN SARKAR	ASSISTANT PROFESSOR GRADE - II (10)	15/11/2023
19.	DR. ARIJIT JANA	ASSISTANT PROFESSOR GRADE - II (10)	16/11/2023
20.	DR. SUMALLYA MUKHOPADHYAY	ASSISTANT PROFESSOR GRADE - II (10)	16/11/2023
21.	DR. DEBBROTA PAUL CHOWDHURY	ASSISTANT PROFESSOR GRADE - II (10)	16/11/2023
22.	DR. AVIJIT DAS	ASSISTANT PROFESSOR GRADE - II (10)	17/11/2023
23.	DR. RAJESH SAHA	ASSISTANT PROFESSOR GRADE - I	21/11/2023
24.	DR. SUBHAJIT DAS	ASSISTANT PROFESSOR GRADE - II (10)	23/11/2023
25.	DR. DIPANJAN MUKHERJEE	ASSISTANT PROFESSOR GRADE - II (10)	30/11/2023



26.	DR. SUCHARITA CHAKRABORTY	ASSISTANT PROFESSOR GRADE - II (10)	07/12/2023
27.	DR. GAUTAM CHOUBEY	ASSISTANT PROFESSOR GRADE - II (10)	13/12/2023
28.	DR. APARAJITA DUTTA	ASSISTANT PROFESSOR GRADE - II (10)	18/12/2023
29.	DR. BHUPALI DUTTA	ASSISTANT PROFESSOR GRADE - II (10)	21/12/2023
30.	DR. SNEHASISH NANDY	ASSISTANT PROFESSOR GRADE - II (10)	28/12/2023
31.	DR. DIPJYOTI DAS	ASSISTANT PROFESSOR GRADE - II (10)	28/12/2023
32.	DR. SOMNATH SANTRA	ASSISTANT PROFESSOR GRADE - II (10)	01/01/2024

xii. **Appointmentsof Teaching (Contractual) (During 2023-2024): NIL**

xiii. **Retirement / Resignation(From 01-04-2023 to 31-03-2024):**

SI No.	Name	Designation	Date of Retirement / Resignation
1	Shri. Darpa Hari Das	Associate Professor	31-Jan-2024
2	Shri. Nandalal Kurmi	Office Attendant (SG-I)	31-July-2023
3	Shri. Musfique Ahmed Choudhury	Office Attendant (SG-I)	30-Nov-2023
4	Shri. Abdul Salam	Technician (SG-II)	30-Nov-2023
5	Shri. Rafique Uddin Laskar	Office Attendant (SG-I)	31-Dec-2023
6	Shri. Alim Uddin Ansari	Stenographer (SG-II)	31-Dec-2023
7	Shri. Adhir Ghose	Technician SG-II	31-Dec-2023
8	Shri. Hari Narayan Dusad	Office Attendant (SG-I)	31-Dec-2023
9	Shri. Kamal Uddin Laskar	Office Attendant (SG-I)	31-Dec-2023
10	Shri. Satyabrata Goswami,	Junior Assistant	31-Jan-2024

xiv. **Death in Harness(From 01-04-2023 to 31-03-2024): NIL**



GLIMPSES OF ANNUAL ACTIVITIES 2023-24

Oikyotaan



Rongali bihu



International Yoga Day



Anti Drug Day



Independence day





Bhupen Hazarika Birth Anniversary



Hindi Divas



Sharad Utsav





Kati Bihu



Garba Workshop



Unity Week





A Seminar on Sexual Exploitation and Abuse in India_ On Trafficking by Rescue and Relief Foundation



Jana Jatiya Gaurav Divas



Chhath Puja



Fit India Movement and Freedom Run(Ekta Daud)



Magh Bihu



Talent hunt 12.0



Republic Day 2024



International Mother Language Day 2024



Flashmob



Tecnoesis 2024



Incandescence 2024



Indie Unplugged



Battle of Bands



Posua 2024



Ugadi





CORPORATE SOCIAL RESPONSIBILITIES

GYANSAGAR

A step towards +ve change

1. ABOUT GYANSAGAR

Gyansagar is a social service wing of NIT Silchar, volunteered by the students of the institute which is encouraged and approved by Prof. Dilip Kumar Baidya, Director, N.I.T. Silchar. For the last many years, Gyansagar has put its efforts toward the development of society. The development is in terms of General Education, I.T. Education, Health Awareness, Job opportunity awareness, exploring the inherent qualities of kids in villages, etc.

Gyansagar worked with 200+ active and dedicated volunteers who are devoted for the upliftment of our society.

- **Faculty Coordinators:**
Dr. Sushant Negi & Dr. Anup Kumar Sharma
- **General Secretary:**
Mr. Rajeev Ranjan
- **Treasurer:**
Ms. Divya Singh

2. NATIONAL YOUTH DAY

Youth Day was celebrated on 12th January, 2024 to honour Swami Vivekananda's birth anniversary, with a focus on his teachings and youth empowerment. The event began with a lamp-lighting ceremony at the Administrative Block, symbolizing knowledge and enlightenment. Director, NIT Silchar and Professors shared inspiring thoughts on Swami Vivekananda's life, emphasizing his messages on self-confidence, discipline, and service to society.

As part of the celebration, various competitions were organized in nearby village schools of the institute. These activities encouraged students to reflect on Swami Vivekananda's ideals and express their creativity. The winners were awarded prizes for their participation.

Also a speech competition was organised for the students of NIT Silchar in institute's campus in which student from UG, PG and PhD programs had participated and express their views, thoughts on Swami's life lessons.

Following competitions were organized for nearby school students:

- Speech Competition
- Drawing Competition

Following are the schools in which the above competitions were organized: -

- LP School NIT Silchar
- Babutilla LP school
- Borakhai High school
- Ghungoor LP school



Some glimpses of the event at admin building of NIT Silchar (12th Jan., 2024)



Speech competition is being conducted at Borakhai High School



Organising drawing competitions & distributing the prizes at schools



Organising speech competition for students of the institute and distributing the prizes to the winners

PARAKRAM DIWAS

Parakram Diwas was celebrated on 23rd January, 2024 to honour the birth anniversary of Netaji Subhas Chandra Bose, celebrating his courage and patriotism. The event commenced with a lamp-lighting ceremony at the Administrative Block, symbolizing the spirit of bravery and determination. Director Sir and Professors shared inspiring reflections on Netaji's life, focusing on his relentless fight for India's freedom and his message of selfless service to the nation. Also there were some performance given by the Gyansagar volunteers in which reciting patriotic poems and singing patriotic songs were the best performances.

As part of the celebration, various competitions such as drawing and speech competition were organised for the students of Ek Prayas module of Gyansagar. These events encouraged students to explore the life of Netaji and express their thoughts on bravery, leadership, and national service. Winners were awarded prizes in recognition of their efforts and enthusiasm.



Speech and drawing competition organised for Ek Prayas students (23rd January, 2024)



Glimpses of the event at Administrative building (23rd January, 2024)



EK PRAYAS (TEACHING PROGRAM)

The Ek Prayas teaching program, an initiative of Gyansagar, was inaugurated on 20th February, 2024 with a lamp-lighting ceremony and Saraswati Vandana. The event aimed to support the education of children from nearby villages.

The Director, FIC, and professors delivered motivational speeches, highlighting the importance of education and encouraging students to pursue their studies diligently. Stationery items like notebooks, pencils, and bags were distributed to the students to aid in their learning.

The ceremony concluded with words of encouragement, inspiring students to work hard and utilize the opportunities provided by Ek Prayas for their educational growth.



Some glimpses of the event conducted on Ek Prayas (20th February, 2024)



ANNUAL ACCOUNTS FOR THE FINANCIAL YEAR 2023-24 National Institute of Technology Silchar



INDEX

A. BALANCE SHEET

B. INCOME AND EXPENDITURE ACCOUNT

C. SCHEDULES:

- a) Corpus/Capital Fund
- b) Designated/Earmarked/ Endowment Fund
- c) Current Liabilities and Provision
- d) Sponsored Project
- e) Sponsored Fellowship and Scholarship
- f) Schedule of Assets
- g) Patents and Copy Rights
- h) Investment of Earmarked/Endowment Funds
- i) Current Assets
- j) Loans, Advances and Deposits
- k) Academic Receipts
- l) Grant/Subsidies
- m) Income from Investment
- n) Interest Earned
- o) Other Income
- p) Prior Period Income
- q) Staff Payment and Benefits
- r) Employee Retirement and Terminal Benefits
- s) Academic Expenses
- t) Administrative & General Expenses
- u) Transportation Expenses
- v) Repair Maintenance
- w) Finance Cost, Other Expenses and Prior Period Expenses

D. NOTES ON ACCOUNTS

E. RECEIPTS AND PAYMENTS ACCOUNTs

F. Schedule of R&P Account (Plan, Non Plan & Projects)

G. G. P. FUND and NPS ACCOUNTs

H. Consultancy Account



महानिदेशक लेखा परीक्षा का कार्यालय
(केंद्रीय) , कोलकाता



O/O THE DIRECTOR GENERAL OF
AUDIT (CENTRAL), KOLKATA
8 K S Roy Road
GIP Building
Kolkata , West Bengal
PIN 700001

Ltr No: INSPECTION WING/2024-2025/DIS-2428671
Date: 07 Feb 2025

To,

The Director,
National Institute of Technology, Silchar,
Cachar, Assam,
PIN-788010

Subject: Separate Audit Report on the accounts of the National Institute of Technology, Silchar, for the financial year 2023-24

Sir/Madam,

A copy of the Separate Audit Report, alongwith Annexure, on the accounts of the National Institute of Technology, Silchar, for the financial year 2023-24, is forwarded to the Director, National Institute of Technology, Silchar, Cachar, Assam, PIN-788010 for information and necessary action.

Arrangement may please be made for preparation of Hindi Version of the Separate Audit Report, with Annexure, at your end, and sending the same directly to the Ministry.

It may please be ensured that the Audited Accounts and the Separate Audit Report, along with Annexure, are placed before the apex body, for consideration and adoption, before the same are sent to the Government for being placed in the Parliament.

Two copies of the printed Annual Report, for the financial year 2023-24 (both English and Hindi Version), containing the Audited Accounts and the Separate Audit Report, along with Annexure, as laid before the Parliament, may please be forwarded to this Office, for necessary action at this end.

Yours faithfully,

Encls: As above

Aditi Sharma
Director

Copy to:-

Ltr No : INSPECTION WING/2024-2025/DIS-2428671/C1/For Information

1 Finance and Accounts Wing, NIT Silchar, Assam for information and further necessary actions

Ltr No : INSPECTION WING/2024-2025/DIS-2428671/C2/For Information

2 OAD-AB Section, O/o the DGAC, Kolkata





☞ **Separate Audit Report of the Comptroller and Auditor General of India on the Accounts of the National Institute of Technology, Silchar, for the financial year ended 31st March 2024**

We have audited the attached Balance Sheet of the National Institute of Technology, Silchar, Assam, as at 31 March 2024, the Income and Expenditure Account and Receipts and Payments Account for the year ended on that date, under Section-19(2) of the Comptroller and Auditor General's (Duties, Power and Conditions of Service) Act, 1971, read with Section 22(2) of the National Institute of Technology Act, 2007. These financial statements are the responsibility of the Institute's management. Our responsibility is to express an opinion on these financial statements based on our audit.

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

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

4. Based on our audit, we report that:

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



- ii. The Balance Sheet and Income and Expenditure Account/Receipt and Payment Account, dealt with by this report, have been drawn up in terms of the Format of Accounts prescribed by the Ministry of Education (erstwhile Ministry of Human Resource Development), Government of India, vide order No. 29-4/2012-FD dated, 17 April 2015.
- iii. In our opinion, proper books of accounts and other relevant records have been maintained by the National Institute of Technology, Silchar, Assam, as required under Section 22(2) of the NIT Act, 2007, insofar as it appears from our examination of books.
- iv. We further report that:

Comments on Accounts

A. Balance Sheet

1.1 Liabilities

1.1.1 Corpus/Capital Fund (Schedule-1): 563.68 crore

a) Despite being pointed out in earlier Audit Reports, the Institute did not incorporate 25 nos. of savings/current accounts of NIT Silchar with the State Bank of India (SBI), NIT, Silchar branch, in the Annual Accounts for 2023-24. Out of the 25 Accounts, only one account (A/c No: 10521277046) has been incorporated, the remaining 24 nos of Accounts, having a combined balance of ₹12.19 crore as on 31 March 2023, are yet to be incorporated. Non-inclusion of the above bank balances resulted in understatement of the 'Current Assets' (Schedule-7) and 'Capital Funds' (Schedule-1) by ₹12.19 crore.

b) Despite mention in earlier Audit Reports, the NITS did not incorporate 10 nos. Fixed deposit accounts maintained with the State Bank of India (SBI), NIT, Silchar having a combined balance of ₹5.38 crore as on 31 March 2024. Non-inclusion of the above fixed deposits resulted in understatement of the 'Current Assets' (Schedule-7) and 'Capital Funds' (Schedule-1) by ₹5.38 crore.

c) The 'Corpus/Capital Fund' head was understated by ₹17.22 crore as the excess of income over expenditure for the year 2018-19 was added to the "Corpus Fund", maintained under the Designated/Earmarked/Endowment Funds (Schedule-2) instead of the "Capital Fund"



(Schedule-1) in contravention of MHRD guidelines and no rectification has been made till 31 March 2024, despite being mentioned in the previous year's audit report. This also resulted in overstatement of 'Designated/ Earmarked/Endowment Funds' (Schedule-2) by the same amount.

1.1.2 Current Liabilities and Provision (Schedule-3): ₹73.39 crore

a) The above head was understated by an amount of ₹7.97 lakh (10.62-2.65) due to non-consideration of liability for payment of AMC for 9 months. The Institute entered into a maintenance contract with Sify Technologies Limited for 3 years (27-03-2023 to 26-03-2026) for AMC on Network Switches and Wi-Fi Access Points. The total contract value was ₹31.86 lakh. (Each year- ₹10.62 lakh). During 2023-24 the Institute paid three months (27.03.23 to 26.06.23) AMC charge of ₹2.65 lakh and booked the same under "Repairs & Maintenance (Schedule-19)". However, no payment/provision for payment for the remaining 9 months of 2023-24 was made by the Institute. This has resulted in understatement of Corpus/Capital fund by ₹7.97 lakh.

b) Despite being mentioned in previous year's reports, the Institute, booked fixed assets of ₹19.92 crore created out of the closed sponsored project 'Technical Educational Quality Improvement Programme-I & II' and showed it under 'Current Liabilities & Provision' (Schedule-3), even though the ownership of these Assets had not been transferred to the Institute. This resulted in overstatement of both the 'Current Liabilities and provisions' (Schedule-3) and 'Fixed Assets' (Schedule-4) by ₹19.92 crore.

1.2 Assets

1.2.1 Fixed Assets (Schedule-4): ₹474.81 crore:

a) AC Installation Charges of ₹1,01,005 for Electronics & Communication Engineering and Networking Equipment Installation Charges of ₹1,34,384 for Computer Centre were booked under "Repairs & Maintenance." These installation charges totalling ₹2,35,289 were required to be capitalized under Fixed Assets. This resulted in understatement of Fixed Assets and Capital Fund by ₹2.35 lakh.



b) Despite being mentioned in previous Audit Report, the above head was overstated by an amount of ₹2.02 lakh, as during 2022-23, the Institute booked the amount (₹2.02 lakh) paid from its own fund to meet the shortage of fund (sanctioned ₹16.50 lakh as against cost of ₹18.52 lakh) for purchase of Fixed Asset (Vertical Injection Moulding Machine) in respect of SERB-SRG Project. The amount is required to be booked under Loans, Advances and Deposits as receivable from the Sponsoring Agency. This has also resulted in understatement of Loans, Advances and Deposits (Schedule 8) by the same amount.

c) The above head is understated by an amount of ₹33.59 lakh due to non-booking of electrical installations. The Institute had booked the expenditure as Revenue Expense under Repair and Maintenance in the Annual Accounts of 2022-23. Despite being mentioned in the previous year's Audit Report, the Institute has not taken any rectification measures in this regard. This also resulted in understatement of Capital Fund by the same amount.

1.2.2 Loans, Advances and Deposits (Schedule 8): ₹19.06 crore

The above head included ₹1.39 lakh under the head of "Shop & canteen Rent receivable", which is understated by ₹9.75 lakh (₹11.14-₹1.39) lakh as the "Rent Register" maintained by Estate Engineering Branch, NITS disclosed ₹11.14 lakh as receivable as on 31 March 2023. This resulted in understatement of Capital Fund (Schedule-1) also by the same amount.

B. General

2.1 Schedule 3 depicts an amount of ₹7,03,22,715/- under "Other Current Liabilities – Receipts against Sponsored Projects." However, Schedule 3A shows a closing balance of ₹7,06,82,715/- under the same head, resulting in a discrepancy of ₹3,60,000/-.

2.2 Outstanding Liabilities amounting to ₹1.91 Crore and ₹3.00 Crore were lying under head 'AICTE Project Funds' and 'Sponsored Project (R & D)' in "Current Liabilities and Provisions" (Schedule 3) since 2019-20 i.e. more than four years. The outstanding liability needs to be reviewed by the Institute for early disposal.

2.3 In contravention to the Formats of Financial Statements for Central Higher Educational Institutions issued by Ministry of Education, where the rate of depreciation on E-Journals/E-Books



was stipulated at 40% per annum on SLM, the Institute made a separate category of E-Book (Perpetual Assets) amounting to Rs.3.41 Crore, on which no depreciation was charged. This needs to be reviewed.

2.4 The Institute, during 2023-24, exhibited an expenditure of ₹65,000 on Patents under sub-schedule 4(C)(I)- Patents and Copy Rights. However, the same was not included under Intangible Assets (Patents) of the Institute in Schedule 4- Fixed Assets. This needs to be reviewed.

2.5 Bank Reconciliation Statements in respect of the Bank accounts maintained by the NIT, Silchar depicted 34 (Thirty Four) receipts amounting to Rs.0.06 crore pertaining to 2017-18 to 2021-22 that had not yet been credited by the SBI, NIT, Silchar to the respective account of the Institute as on 31.3.2024. Effective steps need to be taken with the bank.

2.6 The Institute did not possess any record (Asset Register, list of Assets with money value etc.) related to assets amounting to Rs.11.47 Crore created under 'Research and Consultancy' scheme of sponsored projects as disclosed in the Notes on Accounts.

2.7 Despite being mentioned in the previous year's report, no Actuarial Provision of Retirement Benefit was made by the Institute in concurrence with the Accounting Standards 15.

2.8 Current Liabilities and Provisions (Schedule-3) of Annual Accounts of the Institute were depicted an amount of ₹1.27 Crore as Un-classified receipts. The amount needs to be exhibited under proper concerned head.

2.9 Despite being mentioned in the previous Audit Report, "House Keeping" expense of ₹6.29 crore pertaining to the outsourced agencies towards labour charges for Gardening, cleaning services like jungle cutting and for housekeeping of hostel and others was wrongly booked under "Administrative & General Expenses (Schedule-17- ₹24.03 crore)", instead of "Repairs and Maintenance (Schedule-19- ₹5.93 crore)", as per the prescribed format of accounts.

2.10 Prior period expense on AMC for the period 01-07-2022 to 31-12-2022, amounting to ₹2.97 lakh was not exhibited separately as prior-period item, in contravention to the format of Accounts.



2.11 The Institute did not maintain separate bank account for each Designated, Earmarked and Endowment Funds (as shown in Schedule 2). Also, Schedule 2 showed in respect of 11 earmarked funds that closing balance of funds were lying with Institute A/c. Further, despite having fund balance in eight (8) Endowment Funds, no interest was found to be credited to these funds during 2023-24. This was in contravention to prescribed format of accounts.

2.12 As per the Annual Accounts 2023-24, under Schedule-2 (Designated/Earmarked/Endowment Funds), the Employee Welfare Fund has received an amount of ₹62,042/- during the year. However, this amount is not reflected under the Earmarked/Endowment Fund in the Receipt & Payment Account under the same head. This figures needs to be reconciled

2.13 Despite mention in the previous Audit Report, the Institute in contravention to the format prescribed by MoE (erstwhile MHRD), followed 'Written down value' method instead of Straight line method

2.14 As per the Annual Accounts for 2023-24, Schedule 8 (Loans, Advances and Deposits) indicates the following long pending issues:

a) An advance of ₹51.91 lakh was given to a Government organisation. This amount has remained unutilized for the past four years. The Institute needs to take appropriate action to utilize/adjust the advances.

b) Advance & other amount recoverable in cash or in kind or for value to be received amounting ₹39.70 lakh (Deposit Work ₹11.18 lakh + Others recoverable ₹28.52 lakh) pending for more than four years.

c) Receivable from Staff (EPF Subscription) amounting ₹27.08 lakh pending for more than six years.

d) Old receivable balance under 'Claims Receivable' amounting to ₹12.59 lakh pending for more than four years.

e) Advance to Employees amounting ₹8.49 lakh pending for more than four years.



