



ANNUAL REPORT

2024-25



**NORTH EASTERN REGIONAL INSTITUTE OF SCIENCE &
TECHNOLOGY**

(DEEMED TO BE UNIVERSITY, U/S 3 OF THE UGC ACT, 1956

UNDER THE MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

NIRJULI :: ITANAGAR :: ARUNACHAL PRADESH :: 791 109



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SECTION – 1

DIRECTOR'S SUMMARY

It is a privilege to write a foreword to the 38th Annual Report 2024-25 of NERIST, Nirjuli, Arunachal Pradesh, which gives a glimpse of various activities of this Institute during the last year. In this period, we have worked together to develop and improve the infrastructure and strived hard to give a responsive and transparent administration.

In this endeavour, the Institute shall always remain indebted to the President of the Society for NERIST, Lt Gen Kaiwalya Trivikram Parnaik, PVSM, UYSM, YSM (Retd), the Hon'ble Governor of Arunachal Pradesh, for his guidance and support during the period of 2023-24. The Institute is also indebted to Prof. M.S.M. Rawat, Chairman of the Board of Management, NERIST and all the members who have been a constant source of inspiration and guidance. In this connection, the Institute would like to thank the Joint Secretary (CFTIs), Technical Bureau, IFD, Director (Technical) and other officers of the Ministry of Education for their support and cooperation.

During the period of the year 2024-25, several academic initiatives and infrastructure development activities have been taken up with support from all stakeholders. There is no room for complacency, and the Institute shall work even harder to achieve a higher goal and try to meet targets for more than what has been envisaged.

The Institute has a qualified, motivated, and relatively young faculty and a devoted group of non-teaching employees. NERIST students are disciplined, motivated, and sincere and have successfully competed with students from some of the best institutions of the country in different competitive examinations in their respective fields. They have also earned laurels for themselves and for the Institute in India and abroad. The Institute has successfully carried out many sponsored research projects from reputed external funding agencies. The institute has successfully undertaken teaching and research activities since its inception.

The placement record of the Institute has been satisfactory, but more needs to be done. The present team of the Training & Placement Cell has been doing their best to invite Govt./Semi Govt./Public and Private Enterprises to the Institute to conduct placement interviews for our students.

As per the Official Language Policy of the Government of India, the Official Languages Committee in the Institute conducts quarterly meetings to discuss and decide on policy matters and to take the required actions accordingly. This includes achieving targets of the Annual Program for transacting the official work of the Union in Hindi, organising Hindi Diwas/Week/Pakhwada, monitoring the internal progress of the Institute regarding Hindi usage, submitting the quarterly progress report and half-yearly Hindi language and typing training report.

To accelerate the efforts to achieve universal sanitation coverage, our Institute aligns with the Swachh Bharat Mission by organising various events on awareness programs, cleanliness, and plantation drives.

As part of the flagship program of the Ministry of Education, through the Unnat Bharat Abhiyan (UBA) initiative, our organisation has been actively involved in various rural development projects, steadfastly working towards the enhancement of sustainable livelihoods. This effort plays an integral role in nurturing the overall growth and prosperity of rural communities through this outreach program. Also, being part of the Viksit Bharat @2047 campaign, NERIST organised various debate competitions, seminars on thematic areas like mental health, eco-tourism, bio-resources, etc. NERIST is also promoting human values through a dedicated Universal Human Values (UHV) team. Many activities have been conducted under the umbrella of NSS, NCC, MUN, Think India, and the Gymkhana Office. The Institute successfully conducted cleanliness drives, the Swachhata Pakhwada, on the campus and its adjacent areas under the themes "Swachhata Hi Seva" and "Special Campaign 4.0" with the active involvement of the NSS and NCC cell. The Gymkhana, a student centre, organised the three major annual events: the RACAF- the cultural event, SYNERGY- the sports events, the SHRISTI- the techno fest and the 'International Yoga Day' with the active participation of all students. To promote the Indian culture among the youths, the NERIST SPIC MACAY Heritage club organised a cultural event "*Musical Night*" on the campus.

Director



SECTION – 2

INTRODUCTION

2.1 The Institute

Perched in the untrammelled beauty of the “land of the rising sun”, the North Eastern Regional Institute of Science and Technology (NERIST) was set up by the Government of India, initially as a pilot project of the North Eastern Council, Shillong under the Ministry of Home Affairs, Govt. of India to create a base of technical manpower, aimed at meeting the challenges at various level of development in the region. The campus of the Institute is located at Nirjuli, Itanagar, the capital city of Arunachal Pradesh, and is well connected to the rest of the country by road, air, and rail.

The Institute came under the direct control of the Ministry of Education (MoE), Government of India, from 1st April, 1994. It has been conferred with the “Deemed to be University” status u/s 3 of the UGC Act 1956 since May 31st, 2005.

The Institute follows a modular pattern of education, having a multiple-entry and exit system and is producing skilled manpower at different levels, i.e., Certificate, Diploma and Degree, through its innovative educational program. The system of education adopted at NERIST is aimed to bridge the technological gap of the eight north eastern states that comprise of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, and Tripura and rest of the country. This will accelerate the pace of socio-economic development in this region.

The Institute has demonstrated the successful implementation of a modular pattern of education. This has been able to create skilled manpower in Certificate courses, Diploma courses and Degree courses that are being offered by the different Departments, namely, Agricultural Engineering, Civil Engineering, Computer Science and Engineering, Electrical Engineering, Electronics & Communication Engineering, Mechanical Engineering and Forestry. Departments of Chemistry, Physics, Mathematics and Humanities & Social Sciences also have a pivotal role as supporting Departments. Although the Institute admits students at a tender age (after Class X) with heterogeneous academic standards, its academic and administrative setup has been quite effective in ensuring appreciable academic growth among students, including the development of diverse personality traits.

The Post-Graduate academic programmes were started in 1996-97 in two subjects, viz., Information Technology and Environmental Science & Engineering, with due approval of AICTE and MoE. After acquiring ‘Deemed to be University’ status, PhD programmes (part-time and full-time) in all Engineering, Science, Humanities and Social Sciences, and Management departments were started. Since July 2006, the MBA program has also been offered. NERIST is the first institute in Arunachal Pradesh to offer M. Tech. and MBA programmes.

Vision of the Institute

To produce professionals with competency for pursuing excellence in science & technology education, research, and entrepreneurship with ethical values and social sensitivity for offering specialized services to the society meeting the global requirements and standards in a multicultural environment.

Mission of the Institute

1. To create a niche in the field of science & technology education and research through an innovative modular system.
2. To produce globally competitive technical and scientific manpower in different disciplines with high ethical values and with particular reference to the North Eastern Region.
3. To impart to engineers/technologists and trainees a mindset full of creativity to pursue excellence with a focus on stakeholders, accountability, environment, and people.
4. To develop collaborations with world-class R&D organisations, industries, and educational institutions in India and abroad for attaining excellence in teaching, research and consultancy practices.



2.2 Administrative set-up

The Institute is registered as a Society under the Societies Registration Act of 1860. At present, the Hon'ble Governor of Arunachal Pradesh is the ex officio President of NERIST Society and Prof. M.S.M. Rawat, Former Vice Chancellor, HNB Garhwal Central University, Dehradun, is the present Chairman, Board of Management (BoM) of the Institute.

2.3 Salient Features

- Modular Technical Education System;
- Multi-point entry and exit system;
- Unconventional and innovative academic programme to create technical manpower at various levels for the development of the NE Region.
- Development of knowledge, skills and a value-based education system;
- Highly qualified faculty and dedicated staff;
- P.G. and PhD programmes;
- Well-equipped laboratories and workshops;
- Fully residential campus;
- Dedicated service for the development of the NE Region.



SECTION – 3

ACADEMIC PROGRAMMES

3.1 A Brief Profile of the Section

The Academic Section is the backbone of any Academic Institute/University. The present Academic Branch is divided into three Cells, viz., Undergraduate, Postgraduate and PhD, for better functioning. The Undergraduate Cell deals with the admission process, scholarships/other academic affairs of Certificate, Diploma, B.Tech., & other Degree Modules. The Postgraduate Cell deals with admission and other related affairs of M. Tech., MBA, M.Sc., including scholarships of UG & PG students. The PhD Cell deals with all activities such as admission of PhD scholars, conducting DPGC, BPGS, and other works related to PhD scholars, including scholarships of PhD students. Matters relating to Convocation, Academic Council Meeting, RTI, Correspondences with AICTE, UGC, etc. and other miscellaneous academic matters are also dealt with by the Academic Section. Besides, the Academic Section also deals with all other matters related to academic affairs of the Institute with MoE/UGC/AICTE/AISHE and other miscellaneous academic matters. The branch is headed by the Assistant Registrar (Academic). As of July-December, Semester 2024-25, the number of UG students is 1944, the number of PG students is 379, and the number of PhD scholars is 218. The total student strength was 2541.

All B.Tech. programmes of the Institute have been provisionally accredited by the NBA.

All the Undergraduate and Post-graduate Programmes in Engineering & Technology and MBA Courses are approved by the AICTE.

The Department of Forestry has been accredited by the Indian Council of Forestry Research & Education (ICFRE), Dehradun, with an A+ grade in February 2025 for a period of five years.

3.2 Status Report regarding activities

The UG curriculum at NERIST comprises three independent modules in Engineering and Technology Streams and one independent module in Forestry. These are as follows:

(a) Engineering & Technology Stream

1. Certificate Module
2. Diploma Module
3. Degree Module

(b) Forestry Stream

1. Degree Module

Duration of a Module: Under normal circumstances, a student is expected to complete the requirements of a module in two academic years for the Base/Certificate module and in three academic years for the Diploma Module. It is four years for the vertical entrants after the Base Module and three years after the Diploma in the Degree Module of Technology. The period is four years for the Degree Module in Forestry after 10+2 with PCB.

From 2020-21 onwards, the Institute admitted students for the B. Tech program through JEE under JoSAA. In pursuance of the resolution under Agenda Item No. 92.11.1 of the minutes of the 92nd meeting of Board of Management (BoM) of the NERIST, the Institute would participate in the JoSAA for allocation of 88 seats for B.Tech as per the norms of this Institute from 2020-21 session onwards and Institute shall offer 4 (Four) Years Degree programme, Further, the vertical mobility from Certificate Module to 4 (Four) years degree module the minimum CGPA to be obtained by a candidate is 6.5 out of 10.00 within the specified duration of the course. The candidate, who fails to obtain a CGPA of 6.5 out of 10.00 in the Base/Certificate Module, will be considered for the 3-year Diploma Module (2-year Base Module + 1 year) program. Thus, w.e.f. In the academic session 2020-21, the Institute will have 2-year Base (Certificate) programs, 3-year (2+1) Diploma Programs and 4-year B.Tech. Programs (admitted after Class 10+2/NERIST Base Module Course) as approved by the Academic Council and the BoM of NERIST.



Scholarship/Fellowships

Various scholarships, viz., namely, all the centrally sponsored scholarship schemes, Post Matric Umbrella Scheme for ST students, Ishan Uday Scholarship, Pragati Scholarships, and Saksham Scholarship Scheme by AICTE and various other scholarships through National Scholarship Portal, Stipends from the respective State Governments, etc., are provided to the eligible students.

The GATE-qualified candidates admitted to the AICTE-approved programmes are eligible for the AICTE-PG Scholarship (GATE). The PhD Research Scholars are also provided fellowships as per the norms of the Government and the Institute. Number of PhD scholars are availing fellowship under NFST from Ministry of Tribal Affairs, Govt of India, CSIR-JRF, NET-JRF, Visvesvaraya Fellowship Scheme by Deity, GoI, National Fellowship for OBC students, Inspire Fellowship from DST, GoI, AICTE Doctoral Fellowship, etc.

However, irrespective of the source of scholarship/stipend, a student must attend at least 75% of classes in each course in which s/he has registered, failing which the scholarship/stipend may be terminated.

3.3 Courses offered for the Undergraduate Programme

During 2024-25, the Institute offered the following courses in each module:

Base/Certificate Module

- a) Agricultural Engineering
- b) Construction Technology
- c) Electrical Engineering
- d) Electronics Engineering
- e) Mechanical Engineering

B. Tech. / Diploma Module (E&T Stream)

- a) Agricultural Engineering
- b) Civil Engineering
- c) Computer Science and Engineering
- d) Electrical Engineering
- e) Electronics & Communication Engineering
- f) Mechanical Engineering

Degree Module (E&T Stream)

- a) Agricultural Engineering
- b) Civil Engineering
- c) Computer Science and Engineering
- d) Electrical Engineering
- e) Electronics & Communication Engineering
- f) Mechanical Engineering

Degree Module (4-year Programme in Forestry)

3.4 Courses Offered in Post Graduate Programme:

The Institute started its Post Graduate Courses, and the following Programmes were running during 2024-25.

M.Tech. (Full Time)

- a) M.Tech. in Information Technology under the Department of Computer Science & Engineering.
- b) M.Tech. in Computer Science & Engineering under the Department of Computer Science & Engineering.
- c) M.Tech. in Environmental Science & Engineering under the Department of Civil Engineering.



- d) M.Tech. in Geotechnical Engineering under the Department of Civil Engineering.
- e) M.Tech. in Power System Engineering under the Department of Electrical Engineering.
- f) M.Tech. in Computer Integrated Manufacturing under the Department of Mechanical Engineering.
- g) M.Tech. in Thermal and Fluid Engineering under the Department of Mechanical Engineering.
- h) M.Tech. in Electronics & Communication Engineering (Specialisation in VLSI/Communication Engineering).
- i) M.Tech. in Farm Machinery & Power under the Department of Agricultural Engineering.
- j) M.Tech. in Soil and Water Conservation Engineering under the Department of Agricultural Engineering.

M.Sc.

- a) M.Sc. in Forestry under the Department of Forestry
- b) M.Sc. in Physics under the Department of Physics
- c) M.Sc. in Chemistry under the Department of Chemistry
- d) M.Sc. in Mathematics under the Department of Mathematics

MBA

Master of Business Administration under the Centre for Management Studies.

PhD (Full Time) & PhD (Part Time)

Engineering streams

- Agricultural Engineering
- Civil Engineering
- Computer Science & Engineering
- Electrical Engineering
- Electronics & Communication Engineering
- Mechanical Engineering

Science, Humanities and Management streams

- Forestry
- Physics
- Chemistry
- Mathematics
- Humanities and Social Sciences
- Management Studies

3.5 Any other relevant information/data

The number of Students enrolled in the July-December Semester, for the session 2024-25, is summarised and furnished in the following tables.

(a) Undergraduate Programmes

Table 1: No. of Students enrolled in Certificate Course (Module-wise)

Discipline	1 st Year	2 nd Year
Agricultural Engineering (AE)	35	52
Civil Engineering (CE)	45	47
Electrical Engineering (EE)	45	42
Electronics & Communication Engineering (ECE)	44	44
Mechanical Engineering (ME)	43	52
Total	212	237

**Table 2: No. of Students enrolled in 4 4-year B. Tech. Course(Module-wise)**

Discipline	1 st Year	2 nd Year	3 rd Year	4 th Year
Agricultural Engineering	35	57	47	45
Civil Engineering	56	73	72	70
Computer Science & Engineering	50	56	54	56
Electrical Engineering	62	72	62	66
Electronics & Communication Engineering	51	62	53	55
Mechanical Engineering	45	67	61	71
Total	299	387	349	363

Table No.3: No. of Students enrolled in Degree (Forestry)

Year	No. of students
First	25
Second	29
Third	20
Fourth	23
Total	97

Table 4: Gender-wise Details of Students (Certificate Module)

Discipline	1 st Year		2 nd Year		Total		Total
	Male	Female	Male	Female	Male	Female	
Agricultural Engineering	21	14	33	19	54	33	87
Civil Engineering	29	16	36	11	65	27	92
Electrical Engineering	34	11	26	16	60	27	87
Electronics & Communication Engineering	31	13	32	12	63	25	88
Mechanical Engineering	28	15	41	11	69	26	95
Total	143	69	168	69	311	138	449

Table 5: Gender-wise Details of Students (B.Tech.) [Vertical & Lateral]

Discipline	1 st Yr		2 nd Yr		3 rd Yr		4 th Yr		Total		Total
	M	F	M	F	M	F	M	F	M	F	
Agricultural Engineering	23	12	37	20	25	22	26	19	111	73	184
Civil Engineering	41	15	51	22	52	20	52	18	196	75	271
Computer Science & Engg.	40	10	35	21	44	10	39	17	158	58	216
Electrical Engineering	36	26	53	19	40	22	42	24	171	91	262
Electronics & Communication Engineering	38	13	40	22	39	14	32	23	149	72	221
Mechanical Engineering	39	6	55	12	51	10	63	8	208	36	244
Total	217	82	271	116	251	98	254	109	993	405	1398

Table 6: Gender-wise Details of Students in Forestry (Degree Module)

Discipline	1 st Year		2 nd Year		3 rd Year		4 th Year		Total		Total
	Male	Female	Male	Female	Male	Female	Male	Female	M	F	
FO	9	16	10	19	7	13	10	13	36	61	97



Table 7: Category-wise Details of Students (Certificate Module)

Discipline	GE		OBC		SC		ST		EWS		Total		Total
	1 yr.	2 yr.	1 yr.	2 yr.	1 yr.	2 yr.	1 yr.	2 yr.	1 yr.	2 yr.	1 yr.	2 yr.	
AE	1	2	7	8	2	1	23	39	2	2	35	52	87
CE	3	5	7	10	3	2	27	28	5	2	45	47	92
EE	4	5	6	8	3	2	25	24	7	3	45	42	87
ECE	10	11	9	8	6	8	15	14	4	3	44	44	88
ME	6	4	15	18	6	4	13	22	3	4	43	52	95
Total	24	27	44	52	20	17	103	127	21	14	212	237	449

Table 8: Category-wise Details of Students (B.Tech. 1st & 2nd Year)

Discipline	GE		OBC		SC		ST		EWS		Total		Total
	1 yr.	2 yr.	1 yr.	2 yr.	1 yr.	2 yr.	1 yr.	2 yr.	1 yr.	2 yr.	1 yr.	2 yr.	
AE	1	3	3	12	1	5	28	35	2	2	35	57	92
CE	1	6	15	10	-	6	36	44	4	7	56	73	129
CSE	8	14	13	14	3	-	21	20	5	8	50	56	106
EE	7	15	11	12	3	4	35	35	6	6	62	72	134
ECE	8	15	12	19	10	6	17	16	4	6	51	62	113
ME	6	12	9	20	8	6	17	25	5	4	45	67	112
Total	31	65	63	87	24	16	154	175	26	33	299	387	686

Table 9: Category-wise Details of Students (B.Tech. 3rd & 4th Year)

Discipline	GE		OBC		SC		ST		EWS		Total		Total
	3 yr	4 yr	3 yr	4 yr	3 yr	4 yr	3 yr	4 yr	3 yr	4 yr	3 yr	4 yr	
AE	2	1	9	10	3	6	28	26	5	2	47	45	92
CE	6	7	13	14	5	2	39	44	9	3	72	70	142
CSE	9	10	15	7	5	2	19	27	6	10	54	56	110
EE	10	10	12	11	2	2	31	36	7	7	62	66	128
ECE	12	12	15	21	6	6	16	10	4	6	53	55	108
ME	10	14	13	20	6	7	28	24	4	6	61	71	132
Total	49	54	77	83	27	25	161	167	35	34	349	363	712

Table 10: Category-wise Details of Students in Forestry (Degree Module)

Discipline	7Year	GE	OBC	SC	ST	EWS	Total
FO	First	1	2	2	17	3	25
	Second	1	5	1	19	3	29
	Third	2	4	1	12	1	20
	Fourth	3	-	3	14	3	23
Total		7	11	7	62	10	97

Table 11: State-wise Details of Students (First Year Certificate Module)

Discipline	AI	AL	AM	MG	MN	MZ	NL	SK	TR	TOTAL
AE	1	13	8	4	5	-	4	-	-	35
CE	5	10	8	4	5	-	4	-	5	41
EE	7	10	8	4	4	-	4	-	5	42
ECE	8	6	9	4	5	-	3	-	9	44
ME	6	3	16	4	5	-	4	-	5	43
Total	27	42	49	20	24	-	19	-	24	205

**Table 12: State-wise Details of Students (Second Year Certificate Module)**

Discipline	AI	AL	AM	MG	MN	MZ	NL	SK	TR	TOTAL
AE	3	20	9	7	4	1	5	-	3	52
CE	6	12	7	4	5	4	4	-	5	47
EE	5	15	8	3	4	0	3	-	4	42
ECE	7	8	9	3	5	1	3	-	8	44
ME	5	7	14	6	5	1	6	-	8	52
Total	26	62	47	23	23	7	21	0	28	237

Table 13: State-wise Details of Students (B.Tech. First & Second Year)

Disp.	AI		AL		AM		MG		MN		MZ		NL		SK		TR		TOTAL
	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	
AE	3	4	14	17	4	12	3	3	2	9	1	1	6	6	0	0	2	5	92
CE	2	5	17	15	11	16	7	4	5	8	6	6	6	9	0	2	2	8	129
CSE	10	8	6	5	6	15	5	5	6	8	4	3	5	6	2	2	6	4	106
EE	5	5	15	21	14	17	4	7	8	9	2	3	7	5	0	0	7	5	134
ECE	11	9	4	4	8	23	5	5	6	8	1	0	6	4	1	1	9	8	113
ME	7	5	4	7	14	28	4	6	4	8	1	0	6	7	0	1	5	5	112
Total	38	36	60	69	57	111	28	30	31	50	15	13	36	37	3	6	31	35	686

Table 14: State-wise Details of Students (B.Tech. Third & Fourth Year)

Disp.	AI		AL		AM		MG		MN		MZ		NL		SK		TR		TOTAL
	3 rd	4 th	3 rd	4 th	3 rd	4 th	3 rd	4 th	3 rd	4 th	3 rd	4 th	3 rd	4 th	3 rd	4 th	3 rd	4 th	
AE	6	6	12	10	12	10	6	3	4	4	1	-	4	11	0	0	2	1	92
CE	9	6	18	21	12	8	4	8	5	7	9	6	6	8	2	1	7	5	142
CSE	13	14	4	7	12	8	3	6	9	5	1	3	4	7	0	1	8	5	110
EE	7	9	15	13	11	15	6	4	4	5	1	3	8	10	1	1	9	6	128
ECE	7	11	5	6	16	14	6	5	4	11	1	0	4	3	1	0	9	5	108
ME	5	10	6	9	24	23	8	6	5	8	2	0	5	5	0	2	6	8	132
Total	47	56	60	66	87	78	33	32	31	40	15	12	31	44	4	5	41	30	712

Table 15: State-wise Details of Students (Forestry)

Discipline	Year	AI	AL	AM	MG	MN	MZ	NL	SK	TR	TOTAL
FO	First	1	5	4	4	1	3	4	-	3	25
	Second	2	8	8	2	3	1	3	-	2	29
	Third	4	5	2	2	3	-	3	-	1	20
	Fourth	2	6	3	3	2	1	2	-	4	23
Total		9	24	17	11	9	5	12	-	10	97

(b) Post-Graduate Programmes**Table 16: No. of Students enrolled in M.Tech. (Full Time)**

Dept.	Name of the Programme	No. of students admitted				Total		Total
		1 st Year		2 nd Year		Male	Female	
		Male	Female	Male	Female			
AE	Soil & Water Conservation Engineering	7	4	2	1	9	5	14
	Farm Machinery & Power	5	3	1	0	6	3	9
CE	Environmental Science & Engineering	19	2	11	1	30	3	33
	Geotechnical Engineering	14	6	11	2	25	8	33
CSE	Computer Science & Engineering	7	4	4	6	11	10	21
	Information Technology	3	0	0	2	3	2	5
EE	Power System Engineering	13	4	8	3	21	7	28
ECE	Electronics & Comm. Engineering	7	9	1	3	8	12	20
ME	Computer Integrated Manufacturing	5	3	2	0	7	3	10
	Thermal and Fluid Engineering	6	2	1	2	7	4	11
	Total	86	37	41	20	127	57	184