2.15 Investment of term Deposit against Staff Development Fund was disclosed as ₹1.91 crore, whereas as per bank statement and FD certificate total Term Deposit against this fund was ₹2.26 crore. Similar observation was raised in previous Audit Report.

2.16 Despite mention in the previous Audit Report, necessary remedial measures in respect of the following issue were not taken.

- i. In contravention of MHRD format of Accounts, the Institute prepared combined Accounts for GPF and NPS.

2.17 Despite mention in the previous year's Audit Report, Schedule 4 (Fixed Assets), the Capital Work in Progress (CWIP) includes ₹60.29 lakh paid as consultancy fees to architects for proposed construction projects, lying unadjusted for over five years. Of the ₹60.29 lakhs, ₹33.98 lakh pertain to two projects that have since been foreclosed. It is necessary to take effective steps to remove these amounts from CWIP.

2.18 i) Despite mention in the previous year's Audit Report, Liabilities for Goods & Services amounting ₹37.41 lakh and Other Liabilities amounting ₹2.44 lakh remained undischarged for more than five years. Effective steps need to be taken to discharge the long pending liabilities. Further, ₹5.74 lakh, depicted under 'Other Funds', has been lying idle for last five years.

ii) Despite mention in the previous Audit Report, the Institute wrongly booked ₹39.06 lakh under the head 'Institute Overhead (Project)' in 'Other Income (Schedule 13) after adjusting expenditure of ₹9.43 lakh incurred towards such projects, instead of booking the entire amount of ₹48.49 lakh.

iii) Despite being mentioned in the previous audit report, Investment in term deposits pertaining to Corpus Fund/Capital Fund of ₹67.77 crore was shown under 'Investment Others' instead of 'Current Assets'.

2.19 Despite being highlighted in previous year's SAR, the Institute has yet to transfer its contribution towards the CPF (Contributory Provident Fund), including the accrued interest, amounting to ₹9.23 crore as of 2023-24, for 59 employees to the 'Pension Fund' under the head 'Designated/Earmarked/Endowment Funds' (Schedule-2), as per the decision taken in the 24th



- Finance Committee meeting. The omission in executing this transfer has resulted in an overstatement of the 'GPF Account' and an understatement of the 'Pension Fund' by ₹9.39 crore.

2.20 Assets valuing ₹16.20 crore depicted under Other Assets needs to be reviewed and reclassified under proper Assets head.

C. Grants-in-Aid

The Institute is mainly financed by the Grants received from the Government of India. During the financial year 2023-24, the Institute received total grants of Rs.158.87 Crore {Recurring General (OH-31): Rs.62.70 Crore, Recurring Salary (OH-36): Rs.70.67 Crore and Capital (OH-35): Rs.25.50 Crore}. The Institute had opening unspent balance of Rs.4.70 Crore {Capital (OH-35)}. Further, an amount of Rs.1.82 Crore {Capital (OH-35)} was lapsed during the year, leaving available fund of Rs.161.75 Crore {Recurring General (OH-31): Rs.62.70 Crore, Recurring Salary (OH-36): Rs.70.67 Crore and Capital (OH-35): Rs.28.38 Crore}.

Out of the available Grants of Rs.161.75 Crore, the Institute utilized Rs.157.05 Crore {Recurring General (OH-31) : Rs.62.70 Crore, Recurring Salary (OH-36) : Rs.70.67 Crore and Capital (OH-35) : Rs.24.60 Crore¹}, leaving unspent balance of Rs. 3.78 Crore² {Capital (OH-35)}.

D. Net Effects

The net effect of the comments given in preceding paragraphs was that both - the Assets, as well as the Liabilities - were overstated by ₹1.89 crore, as at 31st March 2024.

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

vi. In our opinion, and to the best of our information, and according to the explanations given to us, the said financial statements, read together with the Accounting Policies and Notes on Accounts, and subject to the significant matters stated above and other matters mentioned in the

¹ Total addition in Capital Fund (Sch.-1) for creation of fixed assets out of Govt. Grant is ₹24.60 crore, of which ₹23.68 crore was utilised from Grant of 2023-24 (depicted in Sch.-10).

² The unspent amount of Rs. 3.78 crore is lying with various agencies in the form of advances.



* Annexure to this Audit Report, give a true and fair view, in conformity with accounting principles

* generally accepted in India:

- a. insofar as it relates to the Balance Sheet, of the state of affairs of the National Institute of Technology, Silchar, as at 31 March 2024, and
- b. insofar as it relates to the Income and Expenditure Account of the *surplus*, for the year ended on that date.

For and on behalf of the C&AG of India

**(Uday Shankar Prasad)
Director General of Audit
(Central), Kolkata**

Place: Kolkata

Date: 07.02.2025



Annexure

A. Adequacy of the Internal Audit System

The Internal Audit System of the Institute is inadequate on account of the following:

- i. The Institute does not have any functional internal audit wing. Further, no internal audit has been conducted by any outsourced agency. Only one Internal Auditor has been appointed on contractual basis for pre-audit but no internal audit for the financial year 2023-24 has been conducted.
- ii. There is no Internal Audit Manual in use.

B. Adequacy of the Internal Control System

The Internal Control System of the Institute is inadequate in the following areas:

- i. Names of officials and the limits up to which they are authorized to sign cheques are not specified.
- ii. Cheque protectors are not used.
- iii. Persons connected with receipt of materials and keeping of receiving records, are not denied authority to issue purchase orders or to approve invoices.
- iv. List of employees, by designation, with limits of authority in respect of several matter related to purchases and creditors, is not maintained.
- v. Register of all fixed assets is not maintained.
- vi. Register of fixed assets is not written up throughout the year.
- vii. Certificate is not obtained from the bank for deposit receipts lodged as security.

C. System of Physical Verification of Assets and Inventories

The Institute has conducted physical verification of Fixed Assets and Inventories for FY 2023-24. However, no consolidated report on Physical Verification was prepared by the Institute.

D. Statutory Dues

Statutory dues of Rs.17.62 lakh pertaining to the period of 2023-24, have not yet been deposited to the respective Authorities, even after the lapse of more than 4 months from the end of the financial year 2023-24.





NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR
BALANCE SHEET AS AT 31ST MARCH 2024

Amount in Rupees			
SOURCES OF FUND	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
CORPUS / CAPITAL FUND	1	5,65,19,50,862	5,63,67,73,409
DESIGNATED / EARMARKED / ENDOWMENT FUNDS	2	1,46,11,02,344	1,32,39,64,771
CURRENT LIABILITIES AND PROVISIONS	3	73,39,26,390	25,38,51,654
TOTAL		7,84,69,79,596	7,21,45,89,833

APPLICATION OF FUNDS	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
FIXED ASSETS			
TANGIBLE ASSETS		4,63,56,90,266	4,59,79,23,230
INTANGIBLE ASSETS	4	11,24,48,275	9,36,05,788
CAPITAL WORKS-In-PROGRESS		5,73,31,393	60,29,191
INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	5	1,21,17,80,002	1,22,99,81,224
INVESTMENTS - OTHERS	6	91,79,52,119	87,06,41,513
CURRENT ASSETS	7	55,37,39,552	22,57,81,717
LOANS, ADVANCES AND DEPOSITS	8	35,80,37,989	19,06,27,170
TOTAL		7,84,69,79,596	7,21,45,89,833

SIGNIFICANT ACCOUNTING POLICIES
CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS

Date: The 15th July, 2024
Place: Silchar



23
24

Registrar
कुलसचिव

रा.नी.त. सिलचर-10
REGISTRAR
NIT SILCHAR-10
Annual Accounts 2023-24

Director
निदेशक

रा.नी.त. सिलचर-10
DIRECTOR
NIT SILCHAR-10



NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2024

		Amount in Rupees	
PARTICULARS	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
INCOME			
Academic Receipts	9	24,20,49,974	27,06,60,292
Grants /Subsidies	10	1,33,37,00,000	1,11,99,82,773
Income from Investment	11	7,14,00,203	2,14,01,943
Interest Earned	12	32,07,231	8,71,599
Other Income	13	19,43,94,384	35,90,58,077
Prior Period Income	14	-	-
TOTAL (A)		1,84,47,51,792	1,77,19,74,684
APPLICATION OF FUNDS			
EXPENDITURE			
Staff Payment & Benefits (Establishment Expenses)	15	90,98,21,870	80,73,48,905
Academic Expenses	16	20,44,89,211	19,55,62,602
Administrative and General Expenses	17	24,02,73,881	7,43,62,628
Transportation Expenses	18	49,76,967	45,26,933
Repairs & Maintenance	19	5,92,89,374	5,77,73,879
Finance Costs	20	17,565	23,506
Depreciation	4	13,80,99,162	30,96,78,789
Other Expenses	21	4,24,41,200	3,53,58,800
Prior Period Expenses	22	-	-
TOTAL (B)		1,59,94,09,230	1,48,46,36,043
Balance being excess of Income over Expenditure (A-B) before adjust of IRG		24,53,42,562	28,73,38,641
Less: Adjustment of IRG against excess expenditure during 2023-24		23,02,37,396	
Transferred to Corpus Fund		-	-
Building Fund		-	-
Others (specify)		-	-
Balance Being Surplus / (deficit) Carried to Capital Fund		1,51,05,166	28,73,38,641

23

24



SIGNIFICANT ACCOUNTING POLICIES
CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS

Date: The 15th July, 2024
Place: Silchar

Registrar
कुलसचिव
रा.डी.सं. सिलचर-10
REGISTRAR
NIT SILCHAR-10

Director
रा.डी.सं. सिलचर-10
DIRECTOR
NIT SILCHAR-10

Annual Accounts 2023-24 NIT SILCHAR-10



NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2024

SCHEDULE - 1 : CAPITAL FUND

		Amount in Rupees	
	Particulars	CURRENT YEAR	PREVIOUS YEAR
A.	CAPITAL FUND : Balance at the beginning of the year	5,63,67,73,409	5,54,62,14,562
Add:	Reappropriation of Capital Fund from Corpus of earlier year (as per Audit Comment pertaining to FY 2018-19 against excess of Inc. over Exp)	-	-
Add:	Excess of Income over Expenditure transferred from Income & Exp A/C	1,51,05,166	28,73,38,641
Less:	Depreciation on Capital Assets	13,80,99,162	30,96,78,789
Less:	Adjustment of excess expenditure related to FY 2023-24 as per direction of 98th BoG meeting	11,02,72,207	-
	Total	5,40,35,07,205	5,52,38,74,414
Add:	Grants from Govt. of India to the extent utilized for Capital expenditure	24,60,10,887	11,28,98,995
Add:	Interest earned from Investment on Corpus/Capital fund	4,84,558	-
Add:	Interest accrued during the year but not received	19,48,212	-
Add:	Unclaimed Liability W/off	-	-
	BALANCE AT THE YEAR END	5,65,19,50,862	5,63,67,73,409

Date: The 15th July, 2024

Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2024
SCHEDULE - 2 : DESIGNATED / EARMARKED / ENDOWMENT FUNDS

Particulars	Fund wise Breakup					Total	
	Pension Fund	Depreciation Fund	Maintenance Fund	Staff Dev. Fund	Student Welfare Fund	Current Year	Previous Year
(1): A.							
a) Opening Balance	-	22,19,41,037	21,58,73,548	2,68,40,249	14,93,813	46,61,48,647	44,65,80,797
b) Additions during the year	64,74,372	36,33,482	12,45,542	15,57,579	-	1,29,10,975	1,35,66,334
c) Income from Investments made of the funds	-	8,76,401	8,05,174	37,161	-	17,18,736	1,11,32,910
d) Accrued Interest on Investments	-	1,97,04,165	1,44,96,967	16,02,847	-	3,58,03,979	65,37,708
e) Interest on Savings Bank a/c.	-	16,781	23,826	4,165	-	44,772	43,491
f) Interest on TDS Received	-	-	-	-	-	-	-
Less: Excess Provision of TDS on accrued interest	-	-	-	-	-	-	-
Total (A)	64,74,372	24,61,71,866	23,24,45,057	3,00,42,001	14,93,813	51,66,27,109	47,78,61,240
B : Utilization /Expenditure towards objective of funds							
i) Capital Expenditure	-	-	-	-	-	-	-
ii) Revenue Expenditure	64,74,372	-	-	-	-	64,74,372	1,17,12,592
Total (B)	64,74,372	-	-	-	-	64,74,372	1,17,12,592
Closing balance at the year end (1) (A-B)	-	24,61,71,866	23,24,45,057	3,00,42,001	14,93,813	51,01,52,737	46,61,48,648
Represented by							
Cash and Bank Balances	-	6,30,750	8,95,500	1,56,577	-	16,82,827	16,38,055
Investment	-	16,97,33,248	16,81,69,399	1,90,57,487	-	35,69,60,134	35,34,54,883
SBI MF (Savings Fund)	-	4,24,50,000	3,90,00,000	18,00,000	-	8,32,50,000	8,32,50,000
Interest accrued but not due	-	2,55,03,520	2,20,61,988	40,64,338	-	5,16,29,846	1,76,12,382
TDS Receivable	-	-	-	-	-	-	-
Balance lying with Institute A/c	-	78,54,348	23,18,170	49,63,599	14,93,813	1,66,29,930	1,01,93,328
Total	-	24,61,71,866	23,24,45,057	3,00,42,001	14,93,813	51,01,52,737	46,61,48,648

Annual Accounts 2023-24





NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2024
SCHEDULE - 2 : DESIGNATED / EARMARKED / ENDOWMENT FUNDS

Particulars	Fund wise Breakup					Total	
	Instt. Dev. Fund	Employees Welfare Fund	Deptt. Promotion Fund	Virtual Class Room	NMEICT Fund	Current Year	Previous Year
(2) : A							
a) Opening Balance	61,69,342	11,77,053	61,69,342	1,91,656	1,42,420	1,38,49,813	1,11,18,133
b) Additions during the year	-	62,042	-	-	-	62,042	27,51,680
c) Income from Investments made of the funds	-	-	-	-	-	-	-
d) Accrued Interest on Investments/Advances	-	-	-	-	-	-	-
e) Interest on Savings Bank a/c.	-	-	-	-	-	-	-
f) Other additions (specify nature)	-	-	-	-	-	-	-
Total (A)	61,69,342	12,39,095	61,69,342	1,91,656	1,42,420	1,39,11,855	1,38,49,813
B : Utilization /Expenditure towards objective of funds							
i) Capital Expenditure	-	-	-	-	-	-	-
ii) Revenue Expenditure	-	-	-	-	-	-	20,000
Total (B)	-	-	-	-	-	-	20,000
Closing balance at the year end (2): (A-B)	61,69,342	12,39,095	61,69,342	1,91,656	1,42,420	1,39,11,855	1,38,49,813
Represented by							
Cash and Bank Balances	-	-	-	-	-	-	-
Investment	-	-	-	-	-	-	-
Interest accrued but not due	-	-	-	-	-	-	-
Balance lying with Institute A/c	61,69,342	12,39,095	61,69,342	1,91,656	1,42,420	1,39,11,855	1,38,49,813
Total	61,69,342	12,39,095	61,69,342	1,91,656	1,42,420	1,39,11,855	1,38,49,813





NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2024
SCHEDULE - 2 : DESIGNATED / EARMARKED / ENDOWMENT FUNDS

Particulars	Fund wise Breakup					Amount in Rupees	
	Student Aid Fund	Corpus Fund				Current Year	Previous Year
(3) : A.							
a) Opening Balance	-	83,28,80,038	-	-	-	84,39,66,310	80,46,34,053
b) Additions during the year	1,10,86,272	34,27,194	-	-	-	46,59,894	48,70,200
c) Income from Investments made of the funds	12,32,700	66,73,658	-	-	-	66,73,658	1,15,04,007
d) Accrued Interest on Investments	-	8,16,46,766	-	-	-	8,16,46,766	2,29,39,141
e) Interest on Savings Bank a/c.	-	91,123	-	-	-	91,123	82,344
f) Interest on TDS Received	-	-	-	-	-	-	-
Less: Excess Provision of TDS on accrued interest	-	-	-	-	-	-	-
Less: Adjustment of Excess Inc over Exp. related to FY 2018-19 with Capital fund during the FY (as per Audit comment)	-	-	-	-	-	-	-
Total (A)	1,23,18,972	92,47,18,780	-	-	-	93,70,37,752	84,40,29,744
B : Utilization /Expenditure towards objective of funds							
i) Capital Expenditure	-	-	-	-	-	-	-
ii) Revenue Expenditure	-	-	-	-	-	-	63,434
Total (B)	-	-	-	-	-	-	63,434
Closing balance at the year end (3): (A-B)	1,23,18,972	92,47,18,780	-	-	-	93,70,37,752	84,39,66,310
Represented by							
Cash and Bank Balances	-	27,49,384	-	-	-	27,49,384	26,76,236
Investment	-	44,83,19,868	-	-	-	44,83,19,868	43,52,18,451
SBI MF (Savings Fund)	-	32,32,50,000	-	-	-	32,32,50,000	32,32,50,000
Interest accrued but not due	-	12,58,07,931	-	-	-	12,58,07,931	5,05,88,924
TDS Receivable	-	-	-	-	-	-	-
Balance lying with Institute A/c	1,23,18,972	2,45,91,596	-	-	-	3,69,10,568	3,22,32,700
Total	1,23,18,972	92,47,18,780	-	-	-	93,70,37,752	84,39,66,310
Closing balance at the year end (1+2+3)	61,69,342	25,97,29,933	1,16,33,33,179	3,02,33,657	16,36,233	1,46,11,02,344	1,32,39,64,771

Date: The 15th July, 2024
Place: Silchar



Annual Accounts 2023-24



NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2024
SCHEDULE : 2A : DESIGNATED / EARMARKED / ENDOWMENT FUNDS

Sl. No.	Name of the Endowment	Opening Balance		Addition during the year			Total		Expenditure / Adjustment (if any) on the object during the year	Closing Balance		Total (10+11)
		Endowment	Accumulated Interest	Endowment	Interest		Endowment (3+5)	Accumulated Interest (4+6)		Endowment	Accumulated Interest	
1	2	3	4	5	6		7	8	9	10	11	12
1	Depreciation Fund	12,67,81,160	9,51,59,877	36,33,482	2,05,97,347		13,04,14,642	11,57,57,224	-	13,04,14,642	11,57,57,224	24,61,71,866
2	Maintenance Fund	11,56,60,204	9,62,13,344	12,45,542	1,53,25,967		12,09,05,746	11,15,39,312	-	12,09,05,746	11,15,39,312	23,24,45,058
3	Staff Dev. Fund	1,65,68,915	1,02,71,334	15,57,579	16,44,173		1,81,26,494	1,19,15,507	-	1,81,26,494	1,19,15,507	3,00,42,001
4	Student Welfare Fund	14,93,813	-	-	-		14,93,813	-	-	14,93,813	-	14,93,813
5	Instt. Dev. Fund	61,69,342	-	-	-		61,69,342	-	-	61,69,342	-	61,69,342
6	Employees Welfare Fund	11,77,053		62,042	-		12,39,095	-	-	12,39,095	-	12,39,095
7	Deptt. Promotion Fund	61,69,342	-	-	-		61,69,342	-	-	61,69,342	-	61,69,342
8	Virtual Class Room	1,91,656	-	-	-		1,91,656	-	-	1,91,656	-	1,91,656
9	NMIEICT Fund	1,42,420	-	-	-		1,42,420	-	-	1,42,420	-	1,42,420
10	Pension Fund	-	-	64,74,372	-		64,74,372	-	64,74,372	-	-	-
11	Student Aid Fund	1,10,86,272	-	12,32,700	-		1,23,18,972	-	-	1,23,18,972	-	1,23,18,972
12	Corpus Fund	64,57,40,166	18,71,39,872	34,27,194	8,64,11,547		64,91,67,360	27,55,51,420	-	64,91,67,360	27,55,51,420	92,47,18,780
	TOTAL	93,51,80,343	38,87,84,428	1,76,32,911	12,59,79,034		95,28,13,254	51,47,63,462	64,74,372	94,63,38,882	51,47,63,462	1,46,11,02,344

Date: The 15th July, 2024
Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2024

SCHEDULE : 3 : CURRENT LIABILITIES AND PROVISIONS

PARTICULARS	Amount in Rupees	
	CURRENT YEAR	PREVIOUS YEAR
A. CURRENT LIABILITIES		
Deposits from staff	65,13,039	69,02,577
Deposits from Students	5,45,25,610	4,58,54,210
For Goods & Services	1,32,34,049	71,03,621
Others		
Deposits - Others (including EMD, Security Deposit & Project)	1,89,05,184	1,00,02,595
Statutory Liabilities (GSLI, P Tax, EPF, CPF)	1,25,14,375	1,08,82,394
Other Current Liabilities:		
Sponsored Project Liability (Including P Tax and others)	10,91,954	15,57,208
Receipts against sponsored projects	7,03,22,715	7,81,20,960
Receipts against sponsored fellowships & Scholarship	85,59,151	73,09,496
Unutilized /Deficit Grants :-		
Under Non Recurring Grants (OH-35)	-	-4,44,32,216
Under Recurring Grants (OH-31)	-	-21,02,72,207
Under Recurring Grants (OH-36)	-	-7,65,73,181
TEQIP PHASE-I	10,31,65,960	10,31,65,960
TEQIP PHASE-II	9,60,64,457	9,60,64,457
Other funds including Sponsored Projects (Previous)	5,91,25,285	5,94,73,199
Other liabilities	28,99,04,611	15,86,92,581
Total (A)	73,39,26,390	25,38,51,654
B. PROVISIONS		
For Taxation	-	-
Gratuity	-	-
Superannuation Pension	-	-
Others if any	-	-
Total (B)	-	-
TOTAL (A+B)	73,39,26,390	25,38,51,654