**Table 17: Category-wise No. of Students enrolled in M.Tech. (Full Time) 1st Year**

Sl. No.	Dept	Name of the Programme	GE	SC	OBC	ST	EWS	Total
1.	AE	Soil & Water Conservation Engineering	0	0	0	11	0	11
		Farm Machinery & Power	4	1	1	2	0	8
2.	CE	Environmental Science & Engineering	1	0	2	18	0	21
		Geotechnical Engineering	0	0	1	19	0	20
3.	CSE	Computer Science & Engineering	1	0	2	8	0	11
		Information Technology	0	0	0	3	0	3
4.	EE	Power System Engineering	3	1	1	12	0	17
5.	ECE	Electronics & Comm. Engineering	0	0	2	14	0	16
6.	ME	Computer Integrated Manufacturing	4	1	0	3	0	8
		Thermal and Fluid Engineering	2	1	0	5	0	8
Total			15	4	9	96	0	123

Table 18: Category-wise No. of Students enrolled in M.Tech. (Full Time) 2nd Year

Sl. No.	Dept	Name of the Programme	GE	SC	OBC	ST	EWS	Total
1.	AE	Soil & Water Conservation Engineering	-	-	-	3	-	3
		Farm Machinery & Power	-	-	-	1	-	1
2.	CE	Environmental Science & Engineering	-	-	2	8	2	12
		Geotechnical Engineering	-	1	-	11	1	13
3.	CSE	Computer Science & Engineering	2	-	3	5	-	10
		Information Technology	-	-	-	2	-	2
4.	EE	Power System Engineering	3	-	1	7	-	11
5.	ECE	Electronics & Comm. Engineering	1	-	1	2	-	4
6.	ME	Computer Integrated Manufacturing	-	-	2	-	-	2
		Thermal and Fluid Engineering	1	-	-	2	-	3
Total			7	1	9	41	3	61

Table 19: No. of Students enrolled in M.Sc.

Sl. No.	Dept.	Name of the Programme	No. of students admitted				Total		Total
			1 st Year		2 nd Year		Male	Female	
			Male	Female	Male	Female			
1.	PH	M.Sc. in Physics	14	7	9	3	23	10	33
2.	CH	M.Sc. in Chemistry	9	11	8	7	17	18	35
3.	MA	M.Sc. in Mathematics	13	8	7	6	20	14	34
4.	FO	M.Sc. in Forestry	10	10	7	8	17	18	35
Total			46	36	31	24	77	60	137

Table 20: Category-wise No. of Students enrolled in M.Sc. 1st Year

Sl. No.	Dept.	Name of the Programme	GE	SC	OBC	ST	EWS	Total
1.	Physics	M.Sc. in Physics	-	-	6	14	1	21
2.	Chemistry	M.Sc. in Chemistry	2	-	6	11	1	20
3.	Mathematics	M.Sc. in Mathematics	5	-	2	13	1	21
4.	Forestry	M.Sc. in Forestry	1	-	-	19	-	20
Total			8	-	14	57	3	82

**Table 21: Category-wise No. of Students enrolled in M.Sc. 2nd Year**

Sl. No.	Dept.	Name of the Programme	GE	SC	OBC	ST	EWS	Total
1.	Physics	M.Sc. in Physics	2	1	1	6	2	12
2.	Chemistry	M.Sc. in Chemistry	1	-	5	8	1	15
3.	Mathematics	M.Sc. in Mathematics	0	-	2	9	2	13
4.	Forestry	M.Sc. in Forestry	1	-	7	7	-	15
Total			4	1	15	30	5	55

Table 22: No. of Students enrolled in MBA

Sl. No.	Centre	Name of the Programme	No. of students admitted				Total		Total
			1 st Year		2 nd Year		Male	Female	
			Male	Female	Male	Female			
1.	CMS	Management Studies	18	18	10	12	28	30	58

Table 23: Category-wise No. of Students enrolled in MBA 1st Year

Sl. No.	Centre	Name of the Programme	GE	SC	OBC	ST	EWS	Total
1.	Management Studies	MBA	4	1	8	21	2	36

Table 24: Category-wise No. of Students enrolled in MBA 2nd Year

Sl. No.	Centre	Name of the Programme	GE	SC	OBC	ST	EWS	Total
1.	Management Studies	MBA	4	2	5	11	-	22

Table 25: No. of Students enrolled in PhD (Part Time & Full Time)

Engineering Disciplines (A)								
Sl. No.	Name of the Dept.	No. of Students admitted				Total		All Total
		Part Time		Full Time		Male	Female	
		Male	Female	Male	Female			
1.	Agricultural Engineering	1	2	10	6	11	8	19
2.	Civil Engineering	7	4	22	10	29	14	43
3.	Computer Science and Engineering	5	1	2	4	7	5	12
4.	Electrical Engineering	1	1	5	3	6	4	10
5.	Electronics and Communication Engineering	10	-	1	1	11	1	12
6.	Mechanical Engineering	6	-	7	1	13	1	14
Total (A)		30	8	47	25	77	33	110

Science, Humanities and Management Studies Disciplines (B)

Sl. No.	Name of the Dept.	No. of Students admitted				Total		Total
		Part Time		Full Time		Male	Female	
		Male	Female	Male	Female			
1.	Physics	-	-	4	2	4	2	6
2.	Chemistry	2	1	7	5	9	6	15
3.	Mathematics	5	1	7	3	12	4	16
4.	Forestry	9	8	14	21	23	29	52
5.	Humanities & Social Sciences	-	1	-	2	-	3	3
6.	Management Studies	6	3	6	1	12	4	16
Total (B)		22	14	38	34	60	48	108

Total (A) + (B)	Male	Female	Total
		137	81

**Table 26: Category-wise No. of Students enrolled in PhD (Part Time & Full Time)**

Engineering Disciplines (A)						
Sl. No.	Name of the Dept.	GE	SC	OBC	ST	Total
1.	Agricultural Engineering	6	1	4	8	19
2.	Civil Engineering	8	2	8	25	43
3.	Computer Science and Engineering	4	1	2	5	12
4.	Electrical Engineering	1	1	2	6	10
5.	Electronics and Communication Engineering	3	3	4	2	12
6.	Mechanical Engineering	3	2	4	5	14
Total (A)		25	10	24	51	110
Science, Humanities & Management Studies Disciplines (B)						
Sl. No.	Name of the Dept.	GE	SC	OBC	ST	Total
1.	Physics	3	-	1	2	6
2.	Chemistry	4	-	5	6	15
3.	Mathematics	5	-	3	8	16
4.	Forestry	9	5	9	29	52
5.	Humanities & Social Sciences	-	-	-	2	2
6.	Management Studies	-	-	-	-	-
Total (B)		21	5	18	47	91
Total (A) + (B)		46	15	42	98	201

3.6 Miscellaneous

The Automation Process for Academic Section and Examination Cell activities of the Institute has become operational since the July-December 2016 session. The admission and counselling process were conducted through online mode. The ERP is fully functional for academic-related matters. All kinds of fees related to Academic and Examination are being collected through digital mode only.

The institute has participated in the National Institutional Ranking Framework (NIRF) 2024 and was placed in the rank band of 151-200 in Engineering.

All the Undergraduate and Postgraduate courses of the Engineering and Technology and the MBA of the Institute are recognised by the All India Council for Technical Education, New Delhi.

The Accreditation Board of ICFRE has granted accreditation of the Forestry courses run by the Department of Forestry, North Eastern Regional Institute of Science and Technology, with the Grade A+ for the period of five years from the date of issue of the order, i.e., 28.02.2025.

All the Undergraduate programs of the Institute are NBA-accredited.

The data of the Institute has been successfully uploaded to the All-India Survey on Higher Education (AISHE) for the survey year 2023-24.

Online Anti-Ragging undertaking has been introduced from July 2016. The students submit the Anti-Ragging (online) undertaking every year in July during Semester Registration.

The Ministry of Tribal Affairs, Govt. of India, has selected 20 (Twenty) PhD Scholars of NERIST for "National Fellowship and Scholarship for Higher Education of ST students" for the year 2024-25.

**SECTION - 4****4.1. DEPARTMENT OF FORESTRY****4.1.1. Profile of the Department**

The Department of Forestry came into existence in 1986 along with the establishment of NERIST to impart forestry education to the younger generations of the eight northeastern states of India. The Department currently offers programmes at Graduate (4 years B. Sc.), Postgraduate (2 years M. Sc.) and PhD levels. The Department of Forestry, with all courses, is accredited by the Indian Council of Forestry Research and Education (ICFRE), Dehradun, with an ‘A⁺ Grade for Five Years till 2030’. The Department is set against a large landscape of verdant scenic beauty. It is equipped with infrastructure designed to produce professional personnel with management capacity and the ability to take up future challenges in the field of forestry. Forestry courses in the institute are also an attempt to conform to the National Forest Policy 1988, which emphasises forestry education in India. Northeastern states of India are endowed with a large forest cover, which requires intellectual human resources for their conservation and sustainable management. Moreover, the region is considered as a mega diversity hot spot area rich not only in biodiversity but also having many rare, endangered, threatened and endemic species, some of which may become extinct soon without human intervention. With the vast learning experience, the outgoing students would be able to accomplish the mission of maintaining a balance between preservation of the genetic resources and sustainable utilisation of forest resources on one hand and development of the region on the other. The students are given exposure and training in various forest-based aspects through field visits, projects and dissertation work to gain practical knowledge and skills.

The backbone of the multi-disciplinary forestry course in the institute is its “faculty”, who are specialised in frontier subjects, i.e., Forest Ecology, Forest Geoinformatics, Wood Science and Technology, Horticulture, Taxonomy, Ethnobotany, Silviculture, Biodiversity conservation, Wildlife Management, Agroforestry, Nursery management, Biotechnology, Microbiology, Forest Genetics, Forest Economics and Management, etc. Apart from teaching, faculty members are also actively involved in conducting research works in different fields of forestry and allied subjects and guiding PhD students in their respective fields of specialisation. The Department has produced so far more than 101 doctoral theses leading to PhD degrees.

List of Faculty members with their designation and field of specialisation

Sl. No.	Name	Designation	Area of specializations
1.	Dr. B. Singh	Professor	Horticulture & Agroforestry
2.	Dr. C. L. Sharma	Professor	Wood Science & Technology, Ethnobotany
3.	Dr. M. B. Sharma	Professor & Dean (R&D)	Wood Science, Forest Products and their Utilization, Ethnobiology
4.	Dr. Karuna Shrivastava	Professor	Fungal Diversity, Plant-Microbe Interactions, Plant Biotechnology
5.	Dr. P. R. Gajurel	Professor& Dean (SA)	Plant diversity & Taxonomy Ethnoboany
6.	Dr. Awadhesh Kumar	Professor&Head	Wildlife ecology, Animal behaviour,Wildlife Conservation, Agroforestry
7.	Dr. Gobinda Pangging	Associate Professor	Forest Economics & Management
8.	Dr. Ashish Paul	Assistant Professor	Forest Ecology, Biodiversity Conservation, Carbon Sequestration & Climate Mitigation
9.	Dr. Madhu Kamle (On Lien)	Assistant Professor	Plant Biotechnology, Molecular Disease Diagnostics, Fungal-Plant Interaction
10.	Dr. Pradeep Kumar (On Lien)	Assistant Professor	Biotechnology, Phytochemistry, Plant Pathology & Biocontrol
11.	Dr. Gurumayum Ranibala	Assistant Professor	Forest Genetics, Tree Improvement
12.	Dr. Mihir Ranjan Panda	Assistant Professor	Natural Resource Management, Silviculture, Agroforestry



4.1.2. Academic Activities

Education and research in Forestry and its allied disciplines are the major academic activities of the Department. The various academic courses presently offered in Forestry sciences include:

Sl. No.	Name of Course	Duration
1	B. Sc. Forestry	4 Years
2	M. Sc. Forestry	2 years
3	PhD programme	Minimum three years with one year course work

All important aspects of Forestry viz., Forest management, conservation, protection and utilization, Forest policy and planning, Forest Biology, Wildlife management, Silviculture, Wood Sciences & Technology, Application of GIS and Remote Sensing, Microbiology and Biotechnology, Soil biology and management etc. have been covered along with related interdisciplinary subjects like Biochemistry, Biostatistics, Surveying, Marketing etc. particularly in B. Sc. Forestry. The Department has the potential to do justice with the Forestry education in NERIST. Industrial training for 90 days is an integral component of the B.Sc. Forestry course wherein students are attached to forest Departments, zoological parks, and research institutions across the country. The major topics undertaken in industrial training are natural resource management, wildlife management, tea cultivation and management, rural management, remote sensing, NWFP, Biodiversity conservation and forest ecology, etc.

The Department has in its credits more than 100 completed and 04 ongoing externally funded projects. The students working in the research projects have also been allowed to register for a PhD, through which several young scientists are being produced by the Department. So far, 101 PhD degrees have been produced by the Department. Currently, 30 full-time and 20 part-time PhD scholars are enrolled, who are doing their research work on varied forestry-oriented topics. The faculty members working in different areas of forestry and allied disciplines have contributed significantly to the overall knowledge dissemination through publications in scientific journals of national and international repute. The Department has a strong collaboration at the national and international levels with leading institutes and organisations.

4.1.3. Laboratories and Laboratory Development

The Department has eight well-equipped laboratories for conducting practical classes and R&D activities, besides three field labs (Nursery, Net house & Mist chamber) which cater to the needs of research activities of the Department. It is worth mentioning that the Department has undertaken more than 90 research projects (completed/ongoing) sponsored by several funding agencies like MHRD, DST, CSIR, AICTE, MoEF, UNESCO, GBPIHED, ICAR, ICFRE, DBT, ISRO, DSIR, UNDP, NEC, etc. and completed them successfully. All laboratories of Forestry Department are well equipped with conventional and sophisticated instruments and apparatus like Seed germinator, BOD incubator, Portable leaf area meter (Licor), Laminar air-flow chamber, Rotary shaker, Refrigerated centrifuge, Laboratory refrigerator, Deep freezers, Hot air oven, UV-vis Spectrophotometer, Atomic Absorption Spectro-Photometer, Flame photometer, Autoclave, Digital electronic balance, Research microscopes (Leica), Stereomicroscope (Zeiss), Phase-contrast microscope (Olympus), Spectro-fluorimeter, Wood microtome, Circular saw, Automatic weather station, Real-time & Gradient PCR systems, Gel documentation system, Gel electrophoresis, Gas Chromatograph, Socs Plus and Fibra Plus, Kelplus, Flame photometer, GPSs, GIS software etc. for conducting different experiments for student practices as well as for research activities. Well-developed Departmental computer centre and library provide the resources to students and faculty to carry out their academic and research activities.

The Department has an established Forest nursery cum herbal garden which is spread over 2 acres of land and harbours more than 100 tree/plant species, including important timber, medicinal, aromatic, and some indigenous plant species of the region.

**Existing Laboratories:**

Lab No.	Name of Lab/Facilities	In-charge
Lab 1	Wood Science & Forest Products	Dr. M.B. Sharma
Lab 2	Plant-Microbe Interaction & Biotechnology	Dr. K. Shrivastava
Lab 3	Forest Systematic Ethnobotany & Horticulture	Dr. P. R. Gajurel
Lab 4	Environment, NRM & Restoration Ecology	Dr. G. Pangging
Lab 5	Forest Ecology & Biodiversity Conservation	Dr. Ashish Paul
Lab 6	Wildlife Resources and Conservation	Dr. A. Kumar
Lab 7	GIS & Remote Sensing	Dr. Ashish Paul
Lab 8	Applied Microbiology	Dr. M. Kamle/ Dr. K. Shrivastava
Facility 1	Computing Facility	Dr. K. Shrivastava
Facility 2	Forest Nursery	Dr. P.R. Gajurel
Facility 3	Forestry Herbarium	Dr. P. R. Gajurel
Facility 4	Department Library	Dr. A. Kumar
Facility 5	Bioinformatics	Dr. K. Shrivastava

New Equipment/Items Added:

Sl. No.	Name of labs/Facilities	Name of equipments purchased	New Equipment Purchased	
			From Institute Fund	From Project Grants
1.	Applied Microbiology Lab.	Thermal Cycler; Make: Himedia; Model: 96-LA949	-	2,72,580/-
2.		Gel viewing device with camera Make: Himedia; Model: LA1068A	-	1,13,280/-
3		Constant Climate Chamber Make: IKON; Model: IK903	-	6,72,600/-
4		Handheld multistack gas Analyzer Make: Symax; Model: SMY-GA2	-	42,480/-
5		BOD Incubator Make: Tempo; Model: TI503	-	1,69,920/-

4.1.4 Project/Thesis Completed by PG / Ph. D. Students

[a] **PhD Thesis (awarded/submitted):** During April, 2024 to March 2025, seven scholars have been awarded with PhD degree, and one has submitted his thesis. The details are given below:

Sl. No.	Name and Roll No.	Supervisor(s)	Status	Title of PhD Thesis
1.	Mr. Mahesh Wangkhem, (Ph.D/FT/19/FO/04)	Prof. M. B Sharma	Awarded	Wood structural diversity among rhododendron species of Arunachal Pradesh, India
2.	Ms. Momang Tali, (Ph.D/FT/19/FO/01)	Prof. C. L. Sharma	Awarded	Anatomical and physico-mechanical properties of Rattan species of Arunachal Pradesh, India
3.	Dr. Purnamsree Gogoi (PhD/FT/20/FO/03)	Supervisor(i/c) Prof. Karuna Shrivastava Supervisor: Dr. P. Kumar Co-supervisor: Dr. M. Kamle	Awarded 28/11/2024	Exploration of endophytic bacteria from indigenous rice varieties of Assam and their evaluation for plant growth-promoting activity and against phytopathogens.
4	Ms. TageYakang (PhD/FT/19/FO/10)	Dr. P. R. Gajurel	Awarded	Study on morphological variations and phenology in two endemic species of Piper L. (Piperaceae) occurring in North East India
5.	Mr. Aribam Rocky Sharma (PhD/FT/18/FO/07)	Prof. O.P. Tripathi & Dr. Ashish Paul	Awarded	Potential effect of climate change on hydro-chemical properties of wetlands of Tawang district, Arunachal Pradesh
6	Mr. Mutum Sanjoy Singh (PhD/PR/18/FO/06)	Prof. L.B. Singha & Dr. Ashish Paul	Awarded	Ecological analysis of invasive alien vascular plants and their impact on forest crops along altitudinal gradients in Manipur



7	Dipika Parbo (PhD (PT)/17/FO/05)	Prof. A. Kumar	Awarded	Role of Fig Plants in Conservation of Frugivores in Pakke Wildlife Sanctuary, Arunachal Pradesh, India.
8	Rituraj Borah (PhD/FT/18/FO/08)	Supervisor(i/c) Prof. Karuna Shrivastava Supervisor: Dr. M. Kamle Co-supervisor: Dr. P. Kumar	Awarded	Isolation and characterization of anti-coleopteran <i>cry</i> genes from <i>Bacillus thuringiensis</i> strains of Arunachal Pradesh, India

[b]Dissertation completed by PG students: Following ten (10) M.Sc. (Forestry) thesis were submitted and approved. The details are as follows:

Sl. No.	Name and Roll No.	Supervisor(s)	Dissertation Title
M.Sc. (Forestry) Dissertation			
1.	Charu Yalum (MS/22/FO/002)	Dr. P. R. Gajurel	Utilization Pattern of Forest Resources by Nyishi Communities of Chambang Circle in Kra Daadi District of Arunachal Pradesh
2.	Phamhoi Wangshu (MS/22/FO/004)	Dr. P. R. Gajurel	Utilization Pattern of Forest Resources by the Nocte Communities in Tirap District of Arunachal Pradesh
3.	Parithouba Soram (MS/22/FO/005)	Prof. K. Shrivastava	Identification, phytochemical analysis and antimicrobial properties of <i>Cuscuta</i> species from Arunachal Pradesh, India
4.	Nedhiraj Singh Thokchom (MS/22/FO/006)	Prof. K. Shrivastava	Nutritional analysis of wild and cultivated banana fruits from Arunachal Pradesh, India
5.	Ms. Sonalika Wayembam (MS/22/FO/007)	Dr. Ashish Paul	Assessment of soil erosion risk through integrated approach of RUSLE and geospatial technology in Papum Pare district, Arunachal Pradesh
6.	Ms. Thoudam Simran (MS/22/FO/008)	Dr. Ashish Paul	Assessment of stream water quality in Naharlagun circle of Papum Pare district, Arunachal Pradesh
7.	Mousomi Tripura (MS/22/FO/012)	Dr. A. Kumar	Growth patterns of the tree species planted for restoration of degraded wildlife habitat in proposed KGCRS Community Reserve Forest, Arunachal Pradesh, India.
8.	Ms. Habaiah Ina Shabong, (MS/22/FO/010)	Prof. C.L. Sharma	Ethnobotanical study on Non-timber Forest Products through market survey in East Khasi Hills District, Meghalaya
9.	Ms. Joyful Dkhar, (MS/22/FO/011)	Prof. M.B. Sharma	Traditional knowledge of plants used by the Jaintia tribe of Meghalaya
10.	Dechen Choden Bhutia (MS/22/FO/013)	Dr. G. Pangging	Documentation of alien plant species in Sikkim: A case study from West Sikkim and North Sikkim districts of Sikkim, India

4.1.5 Short Term Courses/Seminars/Workshops/Conferences/Training organized:

Sl. No.	Name of coordinator	Title	Funding Agency	Venue	Duration	No. of participants
1.	Prof. Karuna Shrivastava & Dr. M. Kamle	Bioinformatics for Forestry and Agricultural Research	NIELIT, Itanagar	Nirjuli	3rd -7th April, 2024	75
2.	Dr. P. R. Gajurel	Fodder and Livestock based Intervention for Livelihood Improvement of NEH Farmers	ICAR-IGFRI, Jhansi, Govt. of India	Bhogpur, North Lakhimpur Assam	23 rd February 2025	50
3.	Dr. P. R. Gajurel	Fodder and Livestock based Intervention for Livelihood Improvement of NEH Farmers	ICAR-IGFRI, Jhansi, Govt. of India	Homora, Narayanpur Assam	8 th March 2025	35



4.	Dr. P. R. Gajurel	Bamboo and its Potential for Livelihood	State Bamboo Mission, Govt. of Arunachal Pradesh	Nirjuli	19 th - 20 th March 2025	80
5.	Dr. P. R. Gajurel	Management of Fodder Plants & Livestock	ICAR-IGFRI, Jhansi, Govt. of India	Nirjuli	26 th to 28 th March 2025	50
6.	Dr. P. R. Gajurel	Fodder and Livestock based Intervention for Livelihood Improvement of NEH Farmers	ICAR-IGFRI, Jhansi, Govt. of India	Sadiya Assam	31 st March 2025	52
7.	Dr. Ashish Paul	Northeast NSS Festival 2023-2024	NSS Regional Directorate, Ministry of Youth Affairs and Sports, Government of India, Guwahati.	NERIST	31 st March, 2024 to 4 th April, 2024	300