Date: The 15th July, 2024
Place: Silchar



Annual Accounts 2023-24



NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2024

SCHEDULE : 3A : SPONSORED PROJECTS FUND

Sl. No.	Name of the Project	Opening Balance		Receipts during the year		Total	Expenditure during the year	Refund to Ministry/ Loan refund to Institute	Closing Balance	
		Credit	Debit	Grants	Interest/ Other Receipts				Credit	Debit
						3	4	5		
1	2									
A	MCIT, Gol	6,51,849	-	-	14,547	6,66,396	-	-	6,66,396	-
B	DST, Gol	3,95,45,146	-	3,53,94,475	4,02,464	7,53,42,085	1,35,56,293	5,34,51,782	83,34,010	-
C	MINRE, Gol	-	-	-	-	-	-	-	-	-
D	MoESc., Gol	31,449	-	5,53,000	1,050	5,85,499	1,51,327	4,01,673	32,499	-
E	ICSSR	1,29,543	-	17,86,500	19,561	19,35,604	3,05,672	-	16,29,933	-
F	SERB, Gol	2,22,75,723	-	4,47,87,057	7,93,343	6,78,56,123	1,84,77,949	25,90,833	4,67,87,341	-
G	IBM	10,87,622	-	-	24,271	11,11,893	-	-	11,11,893	-
H	AICTE -RPS	1,82,442	-	-	4,071	1,86,513	-	-	1,86,513	-
I	AICTE -MODROBS	18,24,611	-	-	49,871	18,74,482	-	-	18,74,482	-
J	BRNS	2,98,727	-	-	6,666	3,05,393	-	-	3,05,393	-
K	KVIC	3,91,289	-	-	8,659	3,99,948	38,976	-	3,60,972	-
L	MEITY	-	-	1,07,21,056	-	1,07,21,056	35,48,633	71,72,423	-	-
M	SPARC	-	-	1,51,57,405	-	1,51,57,405	23,85,044	1,27,72,361	-	-
N	ASTEC	4,18,298	-	-	7,779	4,26,077	4,00,000	-	26,077	-
O	NMHS	12,95,511	-	-	20,746	13,16,257	2,25,765	7,08,214	3,82,278	-
P	MSME	4,35,154	-	-	1,324	4,36,478	-	4,35,154	1,324	-
Q	CSIR	2,75,846	-	9,33,860	9,841	12,19,547	3,53,471	2,40,521	6,25,555	-
R	ARDB	46,51,266	-	-	1,17,633	47,68,899	39,98,442	1,11,266	6,59,191	-
S	APIN	30,93,161	-	-	67,196	31,60,357	3,44,444	-	28,15,913	-
T	ITGTIDF	10,73,175	-	31,60,000	50,241	42,83,416	5,90,172	-	36,93,244	-
U	Other Agency	4,60,148	-	9,75,000	7,450	14,42,598	2,52,896	-	11,89,702	-
TOTAL		2,81,20,960	-	11,34,68,353	16,06,713	19,31,96,025	4,46,29,083	7,78,84,227	7,06,82,715	-

Date: The 15th July, 2024

Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2024

SCHEDULE - 3 (I): SPONSORED PROJECTS FUNDS

Particulars	Fund wise Breakup											Amount in Rupees	
	MOT, Govt	DST	M O E S	ICSSR	M N R E	MEITY	KVIC	NMHS	BRNS	MSME	ITFOTIF	Current Year	Previous Year
(I): A.													
a) Opening Balance	6,51,849	3,95,45,146	31,449	1,29,543	-	-	3,91,289	12,95,511	2,98,727	4,35,154	10,73,175	4,38,51,843	4,09,29,586
b) Additions during the year	-	3,53,94,475	5,53,000	17,86,500	-	1,07,21,056	-	-	-	-	31,60,000	5,16,15,031	2,02,28,357
c) Interest on Savings Bank a/c.	14,547	4,02,464	1,050	19,561	-	-	8,659	20,746	6,666	1,324	50,241	5,35,258	13,22,947
d) Other additions	-	-	-	-	-	-	-	-	-	-	-	-	-
e) Loan from Institute	-	-	-	-	-	-	-	-	-	-	-	-	-
Total (A)	6,66,396	7,53,42,085	5,85,499	19,35,604	-	1,07,21,056	3,99,948	13,16,257	3,05,393	4,36,478	42,83,416	9,59,92,132	6,24,80,890
(B): Utilisation /Expenditure towards objective of funds.													
(i) Capital Expenditure													
Equipment	-	80,59,288	-	-	-	-	-	-	-	-	2,09,380	82,68,668	48,30,672
Computer	-	-	-	-	-	-	-	-	-	-	-	-	-
Software	-	-	-	-	-	-	-	-	-	-	-	-	-
Furniture	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Cost/ Assets	-	7,02,485	-	-	-	-	-	-	-	-	-	7,02,485	2,23,799
(ii) Revenue Expenditure													
(iii) Refunded to Sanctioning Authority	-	47,94,520	1,51,327	3,05,672	-	35,48,633	38,976	2,25,765	-	-	3,80,792	94,45,685	70,10,822
(iv) Refund of Loan to Institute	-	5,34,51,782	4,01,673	-	-	71,72,423	-	7,08,214	-	4,35,154	-	6,21,69,246	65,63,755
Total (B)	-	6,70,08,075	5,53,000	3,05,672	-	1,07,21,056	38,976	9,33,979	-	4,35,154	5,90,172	8,05,86,083	1,86,29,047
Closing balance at the year end (1) (A-B)	6,66,396	83,34,010	32,499	16,29,933	-	-	3,60,972	3,82,278	3,05,393	1,324	36,93,244	1,54,06,049	4,38,51,843



Annual Accounts 2023-24



SCHEDULE - 3 (1): SPONSORED PROJECTS FUNDS

Particulars	Fund wise Breakup										Amount in Rupees	
	AICTE - BPS	AICTE - MODROB	I B M	S E R B	A S T E C	S P A R C	A P W	C S I R	A R D S	OTHER AGENCY	Current Year	Previous Year
(2) : A.												
a) Opening Balance	1,82,442	18,24,611	10,87,622	2,22,75,723	4,18,208	-	30,93,161	2,75,846	46,51,266	4,60,148	3,42,69,117	3,31,92,035
b) Additions during the year	-	-	-	4,47,87,067	-	1,51,57,405	-	9,33,860	-	9,75,000	6,18,53,322	2,77,74,216
c) Interest on Savings Bank a/c.	4,071	49,671	34,271	7,93,343	7,779	-	67,196	9,841	1,17,633	7,450	10,81,455	9,84,395
d) Other additions (specify nature)	-	-	-	-	-	-	-	-	-	-	-	-
Total (A)	1,86,513	18,74,482	11,11,893	6,78,56,123	4,26,077	1,51,57,405	31,60,357	12,19,547	47,68,899	14,42,598	9,72,03,894	6,19,50,646
B.1. Utilization / Expenditure towards objective of funds												
(i) Capital Expenditure												
Equipment	-	-	-	56,86,567	4,00,000	-	1,33,326	-	35,48,913	-	97,68,806	55,95,936
Computer	-	-	-	-	-	-	-	-	-	-	-	24,800
Software	-	-	-	-	-	-	-	-	-	-	-	-
Furniture	-	-	-	-	-	-	-	-	-	-	-	-
Books	-	-	-	-	-	-	-	-	-	-	-	-
(ii) Revenue Expenditure												
Refunded to Sanctioning authority	-	-	-	25,90,833	-	1,27,72,361	-	2,40,521	1,11,266	-	1,57,14,381	91,76,682
Total (B)	-	-	-	2,10,68,782	4,00,000	1,51,57,405	3,44,444	5,93,992	41,09,708	2,52,896	4,19,27,227	2,76,81,529
Closing balance at the year end (2): (A-B)	1,86,513	18,74,482	11,11,893	4,67,87,341	26,077	-	28,15,913	6,25,555	6,59,191	11,89,702	5,52,76,667	3,42,69,117
Closing balance at the year end (1+2)	8,52,909	1,02,08,492	11,44,392	4,84,17,273	26,077	-	31,76,885	10,07,833	9,64,584	11,91,026	7,06,82,715	7,81,20,960

Date: The 15th July, 2024

Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2024

SCHEDULE : 3B : SPONSORED FELLOWSHIPS AND SCHOLARSHIPS

Sl. No.	Name of the Sponsors	Opening Balance		Transaction during the year		Closing Balance as on 31.03.2024	
		Credit	Debit	Credit	Debit	Credit	Debit
1	2	3	4	5	6	7	8
1	Various Agencies	73,09,496	-	30,96,561	18,46,906	85,59,151	-
Total		73,09,496	-	30,96,561	18,46,906	85,59,151	-

Date: The 15th July, 2024
Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2024

SCHEDULE 4 - FIXED ASSETS

Sl. No	Assets Heads		Gross Block			Depreciation for the Year 2023-24			Net Block	
	TANGIBLE ASSETS	Opening Balance as on 01.04.2023	Additions	Deduction	Cl. Balance	Dep. Opening Balance	Depreciation for the Year	Deductions/Adjustment	Total Depreciations	
1	Land	8,66,458	-	-	8,66,458	-	-	-	-	8,66,458
2	Site & Campus Development	9,03,75,296	5,81,848	-	9,09,57,144	3,11,07,548	-	-	3,11,07,548	5,98,49,596
3	Buildings	5,30,25,58,725	1,47,09,920	-	5,31,72,68,645	1,66,06,78,227	5,38,10,859	-	1,71,44,89,086	3,60,27,79,559
4	Roads & Bridges	12,92,35,288	39,87,756	-	13,32,23,044	3,87,38,299	18,75,210	-	4,06,13,509	9,26,09,535
5	Tubewells & Water Supply	18,66,69,332	-	-	18,66,69,332	7,25,17,360	22,89,294	-	7,48,06,654	11,18,62,678
6	Sewerage & Drainage	5,95,92,554	34,23,064	-	6,30,15,618	1,34,40,080	9,30,268	-	1,43,70,348	4,86,45,270
7	Electrical Installation & Equipment	10,83,91,552	1,30,24,452	-	12,14,16,004	5,41,77,580	29,79,026	-	5,71,56,606	6,42,61,398
8	Plant & Machinery	13,15,17,942	32,61,027	-	13,47,78,969	9,15,96,879	20,43,995	-	9,36,40,874	4,11,38,095
9	Scientific & Laboratory Equipment	48,46,55,369	2,08,77,852	-	50,55,33,221	30,20,41,901	1,55,88,678	-	31,76,30,579	18,79,02,643
10	Office Equipment	2,10,75,144	4,79,906	-	2,15,55,050	1,69,55,379	3,45,822	-	1,73,01,201	42,53,849
11	Audio Visual Equipment	1,93,44,663	23,45,129	-	2,16,89,792	98,17,791	7,53,946	-	1,05,71,737	1,11,18,055
12	Computers & Peripherals	24,21,82,203	2,04,45,412	4,79,906	26,21,47,709	21,17,09,686	81,64,488	-	21,98,74,174	4,22,73,535
13	Furniture, Fixtures & Fittings	20,24,28,315	1,74,73,549	-	21,99,01,864	11,06,50,277	74,16,670	-	11,80,66,947	10,18,34,917
14	Vehicles	70,13,115	-	-	70,13,115	59,57,440	1,05,856	-	60,63,296	9,49,819
15	Lib. Books & Scientific Journals	7,55,50,255	32,76,303	-	7,88,26,558	6,72,94,634	8,19,858	-	6,81,14,482	1,07,12,076
16	Other Assets	12,91,11,417	3,29,07,325	-	16,20,18,742	10,51,91,744	14,22,632	-	10,66,18,376	5,54,02,366
	Total (A)	7,19,05,69,628	13,67,93,543	4,79,906	7,32,68,83,265	2,79,18,76,815	9,85,46,602	-	2,89,04,23,416	4,43,64,59,849
17	Capital Works in Progress (B)	60,29,191	5,13,02,202	-	5,73,31,393	-	-	-	-	5,73,31,393
	INTANGIBLE ASSETS:									
18	Computer Software	12,83,75,544	34,83,170	-	13,18,62,714	6,33,37,927	2,62,15,628	-	8,95,53,555	4,23,09,159
19	E-Books (Perpetual Assets)	2,81,99,920	58,93,923	-	3,40,93,843	-	-	-	-	3,40,93,843
20	E-Journals	27,81,39,863	4,67,42,275	-	32,48,82,138	27,81,39,863	1,30,50,114	-	29,11,89,977	3,36,92,161
21	E-Books	90,35,568	22,75,680	-	1,13,11,248	61,66,487	2,86,819	-	64,53,306	19,88,861
22	Patents	3,64,251	-	-	3,64,251	-	-	-	-	3,64,251
	Total (C)	44,41,19,146	5,83,95,048	-	50,25,14,194	34,76,44,277	3,95,52,561	-	38,71,96,838	11,24,48,275
23	TEQIP I Assets (D)	10,31,65,960	-	-	10,31,65,960	-	-	-	-	10,31,65,960
24	TEQIP II Assets (E)	9,40,64,457	-	-	9,40,64,457	-	-	-	-	9,40,64,457
	Grand Total (A+B+C+D+E)	7,83,99,48,383	24,60,90,793	4,79,906	8,08,59,59,270	3,13,95,21,092	13,80,99,162	-	3,27,76,20,254	4,80,54,69,934

Date: The 15th July, 2024

Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2024
SCHEDULE 4(C)(I) - PATENTS AND COPYRIGHTS

Particulars	Op Balance 01.04.2023	Additions	Gross	Amortization	Amount in Rupees	
					Net Block 2023-24	Net Block 2022-23
A. Patents Granted						
1. Balance as on 31.03.2016 of Patents obtained in 2008-09 (Original Value - Rs.)	-	-	-	-	-	-
2. Balance as on 31.03.2016 of Patents obtained in 2010-11 (Original Value - Rs.)	-	-	-	-	-	-
3. Balance as on 31.03.2016 of Patents obtained in 2012-13 (Original Value - Rs.)	-	-	-	-	-	-
4. Patents granted during the Current Year	-	-	-	-	-	-
Total	-	-	-	-	-	-
B. Patents Pending in respect of Patents applied for:						
1. Expenditure incurred during 2013-14	-	-	-	-	-	-
2. Expenditure incurred during 2014-15	-	-	-	-	-	-
3. Expenditure incurred during 2015-16	42,180	-	42,180	-	42,180	42,180
4. Expenditure incurred during 2016-17	83,551	-	83,551	-	83,551	83,551
5. Expenditure incurred during 2017-18	1,25,790	-	1,25,790	-	1,25,790	1,25,790
6. Expenditure incurred during 2018-19	47,730	-	47,730	-	47,730	47,730
7. Expenditure incurred during 2019-20	-	-	-	-	-	-
8. Expenditure incurred during 2020-21	-	-	-	-	-	-
9. Expenditure incurred during 2021-22	-	-	-	-	-	-
10. Expenditure incurred during 2022-23	65,000.0	-	65,000	-	65,000.0	65,000.0
11. Expenditure incurred during 2023-24	65,000	-	65,000	-	65,000	-
Total	4,29,251	-	4,29,251	-	4,29,251	3,64,251
Grand Total (A+B)	4,29,251	-	4,29,251	-	4,29,251	3,64,251

Date: The 15th July, 2024

Place: Silchar



Annual Accounts 2023-24



NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2024

SCHEDULE : 5 : INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS

PARTICULARS	Amount in Rupees	
	CURRENT YEAR	PREVIOUS YEAR
1. In Central Government Securities	-	-
2. In State Government Securities	-	-
3. Other approved Securities	-	-
4. Shares	-	-
5. SBI Mutual Fund : Saving Fund	40,65,00,000	43,26,05,917
6. Term Deposits with Banks		
Investment of Corpus Fund	44,83,19,868	43,52,18,451
Investment of Corpus Fund / Capital Fund	-	87,01,973
Investment of Depreciation Fund	16,97,33,248	16,78,81,633
Investment of Maintenance Fund	16,81,69,399	16,65,88,717
Investment of Staff Development Fund	1,90,57,487	1,89,84,533
7. Others	-	-
Total	1,21,17,80,002	1,22,99,81,224

SCHEDULE : 6 : INVESTMENTS - OTHERS

PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
1. In Central Government Securities	-	-
2. In State Government Securities	-	-
3. Other approved Securities	-	-
4. Shares	-	-
5. Debentures and Bonds	-	-
6. Term Deposits with Banks: Short Term Deposit Receipt Investment of Corpus Fund / Capital Fund from Non-Plan (general)	67,76,84,742	65,64,80,053
7. Others : Margin Money Account (L.C.) / Mutual Fund	24,02,67,377	21,41,61,460
Total	91,79,52,119	87,06,41,513

Date: The 15th July, 2024
Place: Silchar



Annual Accounts 2023-24



NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR												
SCHEDULE SHOWING INVESTMENTS OF EARMARKED AND OTHER FUNDS AS ON 31.03.2024 [Corresponding to Schedule - 5 & 6]												
Sl	Bank	F.D No	Date	Face Value as on 31.03.2023	Addition during 2023-24	Matured / encashed during 2023-24	Face Value as on 31.03.2024	Accrued Interests Upto 31.03.2023	Accrued Interest earned during 2023-24	Accrued Intt. Recd. during 2023-24	Interest Recd during 2023-24	Accrued Interests Upto 31.03.2024
A												
Corpus Fund												
1	SBI NIT Sil	39238647608	27.03.2020	89,94,199	99,66,926	89,94,199	99,66,926	4,77,235	9,486	4,77,235	4,95,492	9,486
2	- do -	39238648931	27.03.2020	89,94,199	99,66,926	89,94,199	99,66,926	4,77,235	9,486	4,77,235	4,95,492	9,486
3	- do -	39238649059	27.03.2020	89,94,199	99,66,926	89,94,199	99,66,926	4,77,235	9,486	4,77,235	4,95,492	9,486
4	- do -	39238649082	27.03.2020	89,94,199	99,66,926	89,94,199	99,66,926	4,77,235	9,486	4,77,235	4,95,492	9,486
5	- do -	39238649117	27.03.2020	89,94,199	99,66,926	89,94,199	99,66,926	4,77,235	9,486	4,77,235	4,95,492	9,486
6	- do -	39238649151	27.03.2020	89,94,199	99,66,926	89,94,199	99,66,926	4,77,235	9,486	4,77,235	4,95,492	9,486
7	- do -	39238649195	27.03.2020	89,94,199	99,66,926	89,94,199	99,66,926	4,77,235	9,486	4,77,235	4,95,492	9,486
8	- do -	39238649220	27.03.2020	89,94,199	99,66,926	89,94,199	99,66,926	4,77,235	9,486	4,77,235	4,95,492	9,486
9	- do -	39238649253	27.03.2020	89,94,199	99,66,926	89,94,199	99,66,926	4,77,235	9,486	4,77,235	4,95,492	9,486
10	- do -	39238649311	27.03.2020	89,94,199	99,66,926	89,94,199	99,66,926	4,77,235	9,486	4,77,235	4,95,492	9,486
11	- do -	39238649297	27.03.2020	89,94,199	99,66,926	89,94,199	99,66,926	4,77,235	9,486	4,77,235	4,95,492	9,486
12	- do -	39238649355	27.03.2020	89,94,199	99,66,926	89,94,199	99,66,926	4,77,235	9,486	4,77,235	4,95,492	9,486
13	- do -	39238649466	27.03.2020	89,94,199	99,66,926	89,94,199	99,66,926	4,77,235	9,486	4,77,235	4,95,492	9,486
14	- do -	39238649661	27.03.2020	42,16,031	46,71,997	42,16,031	46,71,997	2,23,704	4,447	2,23,704	2,32,262	4,447
15	- do -	41799571729	31.03.2023	31,40,77,833	-	-	31,40,77,833	-	2,54,57,029	-	-	2,54,57,029
16	- do -	SBI Saving Fund	31.03.2020	32,32,50,000	-	-	32,32,50,000	4,41,61,165	5,60,61,972	-	-	10,02,23,137
TOTAL (A)				75,84,58,451	11,42,42,035	12,11,40,618	77,15,69,868	5,05,88,924	8,16,46,766	64,27,759	66,73,658	12,58,07,931
B												
Depreciation Fund												
1	SBI NIT Sil	38362321545	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
2	- do -	38362340422	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
3	- do -	38362341299	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
4	- do -	38362345227	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
5	- do -	38362345884	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
6	- do -	38362346468	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
7	- do -	38362347075	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
8	- do -	38362347532	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
9	- do -	38362348308	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
10	- do -	38362348807	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
11	- do -	38362349469	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
12	- do -	38362350779	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
13	- do -	38362351503	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
14	- do -	38362353747	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
15	- do -	38362341903	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320