4.1.6 Short-Term Courses/Seminars/Workshops/Conferences attended by the Faculty

Sl. No.	Name of faculty	Details of programme attended
1.	Prof. K. Shrivastava	12 th International Mycological Congress (IMC12) held at Maastricht, Netherlands from 11-15 August 2024.
		5-day residential Faculty course titled “Nurturing Future Leadership Programme” held at IIM, Rohtak, Haryana, from 03 to 07, June 2024.
2.	Prof. P. R. Gajurel	XXIV Annual Conference of IAAT and International Seminar on “Botanical Symphony - Perspectives and Current Challenges in Angiosperm Systematics (BSPCCAS 2024)” 23–25, November 2024 , organized by IAAT with Assam University Silchar
		National seminar “Flora 1.0” organized by North Lakhimpur Colleges, Assam 29 – 30 Jan. 2024
		8th North East Green Summit organized by DEFCC, Govt of Ar P and VIBGYOR N.E Foundation on 10 March, 2024
3.	Prof. Awadhesh Kumar	Participated in a consultative workshop on “Formulation of the conservation Action Plan for Hoolock gibbon in Tripura” held at Tripura university, Suryamaninagar, Agartala from the 10 th to 12 th January 2024.
		Attended North-East Conclave on Climate Change: Adaptation and Resilience at Tezpur University, Tezpur, Assam from 14 to 15 th March 2024.
		Participated in FDP on “Inculcating Universal Human values in Technical” held at NERIST, Itanagar, Arunachal Pradesh from 7 th to 9 th February 2025.
4.	Dr. G. Pangging	Attended Face to Face FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by AICTE at NERIST from 7 th February to 9 th February 2025.
		Attended NEP 2020 orientation & Sensitization programme under Malaviya Mission Teacher Training Programme (MM-TTP) of UGC organized by Malaviya Mission Teacher Training Centre, Guru Nanak University, Amritsar (Punjab) from 08.07.2024 to 16.07.2024.
5.	Dr. Ashish Paul	Two Weeks online Faculty Development Programme on ‘Technology enabled Teaching, Learning & Process for Institutes’ jointly organized by Electronics & ICT Academies at- IIT Guwahati, NIT Patna, IIITDM Jabalpur & MNIT Jaipur held from 3 rd February to 14 th February, 2025 in association with North Eastern Regional Institute of Science and Technology, Arunachal Pradesh. Supported by Ministry of Electronics and Information Technology (MeitY), Government of India.
		One Week online Short Term Course on ‘Business Start-Ups and IPRS’ organized by NITTTR, Chandigarh held from 20 th -24 th January 2025.
		One Week online Faculty Development Programme on ‘Art of High-Quality Research Publishing’ organized by E & ICT Academy IIT Guwahati held from 6 th -10 th January, 2025 in association with North Eastern Regional Institute of Science and Technology, Arunachal Pradesh. Supported by Ministry of Electronics and Information Technology (MeitY), Government of India.



		6 th NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by UGC-Malaviya Mission Teacher Training Centre, DDU Gorakhpur University, Gorakhpur from 27 th May, 2024 to 5 th June, 2024.
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4.1.7. New Degree/Professional Membership obtained by the Faculty

1.	Dr. Madhu Kamle	<ul style="list-style-type: none"> ▪ Society for Plant Research (Life member) 2024 ▪ Indian Mycological Society (Life member) 2024
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4.1.8. Achievements, Awards, recognition earned by the Faculty:

1.	Prof. A. Kumar	Member, Bard of Studies, Department of Forestry, Manipur University, Imphal, Manipur
2.	Dr. G. Pangging	Reviewer of Indian Journal of Traditional Knowledge, January 31, 2024.
3.	Dr. Ashish Paul	<ul style="list-style-type: none"> ▪ Peer Recognition (Reviewer of the following Journals) ▪ Life, MDPI ▪ Environmental Monitoring and Assessment, Springer ▪ Land Use Policy, Elsevier ▪ Environmental and Sustainability Indicators, Elsevier ▪ iScience, Cell Press ▪ Environmental Challenges, Elsevier ▪ Journal of Environmental Management, Elsevier
4.	Dr. Madhu Kamle	<ul style="list-style-type: none"> ▪ Young Scientist Award (Nanoscience) by Society for Plant research ▪ Young Scientist Award (Plant Biotechnology) by SARSD, New Delhi

4.1.9. Project Sanctioned by Outside Agencies to the Faculty of the Department

Sl. No.	Name of PI/Co-PI	Title of project	Funding agency with date of sanction	Total Amount (Rs. Lakh)	Fund received (Rs. Lakh)
1.	Dr. P. R. Gajurel (PI) Dr. Binay Singh & Dr A. Kumar (Co-PI)	Fodder and Livestock based Intervention for Livelihood Improvement of NEH Farmers	IGFRI, Jhansi	14,40	14,40,000.00
2.	Dr. P. R. Gajurel	Exploration of native legumes of North-Eastern region of India and molecular characterization of associated nitrogen fixing microsymbionts: towards development of effective rhizobial consortium	DBT (2022-2025)	37.5	-
3.	Dr. K. Shrivastava	Use of non-toxic nanoformulations for prolonging shelf life and reduction of post-harvest loss of Mandarin orange (<i>Citrus reticulata</i>) of North East India" (Ref. No: BT/PR39789/NER/95/1664/ 2020 dated 09/02/2021. Fin 299)	Extended for 4 months (from 9 th Feb 2025 to 8 th June 2025)	-	-

4.1.10. Publications:

[a] Research Papers Published in Referred Journals

1.	Yengkhom Roamer Zest, Awadhesh Kumar , Om Prakash Tripathi, Rakesh Basnett & Dipika Parbo (2025). People perception on use patterns and conservation of Chinese Pangolin in and around Yangoupokpi Lokchao Wildlife Sanctuary, Manipur, India.
2.	Tali, M., Sharma, C. L. , Sharma, M. , and Wangkhem, M, 2024. Stem anatomy of Calamus species of Arunachal Pradesh, India. Journal of the Indian Academy of Wood Science 21:65–82.
3.	Prajapati P, Porwal C, Garg M, Singh N, Sadhu SD, Chopra R, Rao ES, Agarwal A, Saeed M, Rab SO, Mahato DK, Kumar P, Kamle M , Tripathi AD. (2025). Transforming lemon Peel into a sustainable reservoir



	of bioactives: A green osmotic dehydration strategy. Food Chemistry.10(25):102172.
4.	Pawle P, Pandey S, Kumar A, Agarwal A, Tripathi AD, Saeed M, Rab SO, Mahato DK, Kumar P, Kamle M. (2025). Valorization of raw papaya (<i>Carica papaya</i>) and citrus peels for development of antimicrobial and biodegradable edible film. Food Chem X. doi: 10.1016/j.fochx.2024.102129.
5.	Pandey S, Gupta A, Mahato DK, Paul V, Tripathi AD, Rasane P, Kumar P, Kamle M , Haque S (2025). Lutein and Zeaxanthin: Source, Extraction, Stability, Bioactivity, and Functional Food Applications. Curr Pharm Biotechnol. doi: 10.2174/0113892010334209 241206113640.
6.	Wangkhem, M., Sharma, M., Sharma, C. L., Tali, M. and Rai, N. (2024). Comparative anatomy of some <i>Rhododendron</i> species of Arunachal Pradesh, India. J. Indian Acad Wood Sci 21(1):204–223.
7.	Debbarma, J., Sharma, C. L. and Sharma, M. (2024). Documentation of spices and condiments as medicines by Reang community of Tripura. Journal of Spices and Aromatic Crops Vol. 33 (1): 61-73.
8.	Tali, M., Sharma, C. L., Sharma, M., and Wangkhem, M. (2024). Morpho-anatomical and physical properties of some Rattan species of Arunachal Pradesh, India. Vegetos: https://doi.org/10.1007/s42535-024-01058-0
9.	Singh, K. K., Singh S. S. and Sharma C. L. 2024. Antidiabetic and antioxidant properties of important traditional medicinal plants from Northeastern India. Int J Pharm Sci & Res. 15(6): 1728-36.
10.	Bhaskar J. Sharma, Karuna Shrivastava, S. S. Singh (2024). Bharat Moni: A promising Musa cultivar of Assam, India. Indian Journal of Horticulture 81(04):351-358. http://dx.doi.org/10.58993/ijh/2024.81.4.3
11.	Gajurel, P. R., Kashung, S., Yakang, T & Bora. 2024 <i>Piper kiminensis</i> a new species with shingling variegated leaves from Arunachal Pradesh, India <i>Phytotaxa</i> 689 (2): 269–276 doi: 10.11646/phytotaxa.689.2.10
12.	Middleton, D.J, Gajurel P. R., Lua H. K., Lindsay & Turner IM 2024 Flora of Singapore precursors 48: Further notes on the genus Piper (Piperaceae) in Singapore <i>Gardens' Bulletin Singapore</i> 76(2):243-250 DOI: 10.26492/gbs76(2).2024-06
13.	Taid S., Singh, S. S. & Gajurel P. R. 2024. Two new species of Ornamental Musa (Musaceae) from Arunachal Pradesh, north east India. 2024 (9): Nordic Journal of Botany. https://doi.org/10.1111/njb.04271
14.	Yakang Tage, Gajurel P. R & Singh B. (2024). Distribution, morphology, and phenology of <i>Piper acutistigmum</i> C. DC. – an endemic species of the Eastern Himalayan region. <i>Plant Science Today</i> (Published online) doi.org/10.14719/pst.3173
15.	Deepankar Barman, Awadhesh Kumar, M. Firoz Ahmed and Ashalata Devi (2024) Record of threatened Mishmi Takin (<i>Budorcastaxicolortaxicolor</i> Hodgson, 1850) from Lower Dibang valley district, Arunachal Pradesh, India. Records of the Zoological survey of India 124(1):1-3 https:// doi. 10.26515/rzsi/v124/i1/2024/153302.
16.	Sushmita Kar, Shailandra Singh, C.ZupeniTsanlai and Awadhesh Kumar (2024). Twinning in Asian Giant Tortoise (<i>Manouriaemysphayrei</i>) Embryos.Reptiels and Amphibians, 31:e21341 https://doi.org/10.17161/randa.v31i1.21341.
17.	Dipika Parbo, Awadhesh Kumar, Ashalata Devi,Janmejy Sethy, Yengkhom Roamer Zest, Rakesh Basnett (2024). Diversity of Fig species and their ecological services in Pakke Wildlife Sanctuary, Arunachal Pradesh, India. Journal of Wildlife and Biodiversity, 8(2): 55-80, https://doi.org/10.5281/zenodo.10938700.
18.	Murali Krishna Chatakonda*, Hiranmoy Chetia and Awadhesh Kumar (2024). Activity budget and feeding patterns of the Red Giant Gliding Squirrel (<i>Petauristapetaurista</i> , Pallas 1766) in the Eastern Himalayan rainforest of India. Mammalia, https://doi.org/10.1515/mammalia-2024-0103.
19.	Songthing, W., Pangging, G. and Singh, S.S. (2025). Distribution and utilization of <i>Musa</i> spp. by Nocte tribe in Tirap district, Arunachal Pradesh. Hayati Journal of Biosciences, 32(1): 89-105.
20.	Nabam, A., Pangging, G. and Sharma, M. (2025). Documentation of prevailing agroforestry systems and socio-economic conditions of agroforestry farmers of Nyishi tribe: A case study of Papum Pare district in Arunachal Pradesh, India. Indian Journal of Agroforestry. 27(1): 1-20.
21.	Lalruatkimi, C., Devi, K.B., Mohamed, A.A.A., Tleipuii, R.V.L., Paul, A., Yam, G., Semy, K. and Tripathi, O.P. (2025) Seasonal variation in soil quality across different land use systems in Dampa Tiger Reserve, Mizoram, India. <i>Eurasian Soil Science</i> . https://link.springer.com/journal/11475
22.	Teron, G., Bordoloi, R., Paul, A., Singha, L.B. and Tripathi, O.P. (2025) Total soil carbon modelling along the altitudinal gradients in Eastern Himalaya, Arunachal Pradesh. <i>European Journal of Forest Research</i> 144(1):95-107 https://doi.org/10.1007/s10342-024-01743-4
23.	Ronrang, N., Tripathi, O.P., Paul, A., Mourya, K.K., Kumar, S., Kumar, R., Barman, A., Ramchandran, S., Meena, R.S., Hota, S., Saikia, U.S., Ray, P., Jena, R.K., Sharma, G.K. and Ray, S.K. (2024). Comparative analysis of soil health parameters across diverse land use systems in the hilly terrain of Northeast India: a case study from Changlang district, Arunachal Pradesh. <i>Journal of Bioresources</i> 12(2): 57-62. UGC-CARE
24.	Teron, G., Bordoloi, R., Paul, A., Singha, L.B. and Tripathi, O.P. (2024) Effect of altitude on soil physico-



	chemical properties and microbial biomass carbon in the Eaglenest Wildlife Sanctuary of Arunachal Pradesh. <i>Geology, Ecology, and Landscapes</i> https://doi.org/10.1080/24749508.2024.2430040 .
25.	Das, B., Patnaik, S.K., Bordoloi, R., Pual, A. and Tripathi, O.P. (2024) Prediction of forest aboveground biomass using an integrated approach of space-based parameters, and forest inventory data. <i>Geology, Ecology, and Landscapes</i> 8(3):381-393.
26.	Sharma, A.R., Bordoloi, R., Paul, A., Gyanendra, Y. and Tripathi, O.P. (2024) Water quality and geochemical facie of high-altitude lakes in Tawang, Eastern Himalaya, India. <i>Environmental Science and Pollution Research</i> 31(16):24492-24511. Impact Factor: 5.8
27.	Lalruatkimi, C., Devi, K.B., Mohamed, A.A.A., Tleipuii, R.V.L., Paul, A., Yam, G., Semy, K. and Tripathi, O.P. (2025) Seasonal variation in soil quality across different land use systems in Dampa Tiger Reserve, Mizoram, India. <i>Eurasian Soil Science</i> https://link.springer.com/journal/11475

[b] Books/Book Chapter published:

Sl. No.	Author	Title of Book	Publisher	Year of publication
1.	Sharma R, Singh A, Singh V.D.R, Ghazaryan K, Kumar P, Kamle M	Phytonanotechnology Application for Sustainable Agriculture. <i>In Smart Technologies in Sustainable Agriculture: Current and Future Prospects</i> . Eds. Kumar P, Singh A, Singh VDR, Minkina T, Singh A.	Apple Academic Press, Inc., Canada	2024
2.	Singh A, Singh VDR, Ghazaryan K, Yadav AKS, Teyi N, Kumar P, Kamle M	The Next Generation of Farming and the Importance of Artificial Intelligence, Sensor Technology, and Big Data. <i>In Smart Technologies in Sustainable Agriculture: Current and Future Prospects</i> . Eds. Kumar P, Singh A, Singh VDR, Minkina T, Singh	Apple Academic Press, Inc., Canada	2024
3.	Sharma C, Gogoi P, Kamle M, Kumar P	Nanocurcumin: Herbal trends to develop novel antifungal agents. <i>In. Nanofungicides: Novel Applications in Plant Disease Control</i> . By Kamel A Abd-Elsalam (ed.),	-	2024

[c] Papers presented in Conference/Invited talks/Plenary lectures delivered/Abstract Published:15

1.	Prof Karuna Shrivastava	Karuna Shrivastava , Alokesh Barman, S. Sureshkumar Singh (2024). Ethnomycology and trade channel of <i>Cordyceps ssinensis</i> (berk.) Sacc. in Arunachal Pradesh, North East India. Paper presented 12 th International Mycological Congress in Maastricht, Netherlands, from 11 th -15 th August 2024.
		Tirthraj Chetri and Karuna Shrivastava (2024). GC-MS analysis of <i>Aristolochia rethya</i> collected from Arunachal Pradesh, Northeast, India. Paper presented in international conference on 'Frontiers in Chemical sciences, held at IIT, Guwahati from 2 nd – 4 th December, 2024.
2		Swastika Sharma, S.S. Singh and Karuna Shrivastava (2024). Activity, screening and optimized production of protease enzymes in solid state fermentation of filamentous fungi isolated from forest soils of Arunachal Pradesh. International conference on biodiversity and climate change: challenges and opportunities for nature-based solutions held at Dibrugarh Univ., from 11 th -13 th Nov., 2024.
3		Bhaskar Jyoti Sharma, Karuna Shrivastava and S.S. Singh (2025). Micropropagation of Bharat Moni cultivar of banana using shoot tip explants' Paper presented in National conference on agriculture, environment and sustainable development (NCASED) held at RGU, Doimukh from 10 th – 11 th March, 2025.
4.		Alokesh Barman, Karuna Shrivastava and S.S. Singh (2025). Exploration and ethnomycological studies on high altitude wild mushrooms from Arunachal Pradesh, North-East India. Paper presented in National conference on agriculture, environment and sustainable development (NCASED) held at RGU, Doimukh from 10 th – 11 th March, 2025.
5.		Swastika Sharma, S.S. Singh and Karuna Shrivastava (2025). Production and screening of amylase activity in solid state fermentation of filamentous fungi isolated from forest soils of Arunachal Pradesh, Presented in National conference on agriculture, environment and sustainable development (NCASED) held at RGU, Doimukh from 10 th – 11 th March, 2025.
6.		Tage Yama, S.S. Singh and Karuna Shrivastava (2025). Enhanced production of violacein pigment by <i>Chromobacterium vaccinii</i> isolated from the forest soil of Arunachal Pradesh India. Paper presented in National conference on agriculture, environment and sustainable development (NCASED) held at RGU, Doimukh from 10 th – 11 th March, 2025.
7.	Bamang Raju and Karuna Shrivastava (2024). Phytochemical Analyses of Disang (<i>Skimmia</i> sp.) - A traditional medicinal plant used by Nyishi tribe of Arunachal Pradesh, India, Paper	



		presented in National Seminar on Biodiversity for Sustainable Future with Special Focus on Plant Taxonomy and annual conference of east Himalayan Society for Spermatophyte Taxonomy (EESST) held at Gauhati Univ. from 27 th -28 th Sept. 2024.
8.		Tirthraj Chetri and Karuna Shrivastava (2024). Morphology and molecular studies of <i>Aristolochia cathcartii</i> Hook. f. from Arunachal Pradesh, North East, India Paper presented in National Seminar on Biodiversity for Sustainable Future with Special Focus on Plant Taxonomy and annual conference of east Himalayan Society for Spermatophyte Taxonomy (EESST) held at Gauhati Univ. from 27 th -28 th Sept., 2024\
9..	Prof. P. R. Gajurel	<i>Habit forms, Distribution and Phylogeographical affinities of Indian Piper species (Piperaceae)</i> in XXIV Annual Conference of IAAT and International Seminar on “ <i>Botanical Symphony - Perspectives and Current Challenges in Angiosperm Systematics (BSPCCAS 2024)</i> ” November 23–25, 2024, organized by IAAT with Assam University Silchar
10.		<i>The forest & biodiversity of North East India</i> in the symposium 8th North East Green Summit on 10 March, 2024 organized by DEFCC, Govt of AP and VIBGYOR N.E Foundation
11.		<i>Medicinal plant diversity of North East India: Management & Conservation</i> in the national workshop <i>Technological empowerment of women in natural resource management</i> 09-10, Sept. 24 organized by National Sc. Acad., India with RGU Itanagar
12.		<i>Biodiversity, Traditional Knowledge Systems and ethnobotany in northeast India</i> in national seminar “Flora 1.0” organized by North Lakhimpur Colleges, Assam 29 – 30 Jan. 24
13.	Prof. A. Kumar	Presented poster in the role of protected areas for biodiversity conservation- <i>A geospatial perspective at Kaziranga National Park and Tiger Reserve, Assam</i> from 12-13 th March 2024.
14.		Presented a paper on “ <i>The Tea Gardens Matrix and a Future Paradigm for Wildlife Biodiversity Conservation</i> ” as a Planner Lecture in National Seminar on Recent Trends in Zoological Research from 25 th to 26 th March 2025 held at RGU, Itanagar, Arunachal Pradesh
15.	Dr. G. Pangging,	Yangfu, M. and Pangging, G. (2024). Documentation, utilization and valuation of sacred and magico-religious plants utilized in the Lungte-Yullo festival of Nyishi tribe in East Kameng and Kurung Kurmey districts of Arunachal Pradesh, India. Paper presented in 2 days international conference on “3 rd International Conference on Environment, Forestry and Sustainable Agriculture” (3r ICEFSA, 2024) organized by International Academy of Science and Research (IASR) Kolkata, West Bengal, 2024.

4.1.11. Interaction of Faculty/Department with outside agencies

The following faculty members have actively interacted with the following outside agencies/ organizations for academic, research and development works:

Sl. No.	Name of faculty	Name of outside committee/professional body
1.	Prof. K. Shrivastava	<ul style="list-style-type: none"> ▪ Central Institute of Technology (CIT), Kokrajhar, Assam. ▪ Central Agricultural University (CAU), Imphal, Manipur. ▪ College of Horticulture & Forestry (CHF), CAU, Pasighat, Arunachal Pradesh. ▪ Indian Institute of Technology (IIT), Guwahati, Assam. ▪ National Institute Food Technology Entrepreneurship and Management (NIFTEM), Sonapat, Haryana. ▪ NIT Arunachal Pradesh. ▪ RGU, Arunachal Pradesh.
2.	Prof. A. Kumar	<ul style="list-style-type: none"> ▪ Member, Board of studies, Department of Forestry, Manipur University, Imphal. ▪ Acted as External examiner of the BOE to conduct the PhD Viva-voce of Dibrugarh University. ▪ Acted as Chairman, for upgradation of fellowship from JRF to SRF of students of Department of Zoology, Rajiv Gandhi University, Itanagar, A.P. ▪ Acted as External expert, for upgradation of fellowship from extension of CSIR fellowship of students of Department of Botany, Rajiv Gandhi University, Itanagar, A.P.
3.	Dr. Ashish Paul	<ul style="list-style-type: none"> ▪ Chaired a Technical Session on the sub theme of Biodiversity Conservation during the 3rd International Conference on Biodiversity: Exploration, Exploitation and Conservation for Sustainable Development (ICB 2025) from 06th to 07th March, 2025 organized by the Department of Botany, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Behali, Assam, India.

**4.1.12. Achievements of Students**

The details of the achievements of students are mentioned below:

[a] B.Sc. Forestry 2024 batch achievements: The following B.Sc. forestry 2024 pass out students are selected for higher education in different organization all over India.

Sl. No.	Name	University
1.	Ibawanker Lyngdoh (DS/19/FO/115)	MSc Forestry, NERIST
2.	Khushboo Anand (DS/20/FO/108)	MSc Forestry, NERIST
3.	Bhargov Milli (DS/20/FO/119)	MSc Forestry, NERIST
4.	Chwngsa Jamatia (DS/20/FO/114)	MSc Forestry, NERIST
5.	Yamin Murtem (DS/20/FO/117)	MSc Forestry, NERIST
6.	Ropiła K. (DS/20/FO/119)	MSc Forestry, NERIST
7.	Mela Nora Aihun Lyngdoh (DS/20/FO/107)	MSc Forestry, NERIST
8.	Bannangiar Kurbah (DS/20/FO/113)	M.Sc. Forestry, Wildlife and Environmental science in Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur, Chhattisgarh
9.	Chandini Chandra Sah (DS/20/FO/101)	M.Sc. Forestry, Wildlife and Environmental science in Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur, Chhattisgarh
10	Nistha Sonowal Deori Boralee (DS/20/FO/121)	M. Sc. Forestry (Silviculture and Agroforestry), Uttar Banga Krishi Vishwavidyalaya, Pundibari, West Bengal.
11	Kelelhoe Sirie (DS/20/FO/110)	M.Sc. Forestry (Forest Products and Utilization), Sher-e Kashmir University of Agricultural Sciences & Technology of Kashmir (SKUAST Kashmir).
12	Yizzini (DS/20/FO/128)	M.Sc. Forestry (Silviculture and Agroforestry), Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya, Uttar Pradesh.
13	Rupali Roy (DS/20/FO/120)	M.Sc. Forestry, Forest Research Institute (FRI), Dehradun

[b] PhD Forestry student's achievements

1.	Mr. Bhaskar Jyoti Sharma (PhD/FT/18/FO/10),	First Prize for Oral presentation in theme II (Offline) for the topic 'Micropropagation of Bharat Moni cultivar of banana using shoot tip explant' in the National Conference on Agriculture, Environment and Sustainable Development (NCASED-2025) from 10th -11th March, 2025, Organized by Dept. of Horticulture and Dept. of Agricultural Engineering, Rajiv Gandhi University, Arunachal Pradesh, India.
2.	Ms. Tage Yama	First Prize for Oral presentation in technical Theme – III (Offline) for the topic 'Enhanced production of violacein pigment by Chromobacterium vaccinii isolated from the forest soil of Arunachal Pradesh India' in the National Conference on Agriculture, Environment and Sustainable Development (NCASED-2025) from 10th -11th March, 2025, Organized by Dept. of Horticulture and Dept. of Agricultural Engineering, Rajiv Gandhi University, Arunachal Pradesh, India.