Accounts 2023-24



Sl	Bank	F.D No	Date	Face Value as on 31.03.2023	Addition during 2023-24	Matured / encashed during 2023-24	Face Value as on 31.03.2024	Accrued Interests Upto 31.03.2023	Accrued Interest earned during 2023-24	Accrued Int'l. Recd. during 2023-24	Interest Recd during 2023-24	Accrued Interests Upto 31.03.2024
16	- do -	39238649923	27.03.2020	69,14,290	77,91,178	69,14,290	77,91,178	4,97,979	7,292	4,97,979	3,90,909	7,292
17	- do -	39238649876	27.03.2020	89,94,108	99,66,925	89,94,108	99,66,925	4,77,235	9,486	4,77,235	4,95,492	9,486
18	- do -	SBI Saving Fund	31.03.2020	4,24,50,000	-	-	4,24,50,000	57,99,155	87,62,587	-	-	1,45,61,942
TOTAL (B)				21,03,31,633	1,77,60,103	1,59,08,488	21,21,83,248	67,74,569	1,97,04,165	9,75,214	8,76,401	2,55,03,520
C												
Maintenance Fund												
1	SBI NIT Sil	38362366451	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
2	- do -	38362367159	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
3	- do -	38362367692	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
4	- do -	38362368244	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
5	- do -	38362368890	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
6	- do -	38362369758	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
7	- do -	38362361588	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
8	- do -	38362362344	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
9	- do -	38362362821	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
10	- do -	38362363201	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
11	- do -	38362363788	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
12	- do -	38362364238	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
13	- do -	38362364737	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
14	- do -	38362365209	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
15	- do -	38362365804	30.03.2019	1,01,31,543	-	-	1,01,31,543	-	7,28,320	-	-	7,28,320
16	- do -	39238649990	27.03.2020	73,67,786	80,98,127	73,67,786	80,98,127	3,87,754	7,797	3,87,754	4,02,587	7,797
17	- do -	39238649956	27.03.2020	73,67,786	80,98,127	73,67,786	80,98,127	3,87,754	7,797	3,87,754	4,02,587	7,797
18	- do -	SBI MMD Fund	31.03.2020	3,90,00,000	-	-	3,90,00,000	75,65,021	35,56,733	-	-	1,11,21,774
TOTAL (C)				20,55,88,717	1,61,96,254	1,46,15,572	20,71,69,399	83,40,529	1,44,96,967	7,75,508	8,05,174	2,20,61,988
D												
Staff Development Fund												
1	SBI NIT Sil	38362419100	30.03.2019	91,54,984	-	-	91,54,984	31,03,441	7,28,320	-	-	18,31,761
2	- do -	38362419564	30.03.2019	91,54,984	-	-	91,54,984	31,03,441	7,28,320	-	-	18,31,761
3	- do -	39238648454	27.03.2020	6,34,565	7,47,519	6,34,565	7,47,519	35,793	712	35,793	37,161	712
4	- do -	SBI Saving Fund	31.03.2020	18,00,000	-	-	18,00,000	2,54,609	1,45,495	-	-	4,00,104
TOTAL (D)				2,07,84,533	7,47,519	6,34,565	2,08,57,487	24,97,284	16,02,847	35,793	37,161	40,64,338
Total Earmarked Fund E = [A+B+C+D]				1,19,51,73,334	16,89,45,511	15,23,39,243	1,21,17,80,002	6,82,01,306	11,74,50,745	82,14,274	83,93,394	17,74,37,778
F												
RECURRING/NONRECURRING												
1	SBI NIT Sil	40888185606:Fee A/c	31.03.2022	37,50,000	43,57,078	37,50,000	43,57,078	1,98,864	800	1,98,864	4,08,214	800
- do -	40888185414		31.03.2022	1,90,00,000	2,20,75,862	1,90,00,000	2,20,75,862	30,07,378	1,583	30,07,378	20,48,184	1,583
- do -	40888185561		31.03.2022	76,37,153	88,73,513	76,37,153	88,73,513	4,05,002	1,629	4,05,002	8,31,358	1,629
- do -	40888185516		31.03.2022	1,90,00,000	2,20,75,862	1,90,00,000	2,20,75,862	30,07,378	1,543	30,07,378	20,48,184	1,543

Annual Accounts 2023-24





Sl	Bank	F.D No	Date	Face Value as on 31.03.2023	Addition during 2023-24	Matured / encashed during 2023-24	Face Value as on 31.03.2024	Accrued Interests Upto 31.03.2023	Accrued Interest earned during 2023-24	Accrued Int. Recd. during 2023-24	Interest Recd during 2023-24	Accrued Interests Upto 31.03.2024
5	- do -	40888188244	31.03.2022	1,90,00,000	2,20,75,862	1,90,00,000	2,20,75,862	10,07,578	1,543	10,07,578	20,68,284	1,563
6	- do -	40888185276	31.03.2022	10,00,000	11,61,888	10,00,000	11,61,888	53,031	214	53,031	1,08,857	214
7	- do -	40888185232	31.03.2022	10,00,000	11,61,888	10,00,000	11,61,888	53,031	214	53,031	1,08,857	214
8	- do -	40888183165	31.03.2022	10,00,000	11,61,888	10,00,000	11,61,888	53,031	214	53,031	1,08,857	214
9	- do -	41795573330	31.03.2023	58,50,92,900	-	-	58,50,92,900	-	4,74,23,680	-	-	4,74,23,680
10	- do -	SBI Saving Fund_Earmarked	31.03.2022	20,29,11,460	-	-	20,29,11,460	91,81,410	1,53,59,021	-	-	2,45,40,431
11	- do -	SBI Saving Fund_Fee A/c	31.03.2022	1,12,50,000	-	-	1,12,50,000	5,09,044	8,38,747	-	-	13,47,791
TOTAL (F)				87,06,41,513	8,29,43,841	7,13,87,153	88,21,98,201	1,34,76,147	6,36,29,208	37,85,693	77,70,995	7,33,19,662
G	Corpus / Capital Fund											
1	SBI NIT Sil	40888185072	31.03.2022	50,00,000	55,43,570	50,00,000	55,43,570	2,65,152	1,067	2,65,152	2,78,418	1,067
2	- do -	40888185775	31.03.2022	37,61,973	41,04,431	37,01,973	41,04,431	1,96,318	790	1,96,318	2,06,140	790
3	- do -	SBI Saving Fund	31.3.2022	2,61,65,917	-	-	2,61,65,917	11,81,349	19,46,355	-	-	31,27,604
TOTAL (G)				3,48,67,890	96,48,001	87,01,973	3,57,53,918	36,42,719	19,48,212	4,61,470	4,84,558	31,29,461
TOTAL H= (F+G)				90,54,49,403	9,25,91,842	8,00,89,126	91,79,52,119	1,51,18,866	6,55,77,420	42,47,163	82,55,553	7,64,49,123
Grand Total I= (E+I)				2,10,06,22,737	26,15,37,753	23,24,28,369	2,12,97,32,121	8,33,20,172	18,30,28,165	1,24,61,437	1,66,47,947	25,38,86,900
Note:												
1. Consolidated STDR valuation as on 31/03/2024				1,45,38,55,360	20,15,37,753	23,24,28,369	1,48,29,64,744	1,46,68,319	9,61,37,235	1,34,61,437	1,66,47,947	9,85,64,117
2. Consolidated MF valuation as on 31/03/2024				64,67,67,377	-	-	64,67,67,377	6,86,51,853	8,66,20,030	-	-	15,53,22,783
Total				2,10,06,22,737	26,15,37,753	23,24,28,369	2,12,97,32,121	8,33,20,172	18,30,28,165	1,24,61,437	1,66,47,947	25,38,86,900

Date: The 15th July, 2024

Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2024

SCHEDULE : 7 : CURRENT ASSETS

		Amount in Rupees	
PARTICULARS	CURRENT YEAR	PREVIOUS YEAR	
1. STOCKS:			
a) Storers and spares	-	-	-
b) Loose Tools	-	-	-
c) Publications	-	-	-
d) Laboratory Chemicals	-	-	-
e) Building materials	-	-	-
f) Electrical Materials	-	-	-
g) Stationery	-	-	-
h) Water supply materials	-	-	-
2. SUNDRY DEBTORS			
a) Debts outstanding for a period exceeding six months	68,672	68,672	68,672
b) Others	-	-	-
3. CASH AND BANK BALANCES			
Cash in hand	1,576		10,175
Cash at Bank:			
A) With Scheduled Banks:			
In Current Accounts	28,00,41,676		9,81,13,230
In Savings Accounts	27,36,27,627		12,75,89,639
Total	55,37,39,552		22,57,81,717





SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2024

SCHEDULE : 7 (A) ANNEXURE - CURRENT ASSETS

PARTICULARS	Amount in Rupees	
	CURRENT YEAR	PREVIOUS YEAR
With Scheduled Banks:		
In Current Accounts		
SBI-10521277057 (NON PLAN)	7,73,62,902	7,41,32,366
SBI-10521277068 (PLAN GRANT)	5,86,93,393	1,58,05,282
SBI-34999649864 ONLINE FEE A/C	12,81,07,125	99,587
HDFC A/C No.-50200039712972 (Plan)	1,58,78,256	80,75,994
Total	28,00,41,676	9,81,13,230
In Savings Accounts		
SBI-10521277818 (CORPUS FUND)	27,49,384	26,76,236
SBI-30052416379 (STAFF DEV FUND)	1,56,577	1,52,412
SBI-30052438520 (DEPRECIATION FUND)	6,30,750	6,13,969
SBI-30052443879 (MAINT.FUND)	8,95,500	8,71,674
AXIS-9100100459704315 (PLAN)	10,84,146	4,45,272
SBI-10521278244 (SCHOLARSHIP)	1,00,97,301	86,32,936
SBI-30763009570 (NONPLAN FEE)	17,37,85,843	3,25,95,403
SBI-38478949539 (E-Tendering A/c)	1,09,87,605	26,69,707
SBI-36535392913 (AWARD FUND)	5,24,455	5,10,502
SBI-36017852338 (START UP INDIA FUND)	1,035	1,007
SBI-39745824808 (QIP A/C)	23,833	23,199
SBI-40593349332 (Conference A/C)	38,20,182	17,14,407
SBI-30293190682 (TUC)	8,404	8,180
SBI-35538434664 (IEDC / DST)	87,23,988	3,79,46,634
SBI-30033506221 (SMDP)	1	-
SBI-34671803739 (AM&MT/FIST)	3,42,567	3,32,883
SBI-30780415571 (RPS SCHEME)	86,77,146	77,85,513
SBI-30780416041 (MODROBS)	18,74,482	18,24,611
SBI-31306562769 (BEHAVIOUR OF CLAY/MoESc)	9,602	9,346
SBI-37093726031 (NHMS)	33,062	11,46,277
SBI-31306566082 (REG EXTREME RAINFALL)	29,815	29,021
SBI-37808839310 (ARDB)	6,58,425	46,50,500
SBI-38599144369 (SERB)	4,67,77,638	2,24,16,374
SBI-38692109587 (SPARC)	1	-
SBI-39925901632 (MEITY)	1	-
SBI-39948676664 (ICSSR)	5,695	98,422
SBI-40466162099 (MSME)	1,324	4,35,154
SBI-42255335911 (ICSR)	1,39,500	-
SBI-40587689627 (ICSR 1)	15,89,366	-
Total	27,36,27,627	12,75,89,639

Date: The 15th July, 2024

Place: Silchar



Annual Accounts 2023-24



NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2024
SCHEDULE : 8 : LOANS, ADVANCE AND DEPOSITS

PARTICULARS	Amount in Rupees	
	CURRENT YEAR	PREVIOUS YEAR
1. Advances to employees (Non-interest bearing) :		
Loan to Staff	36,789	47,189
HTC Advance	22,000	22,000
LTC Advance	9,03,560	9,14,105
Other Advance To Employees (for Medical treatment)	-	-
Recoverable Advance	3,76,55,802	2,16,41,124
TA Advance	20,66,854	10,01,412
2. Long Term Advances to employees: (Interest bearing) :		
Vehicle Loan	-	-
Home Loan	-	-
Soft Loan	2,59,603	2,60,705
3. Advances & other amt recoverable in cash or in kind or for value to be received :		
On Capital Account:		
Deposit Work	-	-
Secured Advance	28,28,318	2,87,93,239
Advance - PHE Water Supply	-	-
Margin Money for LC	124	124
Suppliers/Firm	-	-
Electricity Consumption Receivable	-	-
Receivable from Project overhead (Project overhead)	3,29,057	2,74,409
House Rent / Licence Fee receivable	48,400	-
Shop & Canteen Rent receivable	37,140	2,68,073
Receivable from Mtech 1st Sem 2020 Betch	1,38,988	1,88,699
Receivable against Start Up India (Project)	3,600	3,600
Receivable from NE Books	15,61,301	15,61,301
DST Receivable	-	-
Receivable from Ashim Kumar Das (I Tax)	8,040	8,040
Receivable from Consultancy	-	-
Receivable from Scholarship Fund	12,82,766	12,82,766
SMDP Project Receivable	-	-
RPS Project Receivable	-	-
Income Tax Salary receivable	4,16,990	-





PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
Receivable from DK Baidya	13,467	-
Receivable from CP Fund Account	1,70,000	-
4. Prepaid Expenses :		
Insurance	20,73,402	82,372
Against E Journal	3,28,68,360	1,37,79,882
E Books	13,93,855	-
5. Deposits :		
APDCL (Electricity)	54,49,323	54,49,323
AICTE	-	-
SBI ATM (TDR)	10,000	10,000
Security for POL	-	1,62,084
Security against LPG	46,200	46,200
6. Income Accrued :		
On Investments from Earmarked / Endowment Fund	17,74,37,778	6,98,44,025
On Investment - Others	7,64,49,123	1,34,76,147
On Loans and Advances	-	-
Others (including income due unrealized)	-	-
7. Other - Current assets receivable from UGC / Sponsored projects :		
Debit balances in Sponsored Projects	-	-
Debit balances in sponsored Fellowship & Scholarships	-	-
Grants receivable	-	-
Grants receivable from UGC	-	-
Recoverable from MR Staff (EPF Subscription)	27,08,310	27,08,310
TDS Receivable	-	-
TDS Receivable- Sponsored Project	-	-
TDS Receivable- Others (Non Plan)	10,02,265	5,86,616
Adv to Firm- Balmer lawrie	51,91,430	51,91,430
8. Claims receivable :		
Institute Fund	31,30,646	2,00,29,497
Project Account	24,94,498	29,94,498
Total	35,80,37,989	19,06,27,170

Date: The 15th July, 2024
Place: Silchar



Annual Accounts 2023-24



NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31ST MARCH 2024

SCHEDULE 9- ACADEMIC RECEIPTS

FEES FROM STUDENTS		Amount in Rupees	
		CURRENT YEAR	PREVIOUS YEAR
Academic			
1. Tuition fee		19,80,21,636	22,67,76,072
2. Admission fee		85,51,100	96,77,000
3. Enrolment fee		-	-
4. Library Admission fee		46,52,508	52,16,040
5. Laboratory fee - I T System fee		91,95,800	1,02,85,800
6. Art & Craft fee		-	-
7. Registration fee / Institutional fee		-	-
8. Syllabus fee		-	-
Total (A)		22,04,21,044	25,19,54,912
Examinations			
1. Admission test fee		-	-
2. Annual Examination fee		88,75,639	97,92,111
3. Mark sheet, certificate fee		-	-
4. Entrance fee		-	-
Total (B)		88,75,639	97,92,111
Others Fees			
1. Identity card fee		-	-
2. Fine/Miscellaneous fee		11,16,990	12,13,875
3. Medical fee		30,26,350	30,80,940
4. Transportation fee		34,84,800	30,13,300
5. Hostel fee - Light & Water charges		-	-
6. Migration fee		-	-





FEES FROM STUDENTS		CURRENT YEAR	PREVIOUS YEAR
7. Summer term course fee		-	-
8. Convocation fee		6,23,251	7,19,406
	Total (C)	82,51,391	80,27,521
Sale of Publications			
1. Sale of Admission forms		-	-
2. Sale of syllabus and question paper, etc.		-	-
3. Sale of prospectus including admission forms		-	-
	Total (D)	-	-
Other Academic Receipts			
1. Registration fee for workshops, training programmes		-	-
2. Registration fee (Academic Staff College)		-	-
3. Training & Placement		45,01,900	8,85,747
	Total (E)	45,01,900	8,85,747
Grand Total (A+B+C+D+E)		24,20,49,974	27,06,60,292

Date: The 15th July, 2024
Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31ST MARCH 2024

SCHEDULE 10- GRANTS/SUBSIDIES (IRRECOVERABLE GRANTS RECEIVED)

Amount in Ruppes

Particulars	Current Year				Previous Year			
	OH-35 (Creation of Assets)	OH-31 (Recurring General)	OH-36 (Salaries)	Current Year Total	OH-35 (Creation of Assets)	OH-31 (Recurring General)	OH-36 (Salaries)	Current Year Total
Balance B/f	-4,44,32,216	-21,02,72,207	-7,65,73,181	-33,12,77,604	-9,14,55,679	-21,02,72,207	-7,65,73,181	-37,83,01,067
Add: Adjustment of IRG from current FY 2023-24	4,44,32,216	10,00,00,000	7,65,73,181	22,10,05,397				
Add: Adjustment of capital from from prev. FY 2022-23	-	11,02,72,207	-	11,02,72,207				
Add: Receipts during the year	25,50,00,000	62,70,00,000	70,67,00,000	1,58,87,00,000	31,77,00,000	56,84,00,000	67,83,00,000	1,56,44,00,000
Add: Interest earned	-	-	-	-	-	-	-	-
Less: Adjustment / Fund Lapsed from TSA Grant at the end of the FY 2023-24.	1,82,21,112	-	-	1,82,21,112	15,77,77,542	-	12,67,17,227	28,44,94,769
Total	23,67,78,888	62,70,00,000	70,67,00,000	1,57,04,78,888	6,84,66,779	35,81,27,793	47,50,09,592	90,16,04,164
Less: Utilized for Capital expenditure (A)	23,67,78,888	-	-	23,67,78,888	11,28,98,995	-	-	11,28,98,995
Less: Utilized for deposit work and advance to agency etc.	-	-	-	-	-	-	-	-
Balance	-	62,70,00,000	70,67,00,000	1,33,37,00,000	-4,44,32,216	35,81,27,793	47,50,09,592	78,87,05,169
Less: Utilized for Revenue expenditure against GIA (B)	-	62,70,00,000	70,67,00,000	1,33,37,00,000	-	56,84,00,000	55,15,82,773	1,11,99,82,773
Balance C/f	-	-	-	-	-4,44,32,216	-21,02,72,207	-7,65,73,181	-33,12,77,604

Date: The 15th July, 2024
Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31ST MARCH 2024

Schedule 11 - INCOME FROM INVESTMENT

	Particulars	Amount in Rupees			
		Earmarked/Endowment Funds		Other Investments	
		CURRENT YEAR	PREVIOUS YEAR	CURRENT YEAR	PREVIOUS YEAR
1	Interest				
	a. On Government Securities	-	-	-	-
	b. Other Bonds/Debentures	-	-	-	-
2	Interest on Term Deposits	-	-	-	-
	Interest on Stock Term Deposits from AXIS Bank	-	-	-	-
	Interest on Stock Term Deposits from HDFC Bank	-	-	-	-
	Interest received on Term Deposits against short term deposits.	83,92,394	2,26,36,917	77,70,995	79,25,796
3	Income accrued but not due on Term Deposits	11,74,50,745	2,94,76,849	6,36,29,208	1,34,76,147
4	Interest on Savings Bank Accounts	1,35,895	1,25,835	-	-
5	Last year Interest accrued on Term Deposits accounted during the year	-	-	-	-
	Total	12,59,79,034	5,22,39,601	7,14,00,203	2,14,01,943
	Transferred to Earmarked/Endowment Funds	12,59,79,034	5,22,39,601	-	-
	Balance	-	-	7,14,00,203	2,14,01,943

Date: The 15th July, 2024

Place: Silchar



Annual Accounts 2023-24



NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31ST MARCH 2024

SCHEDULE 12: INTEREST EARNED

Amount in Rupees		
	CURRENT YEAR	PREVIOUS YEAR
1 On Savings Accounts with scheduled banks :		
Against fee account no. 30763009570	25,80,862	4,72,455
Against Scholarship account no. 10521278244	2,58,720	2,23,863
Interest on Axis Bank account no. 910010049704315	16,351	24,075
Interest on HDFC Bank A/C No.50200039712972	-	-
Interest on E-Tender Account: SBI A/C No.38478849539	2,58,756	78,519
Interest received on TDS	-	-
Against Conference Account no. 40593349332	68,300	41,648
Total (A)	31,82,989	8,40,560
2 On Loans :		
a. Employees/Staff - Interest on Soft Loan	24,242	31,039
b. Others - Against Interest recovery of LTC/HTC	-	-
Total (B)	24,242	31,039
3 On Debtors and Other Receivables		
Total (C)	-	-
Grand Total (A+B+C)	32,07,231	8,71,599