[c] PhD/M.Sc./B.Sc. Forestry students got Govt./Private jobs/Awarded National and International fellowship:**B.Sc. Forestry 2024**

Sl. No.	Name	Job	Remarks
1	Ankita Singh (DS/20/FO/123)	Development Apprentice in PRADHAN, Job via NERIST placement	Campus interview
2	Kaustove Moni Kashyap (DS/20/FO/127)	Expert Information Representative in Agroforestry, CIFOR ICRAF, Assam/ AMRIT CEMENT PVT. LTD.	- Campus interview



3	Satakhshi Chakraborty (DS/20/FO/122)	Job, Bangalore	-
4	Chumik Dolma Sherpa (DS/20/FO/112)	School teacher, Sikkim	-
5	Parishmita Borah (DS/20/FO/125)	GROW UPP	Campus interview
6	Ms. Mela Aihun Nora Lyngdoh (DS/20/FO/107)	SRIJAN	Campus interview

M.Sc. Forestry 2024

Sl. No.	Name	UG/PG	Job
1	Dechen Choden Bhutia (MS/22/FO/013)	M.Sc. Forestry	Graduate forester, Forest and Environment Department, Sikkim

4.1.13. Any other relevant information**a) Organised invited Talks: 03**

S/N	Title of Talk and delivered by person with date
1.	“Remote Sensing and Natural resources Management” by Prof. Kiranmay Sarma, University of School of Environment Management, Guru Govind Singh Indraprastha University, New Delhi on 20 th September 2024.
2.	“Understanding the forest genetic diversity using molecular tools” by Dr. R.K. Choudhary, Scientist-E, Aghakar Research Institute, Pune, Maharashtra on 15 th October 2024.
3.	“Forest resource conservation and management” by Prof. (Retd.) N.P. Todaria, ex-HoD & Dean, H.N.B. Garhwal University, Srinagar, Uttarakhand on 17 th January 2025.

b) Outside University PhD thesis evaluated by Department faculties: 05

S/N	Name of faculty	Topic of thesis	Name of University
1.	Prof. P.R. Gajurel	Ex-situ conservation, chemical and molecular profiling of ‘sweet flag’ (<i>Acorus calamus</i> L.) germplasm from the Western Ghats	University of Kerala
2.	Prof. P.R. Gajurel	Floristic investigation of ferns and lycophytes of Shendurney Wildlife Sanctuary, Southern Western Ghats and ex-situ conservation of selected taxa	University of Kerala
3.	Prof. P.R. Gajurel	Morpho-Taxonomic Studies on The Arboreal Angiosperms and Lianas in Barail Wildlife Sanctuary, Assam	Assam University
4.	Prof. A. Kumar	Biological and ecological studies of Scirtothrips dorsalis Hood, A major pest of tea and evaluation of some biopesticides for tis management	Dibrugarh University
5.	Prof. A. Kumar	Mapping the bacterial diversity and in vitro screening of potentially <i>Fusarium oxysporum</i> f.sp. cubense (Foc) suppressive soil from <i>Musa</i> rhizosphere in Assam.	Assam University
6.	Prof. A. Kumar	Avifaunal diversity and structure in urban parks of Delhi	Amity University

(c) Collaboration for research work

- Jai Narain Vyas University (JNVU), Jodhpur
- ATREE, Bangalore
- Singapore Botanic Garden, Singapore

d) Events organised by Department faculty:

S/N	Name of faculty	Name of event
1.	Prof. A. Kumar	Organized Ek Ped Maa Ke Naam campaign on 2 nd October 2024
2.	Prof. A. Kumar	Organized International Biodiversity Day on 22 nd May 2024.



3.	Prof. A. Kumar	Organized World Environment Day on 5 th June 2024
4.	Prof. A. Kumar	Organized National Science Day on 28 th February 2024
5.	Dr. G. Pangging	Organized DR. B.R. Ambedkar Jayanti on 14th April 2024 as LO SC/ST.

c) Eminent personalities who visited the Department:

1. Dr Krishna Kumari, College of Horticulture & Forestry, Pasighat, Arunachal Pradesh, on 16th May 2024.
2. Prof. A.K. Bhatt, Department of Botany, Shimla University, Shimla, Himachal Pradesh, on 23rd May 2024.
3. Prof. Kiranmay Sarma, Department of Environmental Science, Indraprastha University, New Delhi, on 20th September 2024.
4. Dr R.K. Choudhary, Scientist-E, Agharkar Research Institute, Pune on 15th October 2024 on 15th October 2024.
5. Prof. Dinesh Yadav, Director, Research & Development Cell, DDU, Gorakhpur University, U.P., on 22nd November 2024.
6. Prof. S.C. Tiwari, Dean, School of Natural Resources, Guru Ghasi Das University, Bilaspur, Chhattisgarh, on 29th November 2024
7. Prof. Kalidas Upadhyaya, Department of Forestry, Mizoram University, Aizawl, Mizoram, 29th November 2024
8. Prof. N.P. Todaria, Ex-HoD & Dean, H.N.B. Garhwal University, Srinagar, Uttarakhand, on 17th January 2025.
9. Dr Vijay Dhasmana, President, Swami Rama Himalayan University, Dehradun, Uttarakhand, on 22/01/2025.



4.2. DEPARTMENT OF AGRICULTURAL ENGINEERING

4.2.1. A Brief Profile of the Department:

Agricultural Engineering is the application of engineering principles in agriculture. Agricultural Engineering deals with the use of engineering tools and practices to solve crop production, handling and processing problems for food and fibre, along with the production to consumption chain. It includes the application of scientific knowledge in diverse and multidisciplinary activities for the overall development of the nation and farming community under a protective environment.

The Agricultural Engineering Department started its B. Tech. program in Agricultural Engineering in the year 1986. The Department adopts a modular pattern of education leading to the degree of B.Tech. in Agricultural Engineering, in three modules, viz., base, diploma and degree. Each module provides terminality corresponding to an occupational level and at the same time provides entry to the next higher module finally leading to degree in Agricultural Engineering. After B.Tech., they may join postgraduate programmes and PhD.

The Department has 14 faculty members. Two sponsored research projects (DST and NECTAR) on emerging areas of Agricultural Engineering are running in the Department, besides one All India Coordinated Research Project (AICRP) on Human Engineering and Safety in Agriculture, funded by ICAR, New Delhi.

4.2.2 Academic Activities:

The Department of Agricultural Engineering has conducted a Curriculum Revision Workshop in the light of NEP2020 on 18th October, 2024. Academician and Industry Experts; Prof. P. K. Singh, Prof. Sabyasachi Mishra and Mr Rattan Singh attended the workshop, whose expertise and vision have established a clear direction for the future of the curriculum.

The meeting of the Board of Studies (BoS) of the Department was held on 01.02.2025. External BoS member, Mr Deep Jyoti Dutta, Sr. Assistant Manager, Goodrick Pvt. Ltd., attended the meeting. Another external member, Dr P. Srinivasa Rao, Professor, IIT Kharagpur, attended the meeting online.

4.2.3. Laboratories and Laboratory Development

The following list of equipment was purchased for the development of a lab focused on **farm machinery and power**.

1. Loadcell Button Type - Model: LCB-340 - ₹3,40,000
2. Torque Sensor - Model: TS-145 - ₹1,45,000
3. Linear Displacement Sensor - Model: LDS-297 - ₹2,97,000
4. Angular Displacement Sensor - Model: ADS-435 - ₹4,35,000
5. Floor Scale - Model: FS-850 - ₹85,000
6. Display Unit for Floor Scale - Model: DUFS-740 - ₹74,000\
7. Crane Scale - Model: CS-560 - ₹56,000

Computational Laboratory:

Maintenance/Development Work

1. A total of 24 non-functional PCs have been repaired and made fully operational.
2. All PCs have been upgraded with SSDs for improved performance, and RAM has been increased to 8/16 GB as per system requirements.
3. The Computational Lab has been relocated to the First Floor to enhance accessibility and space utilisation.
4. Electrical connections have been established to support the relocated lab setup.
5. The online UPS system has been made functional, ensuring an uninterrupted power supply to all systems.
6. LAN, Wi-Fi, and internet connectivity are now fully functional, providing seamless network access for academic and research activities.
7. A total amount of **₹4,20,000** was spent on the upgradation of these PCs.

**Irrigation and Drainage Engineering Laboratory**

Repair work on the tilting channel was done (Rs. 10000).

Farm Power Laboratory

The concrete floor of the laboratory was in poor condition, posing a challenge to regular operations and creating an unhealthy working environment. A sum of ₹39,200 was received from the institute for repairing the floor of the Farm Power laboratory.

The Department of Agricultural Engineering established a new **Drying and Food Packaging Laboratory** in 2024. This laboratory is equipped with various types of drying and packaging machinery, including spray dryers, fluidised bed dryers, deep freezers, sealing machines, and powder filling packaging machines. Electrical and civil maintenance work was also carried out during the year to ensure smooth functioning and effective conduct of practical sessions.

For minor repairing of survey instruments and purchasing of consumable items, Rs. 2 lakhs was expended for various laboratories and experimental fields in the year 2024-25.