Date: The 15th July, 2024
Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31ST MARCH 2024

SCHEDULE 13- OTHER INCOME

Amount in Rupees		
Particulars	CURRENT YEAR	PREVIOUS YEAR
A. Income from Land & Buildings		
1. Hostel room Rent	1,31,21,727	99,54,638
2. License fee	41,72,142	43,89,210
3. Hire Charges of Auditorium/Play ground/Convention Centre, Shop etc.	5,26,188	8,24,382
4. Guest House Rent	24,61,254	18,84,603
5. Electricity charges recovered	90,71,933	75,78,657
6. Light & Water charges recovered	82,51,350	94,97,000
Total	3,76,04,594	3,41,28,490
B. Sale of Institute's Publications		
C. Income from holding events		
1. Gross Receipts from annual function/Sports Carnival	-	-
Less: Direct expenditure incurred on the annual function/Sports Carnival	-	-
2. Gross Receipts from fetes	-	-
Less: Direct expenditure incurred on the fetes	-	-
3. Gross Receipts for educational tours	-	-
Less: Direct expenditure incurred on the tours	-	-
4. Others (to be specified and separately disclosed)	-	-
Total	-	-



Annual Accounts 2023-24



Particulars	CURRENT YEAR	PREVIOUS YEAR
D. Others		
1. Institute Overhead (Project)	39,05,902	29,10,126
1a. Institute Overhead (Consultancy)	-	-
2. RTI Fees	190	320
3. Income from Royalty		
4. Sale of application form (Recruitment/ Academic, etc.)	71,02,328	98,431
5. Misc. Receipts (Sale of Tender Form, etc.)	58,000	36,500
6. Profit on sale/disposal of Assets	-	-
a) Owned assets	-	-
b) Assets received free of cost	-	-
7. Others (Lake)	-	-
8. Pension Fund Contribution	64,74,372	1,17,12,592
09. Capital Fund appropriation against Depreciation	13,80,99,162	30,96,78,789
10. Misc. Receipts	8,45,418	4,87,229
11. Fine money / Penalty Charges	3,04,418	5,600
Total	15,67,89,790	32,49,29,587
Grand Total (A+B+C+D)	19,43,94,384	35,90,58,077

Date: The 15th July, 2024

Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31ST MARCH 2024

SCHEDULE 14- PRIOR PERIOD INCOME

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

Date: The 15th July, 2024
Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31ST MARCH 2024
SCHEDULE 15 - STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)

Particulars	CURRENT YEAR		Total	PREVIOUS YEAR		Total
	Plan	Recurring		Plan	Recurring	
A) Salaries and Wages						
Teaching & Admin	-	58,87,81,967	58,87,81,967	-	44,28,62,674	44,28,62,674
Group B & C	-	4,07,63,379	4,07,63,379	-	1,21,04,847	1,21,04,847
Group D	-	-	-	-	1,93,83,954	1,93,83,954
14% NPS Contribution	-	5,08,80,942	5,08,80,942	-	3,89,25,164	3,89,25,164
B) Other Adhoc						
Salary of Contractual Teaching & Admin	-	2,31,94,236	2,31,94,236	-	1,71,67,233	1,71,67,233
Salary of M R Staff	-	1,61,86,581	1,61,86,581	-	1,61,57,178	1,61,57,178
C) Allowances & Bonus						
Cumulative Professional Dev. Allowance	-	1,94,48,768	1,94,48,768	-	74,74,851	74,74,851
D) Contribution to Other Fund						
NPS Contribution	-	-	-	-	-	-
Pension contribution (Deputation)	-	-	-	-	-	-
EPF Contribution (Employer) MR	-	12,72,136	12,72,136	-	13,75,068	13,75,068
CPF Contribution	-	-	-	-	1,39,944	1,39,944
EPF Contribution Contractual & others	-	10,81,992	10,81,992	-	10,93,198	10,93,198
E) Staff Welfare Expenses						
Mobile & Telephone expenditure	-	7,57,524	7,57,524	-	3,79,020	3,79,020
F) Retirement and Terminal Benefits						
Death cum Retirement Gratuity	-	1,44,53,674	1,44,53,674	-	89,12,068	89,12,068
Pension	-	11,01,66,150	11,01,66,150	-	8,45,91,757	8,45,91,757
Commuted Pension	-	1,55,58,690	1,55,58,690	-	1,36,02,801	1,36,02,801
Leave Encashment	-	94,09,658	94,09,658	-	64,62,981	64,62,981





Particulars	CURRENT YEAR			PREVIOUS YEAR		
	Plan	Recurring	Total	Plan	Recurring	Total
Leave Salary (Deputation)	-	-	-	-	-	-
G) LTC facility						
Home Travel Concession	-	9,44,067	9,44,067	-	-	-
Leave Travel Concession	-	60,90,630	60,90,630	-	83,22,375	83,22,375
H) Medical facility						
Medical Reimbursement	-	42,89,043	42,89,043	-	22,41,463	22,41,463
Medicine & Dispensary expenses	-	-	-	-	-	-
I) Children Education Allowances						
	-	44,27,000	44,27,000	-	41,81,000	41,81,000
J) Honorarium						
	-	16,47,023	16,47,023	-	15,13,421	15,13,421
K) Others :						
Security Services	-	-	-	-	6,84,07,537	6,84,07,537
House Keeping	-	-	-	-	5,18,57,939	5,18,57,939
Joining Time TA	-	99,842	99,842	-	29,529	29,529
Relocation Charges	-	3,68,568	3,68,568	-	1,62,903	1,62,903
Total	-	90,98,21,870	90,98,21,870	-	80,73,48,905	80,73,48,905

Date: The 15th July, 2024

Place: Silchar



Annual Accounts 2023-24



NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31ST MARCH 2024

SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFITS

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

Date: The 15th July, 2024

Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31ST MARCH 2024

SCHEDULE 16- ACADEMIC EXPENSES

Particulars	CURRENT YEAR			PREVIOUS YEAR		
	Plan	Recurring	Total	Plan	Recurring	Total
a) Laboratories expenses	-	14,11,549	14,11,549	-	14,31,956	14,31,956
b) Field work/Participation in Conferences	-	-	-	-	-	-
c) Expenses on Seminars/workshops	-	16,79,903	16,79,903	-	9,79,567	9,79,567
d) Payment to visiting guest faculty	-	2,15,000	2,15,000	-	1,48,000	1,48,000
e) Examination Expenses	-	41,06,031	41,06,031	-	31,74,445	31,74,445
f) Students Welfare expenses - Student Internship	-	-	-	-	-	-
g) Admission expenses	-	-	-	-	-	-
h) Convocation expenses	-	32,49,314	32,49,314	-	27,87,715	27,87,715
i) Publications	-	-	-	-	-	-
j) Stipend / Scholarship for PG & PhD	-	19,22,78,556	19,22,78,556	-	18,63,11,433	18,63,11,433
k) Subscription expenses	-	-	-	-	-	-
l) Contingency to Ph.D. Scholars	-	-	-	-	-	-
m) Students Project Expenses	-	8,15,024	8,15,024	-	1,80,286	1,80,286
n) Library Contingency	-	-	-	-	30,444	30,444
o) Industry Visit (MBA)	-	-	-	-	-	-
p) Student Orientation Program	-	3,45,639	3,45,639	-	1,94,520	1,94,520
q) Summer Term Course Expenses	-	38,384	38,384	-	-	-
r) Academic Audit Expenses	-	92,331	92,331	-	1,38,676	1,38,676
s) Student Activity Expenses	-	2,57,480	2,57,480	-	1,85,560	1,85,560
Total	-	20,44,89,211	20,44,89,211	-	19,55,62,602	19,55,62,602

Date: The 15th July, 2024

Place: Silchar



Annual Accounts 2023-24



NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31ST MARCH 2024

SCHEDULE 17 - ADMINISTRATIVE AND GENERAL EXPENSES

Particulars	CURRENT YEAR		PREVIOUS YEAR	
	Plan	Recurring	Plan	Recurring
	Total	Total	Total	Total
Other Establishment Expenses				
A. Infrastructure				
Electricity	-	4,47,92,169	-	3,64,37,797
Water Charges	-	94,95,632	-	93,01,005
Solar Energy Charges	-	26,26,211	-	17,53,353
B. Communication				
Postage	-	1,27,434	-	1,27,375
Telephone, Fax and Internet Charges	-	-	-	-
C. Others				
Printing and Stationery	-	36,35,385	-	42,29,159
Travelling and local conveyance Exp (TA/DA)	-	21,38,869	-	26,81,831
Hospitality	-	7,53,627	-	10,67,501
Auditors Remuneration	-	5,87,620	-	4,89,300
Professional Charges and Legal fees	-	9,73,552	-	-
Advertisement and Publicity	-	14,24,659	-	20,88,299
Magazines & Journals -(News paper periodicals)	-	24,326	-	15,797
Training & Placement expenses	-	2,44,683	-	1,33,546
Board & Committee meeting	-	11,66,337	-	5,13,985
Computer Consumable	-	5,87,040	-	1,80,060
Initiative to foster Social Responsibility	-	-	-	-
Misc. Expenses	-	1,11,550	-	1,40,746
Gyan Sagar expenses	-	68,230	-	1,74,041
Celebration of National Day	-	22,19,441	-	36,87,682
NCC & NSS Activity	-	12,67,356	-	3,21,816
Promotion of Rashtra Bhasha	-	12,766	-	3,66,469
Consumable expenses	-	9,98,142	-	5,80,697
Contingency Exp	-	-	-	-





Particulars	CURRENT YEAR			PREVIOUS YEAR		
	Plan	Recurring	Total	Plan	Recurring	Total
Other Establishment Expenses						
Celebration of Foundation Day	-	5,97,879	5,97,879	-	-	-
Innovation Lab Exp	-	2,52,307	2,52,307	-	10,774	10,774
Other Admin Exp	-	40,14,799	40,14,799	-	51,80,987	51,80,987
Registration/Nomination fees	-	7,34,958	7,34,958	-	1,77,000	1,77,000
NABL Expenses	-	-	-	-	-	-
NSDL Service Charges	-	49,616	49,616	-	-	-
Gymkhana Expenditure	-	18,21,812	18,21,812	-	22,51,280	22,51,280
Swachh Bharat Mission Exp	-	-	-	-	-	-
Insurance against Assets	-	5,34,967	5,34,967	-	-	-
Inter NIT Sports Meet	-	27,47,113	27,47,113	-	26,775	26,775
Medicine & Dispensary expenses	-	14,26,967	14,26,967	-	7,75,353	7,75,353
Trasnit House Rent	-	-	-	-	16,50,000	16,50,000
Conclave exp	-	5,52,510	5,52,510	-	-	-
Security Services	-	8,73,15,840	8,73,15,840	-	-	-
House Keeping	-	6,28,88,952	6,28,88,952	-	-	-
Fine and Penalty	-	40,81,132	40,81,132	-	-	-
TOTAL	-	24,02,73,881	24,02,73,881	-	7,43,62,628	7,43,62,628

Date: The 15th July, 2024

Place: Silchar



Annual Accounts 2023-24



NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM

SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31ST MARCH 2024

SCHEDULE 18 - TRANSPORTATION EXPENSES

Amount in Rupees

Particulars	CURRENT YEAR			PREVIOUS YEAR		
	Plan	Recurring	Total	Plan	Recurring	Total
1. Vehicles (owned by Institution)						
a) Running Expenses	-	47,71,523	47,71,523	-	43,95,107	43,95,107
b) Insurance Expenses	-	2,05,444	2,05,444	-	1,31,826	1,31,826
2. Vehicles taken by Rent/Lease						
a) Rent/Lease Expenses	-	-	-	-	-	-
3. Vehicle (Taxi) hiring Expenses	-	-	-	-	-	-
TOTAL	-	49,76,967	49,76,967	-	45,26,933	45,26,933

Date: The 15th July, 2024

Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31ST MARCH 2023

SCHEDULE 19 - REPAIRS & MAINTENANCE

Particulars	CURRENT YEAR			PREVIOUS YEAR		
	Plan	Recurring	Total	Plan	Recurring	Total
a) Buildings	-	2,10,13,648	2,10,13,648	-	1,66,60,840	1,66,60,840
b) Furniture & Fixtures	-	91,807	91,807	-	3,44,253	3,44,253
c) Plant & Machinery incl office equip.	-	35,77,888	35,77,888	-	46,56,279	46,56,279
d) Scientific Equipment - (Digital Labrory)	-	-	-	-	-	-
e) Audio Visual Equipment	-	-	-	-	-	-
f) Cleaning Materials & Casual work	-	890	890	-	28,721	28,721
g) Book Binding Charges	-	-	-	-	-	-
h) Gardening and Horticulture	-	1,08,85,666	1,08,85,666	-	85,55,376	85,55,376
i) Estate Maintenance (Electrical)	-	21,50,640	21,50,640	-	56,69,510	56,69,510
j) D.G. Set	-	1,68,15,426	1,68,15,426	-	1,46,17,112	1,46,17,112
k) Networking including AMC	-	43,83,889	43,83,889	-	68,50,698	68,50,698
l) Guest House Maintenances	-	3,69,520	3,69,520	-	3,91,090	3,91,090
TOTAL	-	5,92,89,374	5,92,89,374	-	5,77,73,879	5,77,73,879

Date: The 15th July, 2024

Place: Silchar



Annual Accounts 2023-24



NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31ST MARCH 2023

SCHEDULE 20 - FINANCE COSTS

Particulars	CURRENT YEAR		Total	PREVIOUS YEAR		Total
	Plan	Recurring		Plan	Recurring	
a) Bank Charges	-	17,565	17,565	-	23,506	23,506
b) Others	-	-	-	-	-	-
TOTAL	-	17,565	17,565	-	23,506	23,506

SCHEDULE 21 - OTHER EXPENSES

Particulars	CURRENT YEAR		Total	PREVIOUS YEAR		Total
	Plan	Recurring		Plan	Recurring	
a) Provision for Bad and Doubtful Debts/Advances	-	-	-	-	-	-
b) Irrecoverable Balances/Written-off	-	-	-	-	-	-
c) Grants to Kendriya Vidyalaya	-	4,24,41,200	4,24,41,200	-	3,53,58,800	3,53,58,800
d) Support/Salaries to NITS-KIDS staff	-	-	-	-	-	-
TOTAL	-	4,24,41,200	4,24,41,200	-	3,53,58,800	3,53,58,800

SCHEDULE 22 - PRIOR PERIOD EXPENSES

Particulars	CURRENT YEAR		Total	PREVIOUS YEAR		Total
	Plan	Recurring		Plan	Recurring	
1) Establishment Expenses (CEA)	-	-	-	-	-	-
2) Academic Expenses	-	-	-	-	-	-
3) Administrative Expenses	-	-	-	-	-	-
4) Transportation Expenses	-	-	-	-	-	-
5) Repair & Maintenance	-	-	-	-	-	-
6) Others	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-

Date: The 15th July, 2024
Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

SIGNIFICANT ACCOUNTING POLICIES

SCHEDULE: 23

1. BASIS FOR PREPARATION OF ACCOUNTS

National Institute Of Technology, Silchar (ৰাষ্ট্ৰীয় প্ৰযুক্তিগতীকী সংস্থান, সিলচৰ) is one of the 31 National Institutes of Technology of India and was established in 1967 as a Regional Engineering College in Assam. In 2002 it was upgraded to the status of National Institute of Technology and was declared as Institute of National Importance under the National Institutes of Technology Act, 2007. The financial statements are prepared under the Historical cost convention and on the basis of Generally Accepted Accounting Principles in India. Institute's accounts are maintained on accrual system of accounting in terms of the New System.

2. REVENUE RECOGNITION

- 2.1 Fees from students (except Tuition Fees), Application fee, Interest on Savings Bank accounts, hiring charges of shop and canteen are accounted on cash basis. Tuition Fees collected separately for each semester is accounted on accrual basis.
- 2.2 Income from Land, Buildings & other Property and Interest on Investments are accounted on accrual basis.
- 2.3 Interest on interest bearing advances to staff for Soft Loan is accounted on actual basis every year.

3. FIXED ASSETS AND DEPRECIATION

- 3.1 Fixed assets are stated at cost of acquisition including inward freight, duties and taxes and incidental and direct expenses related to acquisition and commissioning.
- 3.2 Depreciation on Fixed assets is provided on written down value method instead of SLM method as followed in earlier years. As regard to Govt. of India guidelines for providing depreciation on straight line method, the same could not be given effect during 2023-24 also due to the fact that, change in method and rate of depreciation on the assets procured prior to 2014-15 will attracts complicity.



Annual Accounts 2023-24



NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

Tangible Assets

Rate of Depreciation

1. Land	0%
2. Site Development	0%
3. Buildings	2%
4. Roads & Bridges	2%
5. Tube wells & Water Supply	2%
6. Sewerage and Drainage	2%
7. Electrical Installation and equipment	5%
8. Plant & Machinery	5%
9. Scientific & Laboratory Equipment	8%
10. Office Equipment	7.5%
11. Audio Visual Equipment	7.5%
12. Computers & peripherals	20%
13. Furniture, Fixtures & Fittings	7.5%
14. Vehicles	10%
15. Lib. Books & Scientific journals	10%

Intangible Assets (amortization):

1. E-Journals & E-Books	40%
2. Computer Software	40%
3. Patents and Copyright	9 years

3.3 Rate of depreciation charged during the financial year reviewed and corrected as per direction of earlier audited and effect given accordingly wherever necessary. Depreciation is worked out 100% on the opening balance and proportionately on additions during the year.



The amount of depreciation has been adjusted with the Capital Fund account and simultaneously shown under "Other Income" in the Income & Expenditure A/c.



NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

3.4 Assets created out of Sponsored Projects funds, are setup by credit to Current Liabilities (Schedule No. 3.A), with separate entity. No such depreciation on the Assets created out of projects has been charged, as acquisition of ownership of those assets are yet to be declared / received.

3.5 Electronic Journals (E-journals) are separated from library books in view of the limited benefit that could be derived from the on-line access provided. E-journals are not in a tangible form, but temporarily capitalized in view of the magnitude of expenditure and the benefit derived in terms of perpetual knowledge of academic and research scholars. Depreciation is provided in respect of E-journals at a higher rate of 40%, as against depreciation of 100% provided in respect of library books, since the access is permitted for a specific period only.

3.6 No depreciation has been charged on E-Books since the procurement of e-books are made on perpetual basis for the Institute.

4. **STOCKS:** Expenditure on purchase of chemicals, glassware, publications other stores as revenue expenditure, they are valued at cost.

RETIREMENT BENEFITS

Retirement benefits of employees appointed prior to the year 2004 are entitled to pension and terminal benefits such as Gratuity, Commuted value of Pension, Leave Encashment etc., are shown at actual as per provisions made by the Institute in annual Budget as Grants in Aid and provided for as per orders of the Govt. of India and paid as per schemes as applicable from time to time. Employees appointed after 2004 are governed by the New Pension Scheme to whom on a monthly basis and employer's unequal contribution is paid from the salary grants provided under Plan (recurring) Grant duly budgeted.

INVESTMENT

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

Earmarked/ Endowment Funds.

The following long term funds are earmarked for specific purpose. Most of the funds have separate bank account. Those with large balances also have invested in term deposits with Nationalized Banks (State Bank of India).



NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

The income from Investment/advances, interest on savings Bank Accounts are credited to the respective Funds. The expenditure and advances if any, are debited to the fund. The balance in the respective funds is carried forward and is represented on the assets side by the balance at Bank, Investments and accrued interest. Effect shown under schedule of Investment regarding cost of investment worth Rs.357.54 made out from Corpus/ Capital fund which was lying with Institute account against excess of income over expenditure.

7.1 CORPUS FUND

Corpus Fund is created in compliance with Govt. of India, MHRD, Department of Higher Education, New Delhi vide letter no. F.21-7/2006-TS.III dated 31.03.2006. This fund is in the nature of Endowment Fund. Income from the investments of the fund is added to the fund. The balance in the Corpus Fund which is carried forward is represented by the balance in a separate bank Account, investment in fixed deposits and SBI Mutual fund with the Bank and Accrued interest on investments.

8. GOVERNMENT GRANTS

8.1 As per guidelines of the Ministry of Expenditure in its OM no. F. No. 1(18)-B(AC)/2017, dtd 22/02/2021 universal implementation of Treasury Single Account (TSA) in all Autonomous Bodies were made mandatorily wherein autonomous bodies are directly draw funds from the Government's account at the time of actual expenditure, save interest costs. The TSA system was extended for its universal application from FY 2021-22.

8.2 Due to implementation of Treasury Single Account (TSA) system by the assignment account through RBI in PFMS w.e.f. end of July, 2022. Governments' grants are receipt and utilized (against respective payments made through TSA) on real time basis only. Write back of Un-utilized amount lying in the assignment account to the Consolidated Fund of India at the close of the financial year automatically (midnight of the 31st March).

8.3 Government Grants are accounted on Cash Basis due to implementation of Treasury Single Account (TSA) system through PFMS. During the FY 2023-24 an amount of Rs.15887.00 Lakh was receipt as GIA in TSA through PFMS towards Plan recurring under OH- 31 was Rs.6270.00 lakh and OH- 36 was Rs.7067.00 lakh respectively wherein under Plan Non-Recurring under OH-35 was Rs.2550.00 Lakh.





NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

Out of which total payment made through TSA against utilization GIA was Rs.15704.79 Lakh towards various incurred expenditure and other relevant payments during the financial year 2023-24 alongwith payment of e-journal/ subscription, prepaid insurance and other advance deposit work etc. The total utilization grant towards various expenditure booked under **OH- 31 was Rs.6270.00 lakh, OH- 36 was Rs.7067.00 lakh and OH-35 was Rs.2367.79 lakh** respectively. An amount of Rs.989.00 lakh kept provision under recurring and nonrecurring expenditure during the financial year.

8.4 To the extent utilized of capital expenditure during the financial year worth Rs.2460.11 lakh Government grants are transferred into the Capital fund.

8.5 Government Grants for meeting revenue Expenditure are treated utilized and simultaneously, transferred to Income and Expenditure A/c as Income from Grants and Subsidies alongwith provision of committed expenditure for the current financial year to be paid from GIA from next FY.

8.6 Unutilized grants including advances paid out of such grants are carried forward and exhibited as liability in the Balance Sheet.

8.7 As per direction of BoG and suggestion of Audit utilization / adjustment of IRG during the FY 2022-23 and 2023-24 respectively made as per following in regards to the opening negative balances. The value of IRG accounted for during the financial year is Rs.37,29,52,630.00 lakh out of that excess expenditure over and above utilization of revenue grant Rs.12,76,10,068.00 were adjusted related to the financial year.

Component head	Opening negative balance of grant	Adjustment of IRG during CFY 2023-24	Adjustment of IRG from last FY 2022-23	Total adjustment at the end of the FY 2023-24 as per respective schedule against opening negative grant
OH-35	4,44,32,216	4,44,32,216	0.00	4,44,32,216
OH-31	21,02,72,207	10,00,00,000	11,02,72,207	21,02,72,207
OH-36	7,65,73,181	7,65,73,181	0.00	7,65,73,181
Total	33,12,77,604	22,10,05,397	11,02,72,207	33,12,77,604



Annual Accounts 2023-24



NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

8.8 Due to implementation of TSA system unspent balance against sanctioned GIA lapsed automatically in the midnight of 31st March of the financial year, hence, no such closing balances remain left. However, to give the true and fair view closing balances are carry forwarded as per standard practices. An amount of Rs.182.21 lakh lapsed from non-recurring grant during financial year 2023-24.

9. INVESTMENTS OF FARMARKED FUNDS AND INTEREST INCOME ACCRUED ON SUCH INVESTMENTS:

To the extent not immediately required for the expenditure, the amounts available against such funds are invested in fixed term deposits with Banks and SBI Mutual fund leaving the balance in its savings Bank Accounts. Interest received, interest accrued due and interest accrued but not due on such investments are added to the respective funds as income of the institution. Investment in the form of STDR and MF has been auto renewed during the year and necessary disclosure shown thereon in the schedule of investment.

10. SPONSORED PROJECTS

In respect of ongoing Sponsored Projects, the amount received from sponsoring authority is credited to the head "Current Liabilities and Provisions- Current Liabilities-Other Liabilities-Receipt against ongoing sponsored projects". As and when expenditure is incurred/ advances are paid against such projects, or the concerned project account is debited with allocated overhead charges, the liability account is debited. Assets procured from sponsored project is yet to be acquired as Institute Assets due to non-receipt of acquisition certificate from the respective sponsoring authority. The total assets created out of sponsored project till 31/03/2024 was Rs.3139.44 lakh out of that Rs.1992.30 under TEQIP (Ph- I and II) and Rs.1147.14 lakh (approx.) under research and consultancy respectively.

11. The Institution itself also awards Scholarships to M.Tech/M.Sc. & Ph.D. scholars, which are accounted as academic expenses.
12. In compliance of audit observation as per SAR of FY 2022-23 expenditure towards housekeeping and security services for the year shifted from schedule 15 to schedule 17.
12. In compliance of audit observation for the year 2018-19, excess of income over expenditure amounting to Rs.151.06 lakh during the current year 2023-24 transferred to Corpus /Capital Fund account after adjustment of opening negative grant.





NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

14. Unequal employers' contribution as per Gol norms in NPS is to be followed.
15. Shifting of pension fund contribution made during the financial year against the respective retired employees. Remaining portion of amount is in progress for calculation against the Govt. servant those who are still in service.
16. Corpus fund investment matured in financial year 2024-25 and necessary shifting of fund from Corpus fund to Corpus / Capital fund Rs.17.22 Cr. completed accordingly. in pursuance to the audit observation. However, accounting effect on the same were not shown on balance sheet due to fund position as on 31/03/2024 as per schedule 7 and will be given effect in next financial year.

Date: The 15th of July, 2024

Place: Silchar




Registrar
কুলসচিব
রা.প্র.সং. সিলচর-১০
REGISTRAR
NIT SILCHAR-10


Director
নির্বাহক
রা.প্র.সং. সিলচর-১০
DIRECTOR
NIT SILCHAR-10



NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

SCHEDULE: 24

CONTINGENT LIABILITIES AND NOTE TO ACCOUNTS (ILLUSTRATIVE)

1. **CONTINGENT LIABILITIES:** There is no contingent liability during the year under report.
2. **CAPITAL COMMITMENTS:** All the major works have been completed and thus there is no Capital commitment during the year.
3. **FIXED ASSETS:**
 - 3.1 Addition in the year to Fixed Assets in Schedule 4 includes Assets purchased out of Plan Funds Rs.2460.11 lakh. The assets have been set up by credit to Capital Fund.
 - 3.2 In the Balance Sheet as on 31.03.24 and the Balance Sheets of earlier years, fixed assets created out of Plan funds were exhibited distinctly. The additions during the years, from plan and other funds, and the depreciation on those additions respectively have been exhibited in the Sub Schedules A,B,C,D & E to the main schedules of Fixed Assets (Schedules 4).

4. CURRENT ASSETS, LOANS, ADVANCES AND DEPOSITS

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

5. The details of the Balances in the Savings Bank accounts, Current accounts with Banks are depicted in Schedule 7A of Schedule of Current assets. The details of Investment with banks against various funds are annexed separately in page no. 16, 17, 18 & 19 of the Annual Accounts.
6. Figures in the Final accounts have been rounded off to the nearest rupee.
7. Schedules 1 to 22 are annexed and form an integral part of Balance Sheet at 31st March 2024, and the Income & Expenditure account for the year ended on that date.





NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

8. Provident Fund Accounts (GPF) and the New Pension Scheme (NPS) accounts are shown separately with the Institute Accounts alongwith schedule of investment made out from GPF Fund account. A Receipt & Payment Account, an Income & expenditure Account and a Balance Sheet of the Provident fund Account as well as the New Pension Schemes for the year 2023-24 have been attached with the Institute accounts.
- The balance heldup in New Pension Scheme as on 31.03.2024 was Rs.251.79 lakh in respect of amount payable against NPS Subscribers towards NPS Subscription and Contribution is yet to be transferred to NSDL, non-allotment/receipt/ delay submission of PRAN number till date.
9. Pension Fund Contribution (Schedule-2): During the year a total amount of Rs.64.74 lakh has been appropriated as income from the Pension Fund Contribution and the same has been stated as revenue expenditure (Endowment Fund).
10. Fixed Assets (Schedule-4): Addition of fixed assets during the year amounting to Rs.2460.11 lakh out of that Rs.2367.79 utilized against GIA during the year. Further expenditure against patent filling cost worth Rs.12.46 has been booked from CPDA and from Project fund respectively.
11. A statement showing the details of investment and interest accrued is annexed, which is corresponding to Schedule 5 and 6.
12. Grants and Subsidies (Schedule-10): The **Unspent/Deficit** balance under Non Recurring Grant (OH-35) was Rs. **NIL** and under Recurring Grant of OH- 31 was Rs. **NIL** & OH-36 was Rs. **NIL** respectively as on 31.03.2024 wherein an amount of Rs.182.21 were lapsed from TSA account in PFMS under Non Recurring Grant (OH-35) and under Recurring Grant of OH- 31 was **Rs. NIL** and OH-36 was **Rs. NIL** respectively.
13. The Institute had spent an amount of Rs.37.96 lakh (incl. project) through foreign currency transaction against procurement of Equipment and other expenses during current financial year.
14. A copy of receipt and payment account related to Consultancy account of the Institute has been appended separately alongwith Institute account.
15. In compliance of audit observation for the year 2022-23 necessary effects on accounts has been given to comply the audit observation related to last separate audit report (SAR).

Date: The 15th of July, 2024

Place: Silchar



[Signature]
Registrar
कुलसचिव
रा.प्रौ.सं. सिलचर-10
REGISTRAR
NIT SILCHAR-10

[Signature]
Registrar
कुलसचिव
रा.प्रौ.सं. सिलचर-10
REGISTRAR
NIT SILCHAR-10

[Signature]
Director
प्राचार्य
रा.प्रौ.सं. सिलचर-10
DIRECTOR
NIT SILCHAR-10

Annual Accounts 2023-24



NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2024

RECEIPTS	CURRENT YEAR	PREVIOUS YEAR	PAYMENTS	CURRENT YEAR	PREVIOUS YEAR
I. Opening Balances:			I. Expenses:		
a) Cash Balances	10,175	13,028	Establishment expenses	83,49,55,039	80,73,37,696
b) Bank Balance :			Academic Expenses	19,16,08,241	19,48,27,123
Current Accounts	9,81,13,230	9,40,61,650	Administrative Expenses	8,41,83,883	7,37,70,202
Savings Account	12,75,89,639	9,34,15,505	Transportation Expenses	47,45,101	44,86,168
			Repairs & Maintenance	19,55,77,363	5,75,83,544
II. Grants Received:			Finance Cost	17,565	23,506
Non Recurring Grant: From Govt of India	25,50,00,000	31,77,00,000	Prior Period Expenses	-	-
Recurring Grant: From Govt of India	1,33,37,00,000	1,24,67,00,000	Other Expenses	4,24,41,200	3,53,58,800
Grants-in-Aid Receivable :					
Non Recurring Grant: From Govt of India	-	-	III. Payments against		
Recurring Grant: From Govt of India	-	-	Earmarked/Endowment Funds	1,99,000	83,434
III. Academic Receipts					
IV. Receipts against Earmarked/Endowment Funds	26,63,30,034	26,69,86,311			
V. Receipts against Sponsored Project: Grants Received from AICTE/GOI	11,32,28,145	5,10,07,831	III. Payments against Sponsored Projects		
Other Misc Receipts against Conference	1,03,18,350	78,65,015	Misc Payments against Grant/Conference	4,45,98,277	3,17,00,445
VI. Receipts against sponsored Fellowships & Scholarships	30,96,561	23,62,758	IV. Payments against Sponsored Scholarships	18,46,906	17,12,420
			V. Investments and Deposits made		
			a) Out of Earmarked	-	31,40,77,833
			b) Out of own funds (Investments-others)	-	-
VII. Income on Investments from Earmarked/Endowment funds	1,06,814	43,491	VI. Term Deposits with Schedule Banks	-	58,50,92,900
Other Investments	-	-	VII. Expenditure on Fixed Assets and Capital Works- in-Progress		
VIII. Interest received : Bank Deposit	-	-	a) Fixed Assets	18,09,11,916	11,06,18,318
			b) Capital works -in- Progress	-	-





RECEIPTS	CURRENT YEAR	PREVIOUS YEAR	PAYMENTS	CURRENT YEAR	PREVIOUS YEAR
Loans and Advances (Margin Money)	-	-	VIII. Other Payments including statutory	11,47,71,963	9,81,62,299
Savings Bank Account	46,74,622	31,21,029			
Interest on Others	-	79,25,796	IX. Refund of Grants (Sponsored Projects)	9,61,05,339	30,02,35,205
Against Project Account					
			X. Deposits and Advances	6,58,84,673	8,37,97,478
IX. Investments encashed					
IX (a). Margin Money for LC Project	-	13,67,162	XI. Other Payments	22,94,44,348	22,33,29,453
X. Term Deposits with Scheduled Banks encashed	-	62,67,78,991			
XI. Other Income (including prior Period Income)	5,23,96,945	3,81,03,402	XII. Closing balances		
			a) Cash in hands	1,576	10,175
XII. Deposits and Advances			b) Bank balances		
Plant Machinery & Equipment			Current Accounts	28,00,41,676	9,81,13,230
Other Deposits (S Debtors)			Savings Account	27,36,27,627	12,75,89,639
Loans & Advances	7,31,181	3,25,29,917			
Loans & Advances	4,22,10,455	9,09,96,434			
XIII. Miscellaneous Receipts including Statutory Receipts	21,81,37,678	18,00,87,348			
XIV. Any other Receipts	10,55,29,679	7,34,49,579			
TOTAL	2,64,09,61,693	3,14,74,09,899	TOTAL	2,64,09,61,693	3,14,74,09,899

Date: The 15th July, 2024
Place: Silchar



[Signature]
Registrar
NIT SILCHAR-10

[Signature]
Registrar
NIT SILCHAR-10

[Signature]
Director
NIT SILCHAR-10



NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULES FORMING PART OF RECEIPTS & PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2024

RECEIPTS :	Particulars	Current Year	Amount in Rupees Previous Year
GRANTS-IN-AID RECEIVED FROM GOVT OF INDIA :			
	NON RECURRING GRANT : RECEIVED FROM GOVT OF INDIA: OH-35	25,50,00,000	31,77,00,000
	RECURRING GRANT: RECEIVED FROM GOVT OF INDIA OH-36 (SALARIES)	70,67,00,000	67,83,00,000
	RECURRING GRANT: RECEIVED FROM GOVT OF INDIA OH-31 (GENERAL)	62,70,00,000	56,84,00,000
	Total	1,58,87,00,000	1,56,44,00,000
Academic Receipts			
Academic Fee			
	Tuition Fees	21,83,80,696	22,45,51,591
	Admission Fee	85,51,100	90,57,000
	Library Fee	46,52,508	49,06,040
	I.T System Fee	91,95,800	96,65,800
	Examination Fee	88,75,639	91,72,111
	Late Fine/Penalty	3,79,704	10,09,616
	Misc Fees	7,37,286	-1,05,741
	Medical Facility Fee	30,26,350	28,94,940
	Transportation Fees	34,84,800	28,27,300
	Registration and Participation Fee	-	-
	Convocation fee	6,23,251	7,19,406
Other Academic Receipts			
	Training & Placement Fee	45,01,900	2,78,247
	Short Term Training Programme Fee	-	-
	Development Fee	39,21,000	20,10,000
	Total	26,63,30,034	26,69,86,311
EARMARKED / ENDOWMENT FUND:			
	Pension Fund Contribution	64,74,372	-
	Employees welfare fund	-	-
	Student Aid Fund	12,44,700	6,70,000
	Total (A)	77,19,072	6,70,000





RECEIPTS :		Current Year	Amount in Rupees Previous Year
CORPUS FUND :			
Corpus Fund			1,15,86,351
Corpus fee received from Students		12,56,000	6,37,000
Migration fee (Charged under income of Corpus Fund)		1,900	1,200
Institute Share from Transcript fee & Verification Fee		7,20,090	-
Corpus Fund interest on Savings Bank		91,123	-
	Total (B)	20,69,113	1,22,24,551
	Grand Total (A+B)	97,88,185	1,28,94,551
SPONSORED PROJECTS:			
Grants Received against Sponsored Projects:			
MCIT : Gol		-	3,89,843
SERB : Gol		4,47,87,057	1,68,51,776
DST: Gol		3,53,94,699	1,55,82,900
MNRE: Gol (RTC)		-	-
BRNS: Gol		-	-
UGC		-	-
MOESc		-	-
ICSSR		5,54,050	1,019
DEITY		17,87,385	38,347
CPRI		1,07,21,056	26,75,144
ARDB		-	-
NMHS		1,17,633	52,21,000
SPARC Scheme		-	-
CSIR		1,51,57,405	78,72,059
KVIC		9,33,860	-
ASTEC		-	5,00,000
MSME		-	-
APIN		-	-
Other Project		9,75,000	8,28,285
IITGTIDF Project		28,00,000	10,47,458
	Total	11,32,28,145	5,10,07,831





RECEIPTS :		Current Year	Amount in Rupees Previous Year
OTHER MISC. GRANTS/SPONSHORSHIP:			
Received from SERB (DST)		-	-
Received from Project		-	-
Manish Roy Memorial Scholarship Fund		6,597	6,408
K.K Mrinalini Kroni Gold Medal Fund		3,299	3,204
Abhijit Hom Choudhury Memorial Award Fund		485	471
Saswata Purkayastha Memorial Fund		3,572	3,471
GIAN Course Fee		-	28,000
GIAN FUND		3,28,000	9,36,000
Payable Against TEQIP III		-	-
Payable Against NEET 2019 Exam		-	1,48,064
START UP India		28	28
Payable to Project A/c		56,300	-
QIP Grants		634	649
Special Exam		1,75,000	-
To-STO online exam payable		34,398	-
West Bengal JEE		180	34,265
Academic Development Fee (MBA)		19,53,000	19,53,000
SPARC Scheme		-	-
Conference Fund payable		77,26,305	47,51,455
Contingency Dean (RC)		13,500	-
CSRL-CBT online exam payable		17,052	-
Total		1,03,18,350	78,65,015
VI. Receipts against sponsored Fellowships and Scholarships:			
Outside Scholarship		30,96,561	23,62,758
Doctoral Fellowship (ICSSR)		-	-
Total		30,96,561	23,62,758
INTEREST RECEIVED FROM EARMARKED FUND:			
Depreciation Fund Interest on Savings Account		16,781	16,300
Maintenance Fund Interest on Savings Account		23,826	23,144
Staff Dev Fund Interest on Savings Account		4,165	4,047
Kids Fund Interest on Savings Account		62,042	-





RECEIPTS :		Particulars	Current Year	Amount in Rupees Previous Year
		Total	1,06,814	43,491
	Interest Earned			
	Interest on Saving A/c			
	Interest on Fees A/c		25,80,862	4,72,455
	Interest on Scholarship A/c		2,58,720	2,23,863
	Interest on Savings Bank A/c		3,43,407	1,44,242
	Interest on Savings Bank A/c (Project)		14,91,633	22,80,469
	Interest on TDS			-
	Total		46,74,622	31,21,029
	Interest Others			
	Interest Others (from Plan/Non-plan Investment)		-	79,25,796
	Total		-	79,25,796
	Interest Against Project A/c			
	Interest on Saving A/c (Sponsored projects a/c.)		-	-
	Misc Receipts		-	-
	Total		-	-
	Investment with scheduled banks			
	Investment (Corpus Fund)		-	28,38,04,504
	Investment (Depreciation Fund)		-	-
	Investment (Maintenance Fund)		-	-
	Investment (Staff Dev. Fund)		-	-
	Investment (KIDs NITS Fund)		-	-
	Investment (Nonplan)		-	34,29,74,487
	Investment (Nonplan Fees)		-	-
	Investment (Plan- Margin Money A/C)		-	-
	Total		-	62,67,78,991
	Other Income (Including Prior Period Income)			
	Income From Land & Building			
	License Fee		41,35,002	41,21,137
	Hire Charges for Shops Canteen and Office		3,87,200	6,35,683
	Seat Rent/Hostel Room Rent		1,31,21,727	93,34,638
	Guest House Room Rent		24,61,254	18,54,333
	Electricity Consumption Receipts		80,70,023	69,91,146



Annual Accounts 2023-24



RECEIPTS :	Particulars	Current Year	Amount in Rupees Previous Year
	Light & Water (Hostel)	82,51,350	88,77,000
	Other Income		
	RTI Fees	190	320
	Application Fee	71,02,328	1,17,181
	Tender Form Fee	58,000	36,500
	Institute Overhead on Project and Others	39,05,902	29,10,126
	Misc Receipts	4,47,744	1,62,316
	Institute Overhead on Consultancy	41,51,807	30,57,422
	Late Fine/Penalty	3,04,418	5,600
	Total	5,23,96,945	3,81,03,402
	Margin Money for LC_Project		13,67,162
	Total	-	13,67,162
	OTHER DEPOSITS:		
	Accrued Interest on LC Investment	-	-
	Accrued Interest on Corpus Fund	-	1,87,69,322
	Accrued Interest on Depreciation Fund	-	-
	Accrued Interest on Maintenance Fund	-	-
	Accrued Interest on Staff Dev Fund	-	-
	Accrued Interest on Non Plan Fund	-	1,32,01,038
	Accrued Interest on KIDS NITS Fund	-	-
	Electricity Consumption Receivable	2,74,409	2,95,716
	House Rent/Licence Fee Recivable	2,68,073	2,44,061
	Shops and Canteen rent receivable	1,88,699	19,780
	Total	7,31,181	3,25,29,917
	Loans,Advances & Deposits		
	Sundry Debtors		
	M.Tech 1st sem 2020 batch	-	-
	Advance to Employees		
	HTC Advance	-	-
	LTC Advance	10,545	7,30,331
	Other Advance To Employees		





RECEIPTS :		Particulars	Current Year	Amount in Rupees Previous Year
		Recoverable Advance	1,17,29,860	1,27,25,393
		Recoverable Advance (Project)	2,39,600	7,37,600
		TA Advance	31,01,058	11,40,659
		TA Advance (Project)	2,05,000	1,89,000
		Soft Loan (Staff)	2,25,344	2,90,952
		Interest Free Loan	1,46,400	1,75,200
		IIT Ghj (Project)	-	1,537
		Receivable from Institute (Project)	-	180
		Deposit Work		
		CPWD	-	-
		Receivable from CSAB against Fee	-	5,49,97,000
		Receivable from CCMT against Fee	-	-
		Receivable from CCMT-Others	-	30,95,000
		Receivable from CCMN	-	15,30,000
		Receivable from CP Fund (Against Pension Contb.)	1,43,34,923	-
		Advance to Debjani Suklabaidya	12,87,477	-
		Advance to Dhanpat Kurmi	1,71,000	-
		Advance to Gulanur Hussain Choudhury	9,99,658	-
		Advance to Rajeshree Dey	5,12,000	-
		Loan to ACODS 2022	3,00,000	-
		Security for POL	1,62,084	-
		Advance to Hanny electricals	-	16,79,000
		Advance to Monotosh Bhattacharjee	-	5,91,000
		Advance to Pradip Kr Nunia	-	1,58,460
		Advance to Pratima Traders and Electrical shop	-	13,40,006
		Advance to Ram Babu Kurmi	-	25,96,835
		Advance to S Choudhury and Co.	-	8,35,932
		Advance to Subhrajyoti Acharjee	-	1,36,000
		Advance to Sudev Podder	-	5,36,000
		Advance to BK Construction	-	22,00,000
		Advance to Rafique Uddin Ahmed	-	19,72,856
		IIT Bombay	57,00,000	-
		Receivable from Dhanpat Kurmi	-	67,500





RECEIPTS :	Particulars	Current Year	Amount in Rupees Previous Year
	Receivable from DST SERB	-	17,12,400
	Receivable from Project A/c	20,56,004	15,49,748
	Receivable from Ram babu Kurmi	35,381	-
	Receivable from Suhit Chakraborty	90	-
	Sudev Podder	-	7,470
	SPARCH Scheme receivable	9,94,031	375
	Total	4,22,10,455	9,09,96,434
MISCELLANEOUS RECEIPTS INCLUDING STATUTORY RECEIPTS:			
	Provision -TAX:		
	GST (PAYABLE)	55,34,424	43,49,932
	GST (PAYABLE) Project	6,34,101	3,21,847
	Income Tax (Against Salary & Contracts)	10,69,23,150	9,01,71,678
	Income Tax -Project	3,110	87,720
	Professional Tax	9,77,490	8,96,658
	Professional Tax (Project)	-	5,168
	Labour Cess	1,25,738	2,47,234
	GSLI	4,66,050	4,47,450
	EPF Subscription MR Employee	13,49,227	14,33,419
	EPF Subscription Contractual Staff	10,90,108	9,90,261
	GPF Advance Recovery	27,43,078	20,05,432
	GPF Subscription	1,26,46,364	1,20,84,088
	GPF Subscription (Other org)	-	-
	CPF Subscription	-	1,39,944
	CPF Contribution	-	1,39,944
	NPS Subscription	3,56,94,449	2,78,22,651
	NPS Contribution	4,99,50,389	3,89,43,922
	Total	21,81,37,678	18,00,87,348
CURRENT LIABILITIES			
OTHER DEPOSITS FROM STUDENTS:			
	Hostel Caution Money	93,72,400	-
	Institute Caution Money	71,00,000	1,96,13,284
	Sundry Creditors & Others		





RECEIPTS :		Particulars	Current Year	Amount in Rupees Previous Year
		Vanguards Security Services & Systems	61,30,428	11,51,397
		Earnest Money Deposit	1,13,26,957	1,88,000
		Security Deposit	19,05,537	14,62,346
		Performance Security (Project A/c)	-	-
		Alumini Association Fee	12,88,500	6,70,000
		Deposit Remittance	51,880	5,35,900
		Deposit Remittance (project)	-	20,400
		Recovery of Electricity Charges (Project)	27,436	19,305
		Recovery of Licence Fee (Project)	35,840	54,333
		MNDCS Conferce (Project)	-	1,50,000
		DSC Inspired Farhana Yashmin (Project)	8,89,673	-
		DSC Inspired Baishali Bhattacharjee (Project)	4,46,844	-
		CCTV Payable	14,96,605	14,28,710
		DASA	-	15,000
		Group Insurance Claim	-	-
		Gymkhana	92,85,500	96,89,500
		Leave Encashment Payable (Other Org)	-	1,41,380
		Leave Encashment Payable	-	-
		Liability Towards DCRG	2,50,000	6,00,000
		L.I.C.I Payable	37,19,600	37,34,912
		Pension Fund Contribution (Other Org)	-	-
		Mediclaime Insurance	22,55,370	26,28,610
		Mess Establishment	1,15,04,925	87,31,000
		Processing Charges	56,500	12,500
		Refundable Excess Deposit	1,55,69,253	74,673
		Student Mediclaime	1,84,118	8,00,027
		Transcript Fee	13,23,100	16,83,800
		RPS Project A/c	-	3,82,683
		Verification fee	1,00,400	1,98,000
		Provision -Plan (others)	-	-
		Recovery against Trainee Teachers (RD)	1,10,400	1,01,200
		Unclassified receipts (Institute)	68,59,716	13,29,503
		ATAL FDP Programme Payable	-	9,00,000



Annual Accounts 2023-24



RECEIPTS :		Current Year	Amount in Rupees Previous Year
BHM Fee		39,000	4,51,200
Comprehensive Consultancy Pvt Ltd		8,64,000	-
CEE 2018-23		-	49,125
CSAB Exp		6,03,183	22,54,658
Death Cum Ret. Gratuity Payable		-	-
CUET Exam Payable		-	5,82,400
EDCIL India Ltd		76,82,771	16,35,660
GM finance		15,961	70,199
MSME Project Fund		-	-
CCMT Exp		2,40,500	3,25,500
CoMSO-2020 /2022		-	1,76,000
ACODS 2022		13,43,710	-
Children education Allowance payable		-	36,72,000
Salary (Teaching and Nonteaching) payable		-	14,57,841
Pension (Teaching and Nonteaching) payable		4,96,614	-
Hanney Electricals		-	4,090
Medical Reimbursement Payable		-	3,96,150
UGC NET Exam		71,640	44,650
Converge Systems and Services Pvt Ltd		-	2,03,049
DST Inspire Payable		-	4,25,480
Excess Payment to Suganya Devi K Recoverable		-	22,650
ICKSA 2022 payable		2,28,817	2,95,500
ICRABS 2022 payable		-	34,684
ICWROEE		2,43,394	-
INSA fellowship payable		30,000	-
M.Tech self sponsored programme payable		1,14,000	-
ASDMA payable		5,63,000	-
Mottca 2024 payable		81,388	-
JCA Exam Payble		5,000	11,770
JEE Exam payable		-	1,36,860
MSME Champion		3,50,000	17,00,000
MSME ESDP		-	6,80,000
NTA/CSIR Payable		1,52,860	22,560





RECEIPTS :	Particulars	Current Year	Amount in Rupees	
			Previous Year	
	Payable against Academic writting workshop	4,00,000	-	-
	Payable to Abhisek Paul	10,000	-	-
	Payable to Ankita Das	16,000	-	-
	Payable to Badal Soni	27,689	-	-
	Payable to Bulin Singha	3,767	-	-
	Payable to PhD Students	1,59,000	-	-
	Payable to Rajeshree Dey	1,31,293	-	-
	Payable to Sambhu kurmi	3,500	-	-
	Payable to Subarna Saikia	5,000	-	-
	Payable to Wasim Arif	12,611	-	-
	Payable to Abhijit Baruah	-	5,000	
	Payable to Almas Ali Laskar	-	2,170	
	Payable to Avishek Printers and Publisher	-	93,600	
	Payable to BH Sambharkar	-	4,800	
	Payable to Bijoy Dey	-	1,145	
	Payable to Rajat kr Rabidas	-	1,190	
	Payable to Saumyadeep Das	-	510	
	Payable to Binoy Krishna Roy	-	5,000	
	Payable to Bishal Dhaba	-	14,600	
	Payable to BN Bhandari	-	10,000	
	Payable to Chayan Bhusan Deb	-	17,641	
	Payable to Grade III / IV Exam	3,44,000	6,40,700	
	Payable to Hostel No 8	-	4,093	
	Payable to JouGuru Tour and Travels	-	8,925	
	Payable to Kurmi Printing Press	-	8,012	
	Payable to Laxmi Stores	-	7,433	
	Payable to Madan Lal Soni	-	10,000	
	Payable to Manash Pratim Mahanata	-	61,374	
	Payable to MP Enterprise	-	6,500	
	Payable to Nirmal Trading	-	23,018	
	Payable to Pranjit Barman	-	11,653	
	Payable to Pradipt Purkaystha	-	4,480	
	Payable to Project (TDS)	-	-	-



Annual Accounts 2023-24



Annual Accounts 2023-24

RECEIPTS :	Particulars	Amount in Rupees	
		Current Year	Previous Year
	Payable to Radhakant Padhi	-	5,000
	Payable to Rambabu Bardhan	-	11,290
	Payable to Sangita Traders	-	6,914
	Payable to Saumya Gupta	-	10,000
	Payable to Shri Chaitanya Press	-	1,015
	Payable to SK Kakoty	-	45,000
	Payable to SP Associates	-	37,828
	Payable to Sukumar Pati	-	33,421
	SBI Soneship Payable	-	82,500
	AICTE STTP payable	-	3,50,267
	SIPCOV	-	1,96,000
	Smart Hackathon 2022	-	6,72,000
	TA/DA payable	-	35,611
	AICTE Exam	-	52,500
	Total	10,55,29,679	7,34,49,679
	Grand Total	2,41,52,48,649	2,95,99,19,716

Date: The 15th July, 2024

Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
SCHEDULES FORMING PART OF RECEIPTS & PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2024

PAYMENTS :		Particulars	Current Year	Amount in Rupees	
				Previous Year	
Establishment Expenses					
		Salary Teach & Admin	54,17,81,780		44,28,62,674
		Salary Class-III	1,51,18,452		1,21,04,847
		Salary Class-IV	2,09,02,520		1,93,83,954
		Salary of Cont. Staff (Teach/admin/III/IV)	1,87,83,908		1,71,67,233
		Salary of MR Staff	1,61,86,581		1,61,57,178
		Professional Dev Allowance	1,82,40,299		74,74,851
		NPS Contribution	4,61,36,768		3,89,25,164
		CPF Contribution	-		1,39,944
		EPF Contribution on MR Salary	12,72,136		13,75,068
		EPF Contribution on Contract Staff Salary	10,81,992		10,93,198
		Mobile & Telephone Bill Reimbursement	7,57,524		3,67,811
		Death Cum Ret. Gratuity	1,44,53,674		89,12,068
		Pension	10,15,89,884		8,45,91,757
		Commuted Pension	1,55,58,690		1,36,02,801
		Leave Encashment	94,09,658		64,62,981
		Home Travel Concession	9,44,067		-
		Leave Travel Concession	60,90,630		83,22,375
		Medical Reimbursement	42,89,043		22,41,463
		Medicine & Dispensary Exp	-		-
		Children Education Allowance	2,42,000		41,81,000
		Honorarium/Sitting Fees	16,47,023		15,13,421
		Security Services	-		6,84,07,537
		House Keeping	-		5,18,57,939
		Joining Time T.A	99,842		29,529
		Relocation Charges (Transportation)	3,68,568		1,62,903
		Total	83,49,55,039		80,73,37,696
Academic Expenses					
		Lab Consumable	12,81,704		13,37,283



Annual Accounts 2023-24



PAYMENTS :		Amount in Rupees	
Particulars	Current Year	Previous Year	
Conferences / Seminar	16,79,903	8,55,327	
Examination Expenses	41,06,031	30,26,918	
Convocation Expenses	32,49,314	26,62,840	
Stipend to M.Tech/ Ph.D	17,95,27,431	18,63,11,433	
Student Project Expenses	8,15,024	1,80,286	
Library Contingency	-	30,444	
Student orientation programme	3,45,639	1,35,916	
Summer Term Course Exp	38,384	-	
Workshop & Seminer expense	-	-	
Academic audit Expense	92,331	1,38,676	
Visiting Faculty remuneration	2,15,000	1,48,000	
Student activity expenditure	2,57,480	-	
Total	19,16,08,241	19,48,27,123	
Administrative Expenses			
Electricity & Power Charges	4,16,34,295	3,64,37,797	
Water and Electricity Charges to PHE	88,63,456	93,01,005	
Solar Energy Charges	24,03,428	17,53,353	
Postage Exp	1,27,434	1,27,375	
Printing and Stationary Exp	36,12,735	41,49,182	
Local Conveyance	51,569	10,770	
TA/DA Expenses	16,36,854	25,12,120	
Hospitality Exp/Refreshment	7,53,627	10,18,712	
Audit Fees	5,87,620	4,89,300	
Professional Fee & Legal Exp	7,39,912	-	
Advertisement Expenses	14,24,659	20,88,299	
News Paper & Periodicals	24,326	15,797	
Training & Placement Expenses	2,44,683	1,33,546	
Board & Committee Meeting	700	5,13,985	
Computer Consumable Exp	5,87,040	1,63,571	
Miscellaneous Exp	1,11,550	1,40,746	
Gyan Sagar Exp	68,230	1,74,041	
Celebration of National Day	22,19,441	35,87,682	
NCC & NSS Activities	12,67,356	2,44,933	





PAYMENTS :		Current Year	Amount in Rupees Previous Year
Promotion of Rashtriya Bhasha		12,766	3,66,469
Consumable		9,98,142	5,60,490
Transit House rent		-	16,50,000
Innovation Lab Exp		2,52,307	10,774
Other Admin Exp		40,14,799	49,46,535
NSDL Service Charges		49,616	-
Gymkhana Expenditure		18,21,812	18,94,592
Swachh Bharat Mission Exp		-	-
Celebration Of foundation Day		5,97,879	-
Inter NIT Sports Meet		27,47,113	26,775
NABL expense		-	-
Medicine / Dispensary Exp expense		14,26,967	7,75,353
Registration / Nomination Fee		7,34,958	1,77,000
Insurance Exp- Assets		5,34,967	-
NIT Conclave		5,52,510	-
Fine and penalty		40,81,132	-
Total		8,41,83,883	7,32,70,202
Transportation Expenses			
Vehicle Running Expenses		46,22,029	43,80,107
Insurance Exp- Vehicle		1,23,072	1,06,061
Total		47,45,101	44,86,168
Repairs and Maintenance Expenses			
Repairs & Maintenance- Building & Others		1,96,72,282	1,66,60,840
Maintenance of Furniture & Fixtures		91,807	3,44,253
Repairs and Maintenance- Tools & Equipments		35,77,888	46,26,829
Casual Work & Carriage		890	27,019
Gardening & Horticulture		1,00,99,241	85,55,376
Repairs & Maintenance- Electricity		21,50,640	56,20,426
Maintenance of D.G Set		1,66,02,018	1,46,17,112
Maintenance of Networking		33,53,112	50,05,272
Repairs & Maintenance of Guest House		3,69,520	2,80,991
AMC for IT Facility		10,30,777	18,45,426
Security Services		8,07,08,980	-



Annual Accounts 2023-24



PAYMENTS :		Amount in Rupees	
Particulars		Current Year	Previous Year
House Keeping		5,79,20,208	-
Total		19,55,77,363	5,75,83,544
Finance Cost			
Bank Charges		17,565	23,506
Total		17,565	23,506
Prior Period Expenses			
Repairs & Maintenance- Building & Others		-	-
Total		-	-
Other Expenses			
Support to Kendriya Vidyalaya		4,24,41,200	3,53,58,800
Total		4,24,41,200	3,53,58,800
EARMARKED FUND / ENDOWMENT FUND :			
Corpus Fee		1,87,000	-
Student Aid Fund		12,000	63,434
Student Welfare Fund		-	-
Employees' Welfare Fund		-	20,000
Corpus Fund		-	-
Total		1,99,000	83,434
SPONSORED PROJECTS:			
Expenditure against Sponsored Projects			
Capital Expenditure			
Equipment		1,80,37,474	1,04,26,608
Computer		-	24,800
Books		-	-
Other Assets		7,02,485	2,23,799
Revenue Expenditure		2,58,58,318	2,10,25,238
Total		4,45,98,277	3,17,00,445
FELLOWSHIP / SCHOLARSHIP :			
Outside Scholarship Payable		18,46,906	17,12,420
Doctoral Fellowship (ICSSR)		-	-
Total		18,46,906	17,12,420
INVESTMENTS & DEPOSITS:			
OUT OF EARMARKED/ENDOWMENT FUNDS:			





PAYMENTS :		Particulars	Current Year	Amount in Rupees Previous Year
		Corpus Fund Investment	-	31,40,77,833
		Depreciation Fund Investment	-	-
		Maintenance Fund Investment	-	-
		Staff-Dev Fund Investment	-	-
		Total	-	31,40,77,833
		OTHER INVESTMENT		
		Investment (Recurring)		58,50,92,900
		Investment (Fee)	-	-
		Total	-	58,50,92,900
		OUT OF OWN FUNDS;		
		Investment- LC Margin Money A/C	-	-
		Total	-	-
		EXPENDITURE ON FIXED ASSETS		
		Software Developments	34,83,170	39,01,554
		E-Journals	3,29,62,393	75,30,339
		E-Books	22,75,680	-
		Patent and Copyright	-	65,000
		E-Books (Perpetual Assets)	58,93,923	-
		Buildings		
		Boys Hostel No.9	-	-
		Renovation of Hostels	37,88,272	67,72,607
		Renovation of Staff qtr.	4,15,906	27,63,078
		Renovation of Inst. Building	72,09,956	1,19,95,239
		Establishment of Science Tech and Innovation hub	29,21,257	-
		Electrical Substation I & II	-	23,066
		Sports field/Volly Ball/tennis/Batminton	-	-
		Campus Development/Beautification	5,81,848	21,17,780
		Waiting Shed/Parking	-	-
		DG Shed	-	-
		New Administrative Building	-	2,40,105
		New Academic Building	-	-
		Non-Faculty 100unit qtr	-	5,29,276
		New Lib. Building	3,74,529	6,98,953



Annual Accounts 2023-24



PAYMENTS :		Particulars	Current Year	Amount in Rupees Previous Year
		Girls Hostel No.3	-	6,50,545
		Garage for Vehicle	-	2,35,259
		Production Engg Lab	-	18,59,203
		Electrical renovation	-	68,33,055
		NABL Lab Building	-	4,08,406
		Roads & Bridges	-	
		Renovation of Internal Road and gate	37,05,989	10,88,849
		Road & Power supply	2,81,767	20,83,346
		Sewarage disposal system	34,23,064	-
		Tube wells and Water supply	-	1,63,168
		Water Supply Distribution network	-	
		Electrical Installation and Equipments	1,30,24,452	84,61,769
		Electrical Equipment		
		Plant, Machinery & Equipments	23,45,129	40,01,696
		Audio Visual Equipments		-
		Electrical Equipments	25,12,642	30,88,105
		L.T.Line & U.G. Cabling	2,08,62,984	2,97,80,406
		Lab Equipments	1,74,73,549	62,68,611
		Furniture including Hostels	-	19,900
		Office Equipments	2,04,43,393	18,93,001
		Computer Peripherals	30,71,434	16,05,509
		Books	2,04,869	2,07,932
		Print Journals	3,29,07,325	50,48,571
		Networking	-	24,980
		Electronics Equipment	-	2,35,410
		Kitchen Equipment	2,42,000	23,600
		Equipments of Health centre	5,06,385	-
		Tools and equipment	18,09,11,916	11,06,18,318
		Total		
		CAPITAL WORK IN PROGRESS:		
		Boys Hostel-9 (WIP)	-	-
		Director Bungalow (WIP)	-	-
		Library Building (WIP)	-	-





PAYMENTS :		Amount in Rupees	
Particulars		Current Year	Previous Year
PROVISIONS : (TAX)	Total	-	-
Income Tax (Against Salary & Contrats)		10,69,55,431	9,53,63,571
GST		70,26,779	25,36,535
GST (Project)		7,86,643	1,69,305
Income Tax (Project)		3,110	87,720
Professional Tax		-	-
Professional Tax (Project)		-	5,168
Labour Cess Payable		-	-
Total		11,47,71,963	9,81,62,299
Refund to Ministry	Total		
Refund from Project Account		7,78,84,227	1,57,40,436
Refund from Institute Account_TSA:		-	-
NON RECURRING GRANT : RECEIVED FROM GOVT OF INDIA: OH-35		1,82,21,112	15,77,77,542
RECURRING GRANT: RECEIVED FROM GOVT OF INDIA OH-36 (SALARIES)		-	12,67,17,227
RECURRING GRANT: RECEIVED FROM GOVT OF INDIA OH-31 (GENERAL)		-	-
Total		9,61,05,339	30,02,35,205
Loans,Advances & Deposits			
Sundry Debtors			
Advance to Employees			
HTC Advance		-	-
LTC Advance		-	40,000
Other Advance To Employees			
Recoverable Advance		3,19,19,568	3,16,74,055
Recoverable Advance (Project)		4,39,600	1,50,000
TA Advance		41,66,500	18,18,000
TA Advance (Project)		2,05,000	1,89,000
Soft Loan (Staff)		2,00,000	2,50,000
Interest Free Loan (Festival Advance)		1,36,000	2,16,000
Advances & Other Receivable on Capital A/c			
Deposit Work			
Advance to Monotosh Bhattacharjee		-	5,91,000
Advance to Pradip Kr Nunia		-	1,58,460



Annual Accounts 2023-24



PAYMENTS :		Amount in Rupees	
Particulars	Current Year	Previous Year	
Advance to Rajarshree Dey	-	5,12,000	
Advance to Rambabu Kurmi	-	-	
Advance to B.K. Construction	-	22,00,000	
Prepaid E journals	13,93,855	1,37,79,882	
Prepaid insurance	20,73,402	82,372	
Advance to Protima Traders and Electrical shop	-	12,19,701	
Advance to S Choudhury and Company	-	8,35,932	
Advance to Sudev Podder	-	5,36,000	
Advance to WAPCOS Ltd for GH 4	2,53,37,281	2,59,64,921	
Advance to PHE AGMN water Supply	-	16,85,678	
Advance to Firm_Debjani Suklabaidya	-	12,87,477	
Advance to Firm_Dhanpat Kurmi	-	1,71,000	
Advance to Subhrajyoti Acharjee	-	1,36,000	
Loan to ACODS	-	3,00,000	
Receivable from DK Baidya	13,467	-	
Total	6,58,84,673	8,37,97,478	
Current Liabilities & Provisions			
Hostel Caution Money	2,10,000	2,81,680	
Institute Caution Money	75,91,000	91,80,320	
Gulanur Hussain Choudhury	-	9,99,658	
Vanguards Security Services & Systems	-	-	
Earnest Money Deposit	33,25,825	6,07,716	
Security Deposit	10,04,080	21,99,191	
Performance Security (project)	1,67,424	-	
GSLI Payable	-	-	
EPF Subscription MR Employees	10,83,181	12,11,785	
EPF Subscription FFW Workers' Society/Housekeeping	-	-	
EPF Subscription Contract Staff	10,89,872	10,84,074	
GPF Advance Recovery	27,43,078	22,22,120	
GPF Subscription Payable (Others)	-	-	
GPF Subscription Payable	1,28,16,364	1,31,52,316	
CPF Subscription Payable	-	1,57,437	
CPF Contribution Payable	-	1,57,437	





PAYMENTS :		Current Year	Amount in Rupees Previous Year
NPS Subscription Payable		3,47,90,382	2,99,35,849
Conference Fund Payable		60,76,134	22,79,354
CSRL-CBT online exam payable		9,000	-
CUET (UG) Exam payable		1,43,840	4,14,728
Academic Development Fee (MBA)		1,55,000	-
EPF Contribution Payable		-	-
Commuted Pension Payable		-	-
Electricity Recovery (Project A/c)		27,436	19,305
Recovery of Licence Fee (Project)		35,840	54,333
MNDCS Conference (Project)		1,50,000	-
DSC Inspired Farhana Yashmin (Project)		8,89,673	-
DSC Inspired Baishali Bhattacharjee (Project)		4,46,844	-
Alumini Association Fee		12,000	-
CCTV Payable		8,52,929	7,01,846
Deposit Remittance		41,072	17,20,346
Deposit Remittance (Project A/c)		-	20,983
Group Insurance Claim		-	-
Gymkhana		24,31,635	47,05,663
Liability Towards DCRG		6,50,000	2,00,000
L.I.C.I Payable		37,09,138	40,79,895
Mediclaime Insurance		26,41,236	26,90,376
Mess Dues		-	38,05,031
Mess Establishment		21,30,104	-
Processing Charges		-	-
Refundable Excess Deposit		4,27,52,348	82,18,149
Salary teach/Admin Payable		-	2,89,34,987
Fees received in advance_prepaid		-	1,00,14,139
Student Mediclaime		3,32,569	6,87,196
Transcript Fee		14,29,200	15,07,000
Pension payable		4,96,614	71,42,738
RPS Project A/c		-	3,82,683
House-keeping Exp Payable		-	-
NPS Contribution Payable		4,87,05,284	4,19,02,405



Annual Accounts 2023-24



PAYMENTS :		Current Year	Amount in Rupees Previous Year
Medical reimbursement payable		-	1,96,045
UGC Net Exam		15,757	24,060
Accods 2022		7,96,624	-
BHM Fees		84,000	-
QIP Grants		-	1,03,211
Children Education Allowance Payable		36,72,000	40,77,000
DASA		-	15,000
Electricity & Power Charges Payable		-	-
Contractual Staff Salary Payable		-	13,33,732
Salary Payable MR staff		-	13,03,038
Security Service Charges Payable		-	-
Stipend to M.Tech/ Ph.D Payable		-	-
Legal & Professional Fees Payable		-	-
Unclassified Receipts		-	5,000
Provision Plan Others		-	-
Provision Non Plan Others		-	-
Verification Fee		1,71,000	1,76,000
CCMT Expenses Payable		2,40,500	3,25,500
Payable to Abhheh Paul		10,000	-
Payable to Ankita Das		16,000	-
Payable to Avishek Printers and Publisher		93,600	-
Payable to Badal Soni		27,689	-
Payable to Chayan Bhushan Deb		3,44,000	-
Payable to Grade III / IV Exam		79,750	-
Payable to PhD Students		1,59,000	-
Payable to Sambhu kurmi		3,500	-
Payable to Wasim Arif		12,611	-
To-STO online exam payable		22,000	-
Payable to Dhrubojyoti Das (Project)		21,774	-
Payable to Manashranjan Singh (Project)		9,032	-
CoMSO-2022		-	-
NEET Examination Payable		-	1,36,750
Receivable from CCMN		-	17,064
		-	12,80,000





PAYMENTS :	Particulars	Current Year	Amount in Rupees	
			Previous Year	
	ATAL FDP Programme Payable	-	8,64,954	
	MIND-2020	-	-	
	Prepaid E-Journals	3,28,68,360	-	
	Prepaid E-Books	-	-	
	West Bengal JEE	-	-	
	GIAN Course fee	-	26,648	
	GIAN Fund	13,90,542	7,96,095	
	SPARC Scheme	-	-	
	Payable to Institute against DST FIST ME (Project)	-	15,49,747	
	DST Inspire payable	34,880	3,90,600	
	Exceeds Payment to Suganya Devi K	-	22,650	
	ICICSA 2022 payable	1,72,062	2,14,616	
	ICWROEE 2024 payable	2,33,679	-	
	INSA fellowship payable	30,000	-	
	JCA exam payable	11,515	-	
	ICPR payable	-	45,000	
	ICRACE 2021	-	52,302	
	JEE Exam payable	-	1,35,785	
	JoSSA CSAB Payable	1,94,595	22,54,658	
	Mottca 2024 Payable	81,388	-	
	MSME Champion payable	3,50,000	17,00,000	
	NTA/CSIR payable	45,000	-	
	Academic writing workshop payable	4,00,000	-	
	MSME ESDP payable	-	6,80,000	
	Payable to Project Account	56,300	-	
	Payable to Institute (DST SERB Project)	-	-	
	Payable to KOP and Associates (Project)	-	9,999	
	Payable to RH Laskar (Project)	-	24,063	
	DST Fist (ME Advance)	-	13,67,162	
	Payable to Abhijit Baruah	-	5,000	
	Payable to Bishal Dhaba	-	4,670	
	Payable to Grade III / IV Exam	-	83,750	
	Payable to Hanney Electricals	-	4,090	



Annual Accounts 2023-24



PAYMENTS :		Particulars	Current Year	Amount in Rupees Previous Year
		Payable to Madan Lal Soni	-	10,000
		Payable to Rambabu Bardhan	-	11,290
		Payable to Saumya Gupta	-	10,000
		SBI Sponsorship Payable	-	82,500
		AICTE STTP payable	-	55,000
		TA/DA payable	-	15,611
		Other Receivable		
		RPS Project Recoverable	-	-
		Receivable CSAB	4,31,588	2,08,08,000
		Receivable CCMT	-	23,45,000
		Receivable From Project A/c	23,66,004	-
		SPARC Receivable	9,94,031	-
		TDS Receivable(IT Non Plan)	17,975	11,289
		Receivable From DST SERB	-	-
		Receivable From DST-FIST Project (ME)	-	-
		Receivable From Institute (Project A/c)	-	180
		IIT GHY Project Adv (Project A/c)	-	-
		IIT Bombay (Project A/c)	50,00,000	-
		Receivable From Institute account (Overhead Project)	48,400	-
		Receivable From Pinak Panl Das	-	-
		Receivable from Balani Infotech Pvt Ltd	-	6,714
		Receivable from Dhanpat Kurmi	-	67,500
		Receivable from Sanjay Srivastava	-	4,000
		Receivable from Sudev Podder	-	7,470
		Receivable from Suhit Chakraborty	90	-
		Total	22,94,44,348	22,33,29,483
		Grand Total	2,08,72,90,813	2,92,16,96,855

Date: The 15th July, 2024

Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
G P Fund and NPS ACCOUNT
BALANCE SHEET AS AT MARCH 31, 2024

LIABILITIES	Current Year	Previous Year	ASSETS	Current Year	Previous Year
CAPITAL FUND (GPF):					
Opening Balance	31,98,25,848	31,45,72,649	INVESTMENT:		
Less: Final Payment	1,44,48,030	85,92,999	Investment with Bank	25,04,07,678	25,00,00,000
Less: Fund towards Pension Fund transferred	64,74,372	1,17,12,592	Interest accrued on FD	9,13,75,335	6,56,38,384
Balance	29,89,03,446	29,42,67,058	CURRENT ASSETS:		
Add: GPF Subscription	1,20,65,764	1,18,76,395	Advance to Subscriber	60,93,549	59,36,627
Add: GPF Subscription (Other Org)	-	-	Receivable from Institute (NPS Sub & Contr)	21,49,172	
Add: Excess payment recovered	-	-	Receivable from Institute against GPF Subs.	-	-
Add: Excess of Income Over Exp	2,69,28,740	1,36,82,395	Receivable from Institute	-	-
Capital Fund	33,78,97,950	31,98,25,848	GPF Advance receivable from Institute	-	-
CURRENT LIABILITIES & PROVISIONS:					
Pension Fund Contribution Payable	-	-			
Total	33,78,97,950	31,98,25,848			
NPS Account:					
Opening Balance	2,02,62,718	1,87,21,546	Cash at Bank (Account no. 10521278164)	1,30,51,771	1,85,13,555
Add: Subscription & Contribution (Received)	8,56,44,838	6,67,47,688			
Add: Subscription & Contribution (Other Org)	-	-			
Less: Paid during the year (NSDL)	8,07,28,001	6,52,06,516			
Total (Payable to NSDL)	2,51,79,555	2,02,62,718			
Grand Total	36,30,77,505	34,00,88,566	Grand Total	36,30,77,505	34,00,88,566

Date: The 15th July, 2024
Place: Silchar



Registrar
कुलसचिव
रा.पी.अ. निलचर-10
REGISTRAR
NIT SILCHAR-10

Director
निदेशक
रा.पी.अ. निलचर-10
DIRECTOR
NIT SILCHAR-10



NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
GP Fund and NPS ACCOUNTS
RECEIPTS AND PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2024

RECEIPTS	Current Year	Previous Year	PAYMENTS	Current Year	Previous Year
Opening Balance: (As on 01.04.2023)					
Cash at Bank	1,85,13,555	13,20,406	ACCUMULATED FUND:		
ACCUMULATED FUND:					
GPF Subscription	1,20,65,764	1,20,84,088	GPF Adv./Withdrawal		
GPF Subscription Received (Other Org)			Advance to Subscriber	29,00,000	3,22,260
GPF Advance Recovery	27,43,078	21,64,932	Pension Fund Contrib. Paid	64,74,372	1,17,12,592
NPS Subscription (Institute)	3,47,90,382	2,78,22,524	Final payment	1,44,48,030	85,92,999
NPS Contribution (Institute)	4,87,05,284	3,89,25,164	GPF Subscription Received (Other Org)	-	2,07,693
GPF Subscription Receivable (2021-22)	-	10,68,228	NPS Subscription (Institute)	3,36,36,614	2,69,50,252
NPS Contribution Receivable (2021-22)	-	35,02,009	NPS Contribution (Institute)	4,70,91,387	3,82,56,264
NPS Subscription Receivable (2021-22)	-	21,13,198			
GPF Advance Receivable (2021-22)	-	2,16,688			
INVESTMENT			INVESTMENT		
Investment Matured			Investment (in SBI Mutual Fund, STDR)	-	-
Accrued Interest Received (Maturity)					
INTEREST					
Interest Received against FD					
Interest on SB A/c	7,84,111	6,49,421	EXPENSES		
Other Receipt	-	2,30,507	Bank Charges	-	-
		1	Pension Fund Contribution Payable last FY	-	26,22,331
			paid during the year.		
CURRENT LIABILITY			Closing Balance:		
Deposit Remittance	-	-	Cash at Bank (Account no. 10521278164)	1,30,51,771	1,85,13,555
Total	11,76,02,174	10,71,77,946	Total	11,76,02,174	10,71,77,946

Date: The 15th July, 2024



[Signature]

Registrar
कुलसचिव
रा.पी.सं. सिलचर-10
REGISTRAR
NIT SILCHAR-10

[Signature]
Director
रा.पी.सं. सिलचर-10
DIRECTOR
NIT SILCHAR-10



NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
GP Fund Account
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED MARCH 31, 2024

EXPENDITURE	(Amount in Rupees)			
	Current Year	Previous Year	INCOME	Current Year
Bank charges	-	-	Interest Received on FD	-
			Interest Accrued on Investment:	6,49,421
Excess of Income over Expenditure	2,69,28,740	1,36,82,395	On STDR	2,09,614
			On SBI Mutual Fund	1,98,864
			Interest received on Savings Account	2,59,35,015
			Other Receipt	7,84,111
				2,30,507
Total	2,69,28,740	1,36,82,395	Total	2,69,28,740
				1,36,82,395

Date: The 15th July, 2024
Place: Silchar



[Signature]

[Signature]
Registrar
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NIT SILCHAR-10

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Director
सिंचार
रा.प्रौ.तं. सिलचर-10
DIRECTOR
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NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
GP Fund and NPS ACCOUNTS

RECEIPTS AND PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2024

RECEIPTS		Current Year	Previous Year	PAYMENTS	Current Year	Previous Year
Opening Balance: (As on 01.04.2023)						
Cash at Bank		1,85,13,555	13,20,406			
ACCUMULATED FUND:				ACCUMULATED FUND:		
GPF Subscription		1,20,65,764	1,20,84,088	GPF Adv./Withdrawal		
GPF Subscription Received (Other Org)				Advance to Subscriber	29,00,000	3,22,260
GPF Advance Recovery		27,43,078	21,64,932	Pension Fund Contrib. Paid	64,74,372	1,17,12,592
NPS Subscription (Institute)		3,47,90,382	2,78,22,524	Final payment	1,44,48,030	85,92,999
NPS Contribution (Institute)		4,87,05,284	3,89,25,164	GPF Subscription Received (Other Org)	-	2,07,693
GPF Subscription Receivable (2021-22)		-	10,68,228	NPS Subscription (Institute)	3,36,36,614	2,69,50,252
NPS Contribution Receivable (2021-22)		-	35,02,009	NPS Contribution (Institute)	4,70,91,387	3,82,56,264
NPS Subscription Receivable (2021-22)		-	21,13,198			
GPF Advance Receivable (2021-22)		-	2,16,688			
INVESTMENT				INVESTMENT		
Investment Matured		-	1,60,21,222	Investment (in SBI Mutual Fund _ STDR)	-	-
Accrued Interest Received (Maturity)		-	10,59,558			
INTEREST				EXPENSES		
Interest Received against FD		-	6,49,421	Bank Charges	-	-
Interest on SB A/c		7,84,111	2,30,507	Pension Fund Contribution Payable last FY	-	26,22,331
Other Receipt		-	1	paid during the year.		
CURRENT LIABILITY				Closing Balance:		
Deposit Remittance		-	-	Cash at Bank (Account no. 16521278164)	1,30,51,771	1,85,13,555
Total		11,76,02,174	10,71,77,946	Total	11,76,02,174	10,71,77,946

Date: The 15th July, 2024

Place: Silchar



[Signature]
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प्राचार्य
रा.प्रौ.स. सिलचर-10
DIRECTOR
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NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
GENERAL PROVIDENT FUND and NPS ACCOUNTS
Schedule of Investment & Interest accrued of G P Fund upto 31.03.2024

(Amount in Rupees)												
Sl	Name of Bank	Fixed Deposit /Mutual Fund Account No	Dated	Face Value as on 31.03.2023	Addition during 2023-24	Matured/ Encashed during 2023-24	Face Value as on 31.03.2024	Accrued Intt. Earned upto 31.03.2023	Accrued Intt. earned during 2023-24	Accrued Intt. received during 2023-24	Intt Received during 2023-24	Accrued Interests Upto 31.03.2024
1	SBI NIT Sil	40888185662	31.03.2022	37,50,000	41,57,678	37,50,000	41,57,678	1,98,864	800	1,98,864	2,08,814	800
2	- do -	Mutual Fund	02.4.2019	16,00,00,000	-	-	16,00,00,000	4,87,08,228	1,75,58,633	-	-	6,62,66,861
3	- do -	Mutual Fund	27.1.2020	7,50,00,000	-	-	7,50,00,000	1,62,21,686	75,38,197	-	-	2,37,59,883
4	- do -	Mutual Fund	31.03.2022	1,12,50,000	-	-	1,12,50,000	5,09,606	8,38,185	-	-	13,47,791
Total Rs.				25,00,00,000	41,57,678	37,50,000	25,04,07,678	6,56,38,384	2,59,35,815	1,98,864	2,08,814	9,13,75,335

Not SI (1) was autorenewed during the year, thereby, necessary disclosure shown on the table.

Date: The 15th July, 2024
Place: Silchar





NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM

CONSULTANCY ACCOUNT

BALANCE SHEET FOR THE YEAR ENDED 31ST MARCH 2024

Liabilities	Current Year	Previous Year	Assets	Current Year	Previous Year
Consultancy Fund:			Current Assets:		
Consultancy A/c	77,80,525	-	Loans & Advances (Asset)	2,90,000	-
(Balance as on 01.04.2023)	1,20,05,373	-	Bank Account (No.10521277046)	2,30,41,913	-
Other Liabilities					
Unclassified	15,45,072	-			
Current Liabilities					
Duties & Taxes					
GST 18%	20,00,943	-			
Total-	2,33,31,913	-	Total-	2,33,31,913	-

Date: The 15th July, 2024
Place: Silchar



[Signature]

[Signature]

Registrar
कुलसचिव
रा.प्रौ.त. सिलचर-10
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Director
प्रिन्सिपल
रा.प्रौ.त. सिलचर-10
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NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR : ASSAM
CONSULTANCY ACCOUNT
RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31ST MARCH 2024

(Amount in Rupees)

RECEIPTS	Current Year	Previous Year	PAYMENTS	Current Year	Previous Year
Opening Balance: (As on 01.04.2023)			Loans (Liability)		
Bank Account	1,93,45,411		Field Expenditure	59,550	
Loan (Liability)			Staff Welfare Fund	37,042	
Consultancy Fund	1,24,19,807		Consultancy Fund	1,13,66,559	
Field Expenditure	59,550		Institute Overhead	41,51,807	
Staff Welfare Fund	37,042		Current Liabilities		
Institute Overhead	41,51,807		Duties & Taxes		
Unclassified	15,45,072		GST 18%	16,11,110	
Current Liabilities			Income Tax	11,13,302	
Duties & Taxes			Current Assets		
GST 18%	29,99,292		Loans & Advances (Asset)		
Income Tax	11,13,302		Rec Adv-Ashim Kanti Dey	1,70,000	
			Rec Adv-Kulkarni Vihangraj	1,00,000	
			Rec Adv-Arjun Sil	20,000	
			Closing Balance		
			Bank Account (No.10521277046)	2,30,41,913	
Total	4,16,71,283	-	Total	4,16,71,283	-



Date: The 15th July, 2024
Place: Silchar

(Signature)

(Signature)
Registrar

(Signature)
Director

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