4.2.4 Project completed by the PhD/PG/UG students (completed in May/June,2024).**A. PhD**

Sl. No	Title of the PhD work	Name of the Supervisor /Co-supervisor	Name of the student
1.	Assessment of Natural Springs Reliability for Rural Water Security in the Lesser Himalayan Region: Papum Pare District, Arunachal Pradesh	Prof. P. K. Pandey	Mr. Prem Ranjan
2.	Investigations of Manual Material Handling and Dust Exposure among Rice Mill Workers for Health Risk	Prof. K. N. Dewangan	Mr. Surya Chhetri
3.	Assessment of Variability in Glacier-melt and Snow-melt Runoff under Projected Climatic Scenarios for a Data-scarce Himalayan River Basin.	Prof. A. Bhadra and Prof. A. Bandyopadhyay	Ms. P. C. Vanlalnunchnani
4.	Measurement, Modelling and Mitigation of Gas Emissions in Livestock Farm and Assessment of Health Risk and Environmental Impact	Prof. K.N. Dewangan	Ms. Sarju Thokchom
5.	Development of smart oyster mushroom planting machine	Prof. T. Patel	Mr. Huidrom Dayananda Singh

B. M. Tech. (Soil and Water Conservation Engineering/Farm Machinery and Power) project

Sl. No.	Topic	Supervisor(s)	Student Name	Roll No.
1	Use of machine learning technique to predict rainfall timeseries	P. P. Dabral	KOIJAM SINIBATH SINGH	MT/22/SWC/001
2	Flood risk mapping for a hilly catchment of NE India	A. Bandyopadhyay and A. Bhadra	VITHONO TASE	MT/22/SWC/004
3	Spatial and temporal variations of light rain events over NE region	S. K. Shrivastava	ALICE T. HUMTSOE	MT/22/SWC/005
4	Spatiotemporal variation of potential evapotranspiration multi-source data in Nagaland	V. Pandey and P. K. Pandey	THEJANO YHOSHU	MT/22/SWC/006
5	Trend analysis of Precipitation and Temperature based climate change indices in Nagaland	P. K. Pandey and V. Pandey	MENANGNOCHET JAMIR	MT/22/SWC/007
6	Assessment of Variability in Glacier and Snow-melt Runoff	A. Bhadra and A. Bandyopadhyay	NIAMKOI K.	MT/22/SWC/008
7	Flood forecasting using machine learning technique for a hilly watershed	A. Bandyopadhyay and A. Bhadra	KIKHUMCHA Y.	MT/22/SWC/010



8	Development and Evaluation of a Mechanical Bamboo Flattening Device	Tage Tapang	N THUNGCHEBIMO LOTHA	MT/22/FMP/001
9	Ergonomic evaluation of solar operated paddy thresher	Anubhab Pal/ T. Patel	S. SOROKHAIBAM	MT/22/FMP/002
10	An ergonomic assessment and design intervention for power operated maize Sheller	T. Patel	MALSAWMDAWNGK IMI	MT/22/FMP/003
11	Ergonomic evaluation of manual material handling in load carrying	K. N. Dewangan	NOVJEET RAJ SAH	MT/22/FMP/004
12	Estimation of stature from upper limb anthropometry for north-eastern population	Anubhab Pal	SALOMY A SANGMA	MT/22/FMP/005
13	Development of Double-Glazed Natural Circulation Solar Dryer for Seed Drying	Ukil Singh/ Tage Tapang	K SORILA YIMCHUNGER	MT/22/FMP/006
14	Production and mechanical characteristics of fuel briquettes made from saw dust and rice husk	Ukil Singh	PETENEINUO YHOME	MT/22/FMP/007

C. Degree projects

Sl. No	Topic	Supervisor/ Co supervisor	Roll No	Name of the student
1	Frequency analysis for one day to seven consecutive days annual maximum rainfall	Dr. P.P Dabral	D/20/AE/29 D/20/AE/25 D/20/AE/27 D/20/AE/28 D/20/AE/31	Oje kamra Nani nobin M R Singha Lazing Taggu Nending Nomo
2	Design modification of paddy drum seeder	Dr. K.N Dewangan	D/20/AE/109 D/20/AE/114 D/20/AE/106 D/20/AE/13 D/20/AE/101	Maru Talu Kime Nobin Techi David Kendar Ete Viphreseno Seletsu
3	Probability analysis of rainfall for crop planning of Assam.	Dr. S.K. Shrivastava	D/20/AE/113 D/20/AE/34 D/20/AE/35 D/20/AE/3 D/20/AE/4	Avie L Ch Marak Bovi K Sumi Vilila Mongzar D.Syiemiong Evanbitdor Hoojon
4	Evaluation of spatial and temporal variations in the snow cover and snow parameters in high altitude river basins of Arunachal Pradesh	Dr. Aditi Bhadra	D/20/AE/19 D/20/AE/20 D/20/AE/107 D/19/AE/103 D/17/AE/01	Rejoice Ningshen M. Kshetrimayum M. Anguishung M Nitesh K Sharma N.Techi Gerchi
5	Evaluation of spatial and temporal variations in annual average soil loss in selected river basins of Arunachal Pradesh	Dr. Arnab Bandyopadhyay	D/20/AE/8 D/20/AE/5 D/20/AE/110 D/20/AE/06 D/20/AE/07	Kevisede Chaya Kevithozo Casavi Abindo Tayeng Hovikho Neikha Igielung
6	Exploring the Relationship Between Rainfall Patterns and Normalized Difference Vegetation Index (NDVI) in Northeast India	Dr. P.K. Pandey	D/20/AE/11 D/20/AE/16 D/20/AE/18 D/20/AE/23 D/20/AE/30	Nazma Khatun Dipi Hajong C. Jayalakshmi Toko Sith Subu Konia
7	Bamboo shoot processing for value addition in Arunachal Pradesh	Dr. T Patel & A.K. Chaudhry	D/20/AE/1 D/20/AE/112 D/21/AE/201 D/21/AE/203	K. Kenguruse Sahil Pal Prerona Bordoloi Sanjukta Dutta



			D/21/AE/205	Priyanka Das
8	Development of a Battery-Operated Fruit Harvester	M. U. Singh & Tage Tapang	D/20/AE/21 D/20/AE/09 D/20/AE/10 D/20/AE/14 D/20/AE/36	Anjali Thakur Rubu Dinsung Pem Lhamu Ronal Pegu Imsusanen Jamir
9	Fabrication of improved handheld dibbler for sowing and fertilizer application	Anubhab Pal	D/20/AE/12 D/20/AE/22 D/21/AE/206 D/20/AE/108 D/20/AE/103	Rohit K Pasi Tajay Marbom Phanuma Kochari Michi Rimin Modify Rymbai
11	Trend analysis of Temperature and Rainfall	Vanita Pandey	D/20/AE/24 D/20/AE/26 D/20/AE/32 D/21/AE/204 D/21/AE/202	Tamar Kaji Bikam Cheda Gali Beyong Smriti Rekha Mili Pallabi Dutta
10	Hydroponics and Conventional Methods of Growing Lettuce.	Tage Tapang & M. U. Singh	D/20/AE/111 D/20/AE/15 D/20/AE/33 D/20/AE/017 D/20/AE/104	B. Boruah Kalyan K Borah Ramesh Chetry Rahul K. Rashmi Kashyap

4.2.5 Short-term course/seminars/workshops/conferences organised at NERIST:

Sl. No.	Areas	Title	Coordinators	Duration	Funding Agency/Sponsors	No. Participants
1.	IoT in Agriculture	Application of IoT in Agriculture	Dr. T. Patel and Mr. A. Pal	April 8 - 12, 2024	National Institute of Electronics & Information Technology (NIELIT) Itanagar, Arunachal Pradesh	55
2.	BTech curriculum revision	Curriculum Revision Workshop in the light of NEP2020	Mr. M. Ukil Singh, Ms. Vanita Pandey and Dr. Tage Tapang	18 October, 2024	NERIST	14
3.	Ergonomics and Safety	XVIth Annual Workshop of the All India Coordinated Research Project (AICRP)	Prof. K. N. Dewangan and Prof. T. Patel	04 – 05th March 2025	ICAR, New Delhi	35

4.2.6 Short-term courses/seminars/workshops/conferences attended by the faculty.

Sl. No.	Name of Faculty member	Name of the Short-term Course/Conference /Workshop	Duration	Place	Organized By
1	K. N. Dewangan	22nd Triennial Congress of International Ergonomics Association	25 – 29 August, 2024	Jeju South Korea	Ergonomic Society of Korea
2	K. N. Dewangan	10th International Conference on Research in to Design (ICoRD 2025)	8 – 10 January 2025	IIT Hyderabad	IIT Hyderabad
3	K. N. Dewangan	National Conference on Agriculture, Environment and Sustainable Development (NCAESD-2025)	10 – 11 March 2025	Rajiv Gandhi University, Doimukh	RGU
4	K. N. Dewangan	16 th Annual Workshop of All India Coordinated Research Project (AICRP) on Ergonomics and Safety in Agriculture and Allied Sector	4 – 5 March 2025	NERIST, Nirjuli	NERIST, Nirjuli



		(ESAAS)			
5	K. N. Dewangan	National Workshop on the use and integration of SWAYAM and Credit transfer in the context of NEP 2020	22 – 23 July 2024	Shillong College, Shillong	Shillong College, Shillong
6	K.N. Dewangan	NEP 2020 Orientation & Sensitization Programme	27 May – 5 Jun 2024	Online	UGC-Malaviya Mission Teacher Training Centre, DDU Gorakhpur University, Gorakhpur
7	Aditi Bhadra	Application of IoT in Agriculture	8-12 Apr 2024	NERIST	NIELIT Itanagar
8	Aditi Bhadra	Workshop on New Education Policy and National Credit Framework	9 May 2024	IIT Guwahati	IIT Guwahati and National Skill Development Corporation
9	Aditi Bhadra	NEP 2020 Orientation & Sensitization Programme	27 May-5 Jun 2024	Online	UGC-Malaviya Mission Teacher Training Centre, DDU Gorakhpur University, Gorakhpur
10	Aditi Bhadra	North Eastern and Eastern Zone Vice-Chancellors' Conference on "Implementation of NEP 2020"	28 Jun 2024	Guwahati	UGC
11	Aditi Bhadra	Women Leaders: Shaping Academic Excellence for VIKSIT Bharat @2047	13 Dec 2024	IIT Delhi	UGC, MoE
12	Aditi Bhadra	National-Level Consultative Workshop on NEP 2020 Implementation	19 Feb 2025	Online	National Institute of Educational Planning and Administration (NIEPA)
13	Aditi Bhadra	State level Sensitization workshops on ACABC Scheme	7 th March 2025	Itanagar	NABARD
14	Arnab Bandyopadhyay	Application of IoT in Agriculture	8-12 Apr 2024	NERIST	NIELIT Itanagar
15	Arnab Bandyopadhyay	NEP 2020 Orientation & Sensitization Programme	27 May-5 Jun 2024	Online	UGC-Malaviya Mission Teacher Training Centre, DDU Gorakhpur University, Gorakhpur
16	Arnab Bandyopadhyay	NESAC User Interaction Meet	5-6 September 2024	Hybrid (attended Online)	North East Space Application Centre, Umiam
17	Arnab Bandyopadhyay	Workshop on 'Emerging Space Technology Application in Water Resources Management'	16 August 2024	Aizawl	Irrigation & Water Resources Department, Mizoram and IIT Roorkee
18	Arnab Bandyopadhyay	World Standards Day 2024	14 October 2024	NERIST, Nirjuli	IEI, Arunachal Pradesh State Centre
19	Arnab Bandyopadhyay	Advances in irrigation Technologies and management	29-30 Nov 2024	Assam Water Centre, Guwahati	Ministry of Jal Shakti
20	Arnab Bandyopadhyay	Academic Bank of Credit (ABC/APAAR)	24 Feb 2025	Directorate of Higher & Technical Education, Itanagar	AISHE & MoE, Govt. of India
21	Pankaj Kumar Pandey	International conference on Sustainable Agriculture System Engineering-2024 (ICSASE-24)	9 th -11 th October, 2024	Barcelona, Spain	ICSASE-24 Barcelona, Spain
22	Thaneswer Patel	International conference on Sustainable Agriculture System Engineering-2024 (ICSASE-24)	9 th -11 th October, 2024	Barcelona, Spain	ICSASE-24 Barcelona, Spain
23	Thaneswer Patel	Recent Advances in Structural Engineering and Material Science	25 th to 29 th June, 2024	Civil Engineering Department of Jorhat Engineering College, Jorhat	Civil Engineering Department of Jorhat Engineering College, Jorhat



24	Thaneswer Patel	Advanced Pedagogy	January 15 to January 26, 2024	NITTTR, Kolkata	National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata
25	Thaneswer Patel	Nurturing Future Leadership Program	18/03/2024 to 22/03/2024	IIT Delhi	IIT Delhi
26	Thaneshwer Patel	NEP 2020 Orientation & Sensitization Programme	27.05.2024 to 05.06.2024	D D U Gorakhpur University, Gorakhpur	UGC-Malaviya Mission Teacher Training Centre
27	Thaneshwer Patel	NEP 2020 Orientation & Sensitization Programme	18th to 27th June, 2024	MMTTC, IIT Patna	IIT Patna
28	Thaneshwer Patel	National Workshop for Regional Coordinating Institutions	18th & 19th March, 2024	National Coordinating Institute, Unnat Bharat Abhiyan, IIT Delhi	IIT Delhi
29	M. Ukil Singh	Application of IoT in agriculture.	8 th to 12 th April, 2024	NERIST	NIELIT, Itanagar in association with NERIST
30	M. Ukil Singh	Latest trends in additive manufacturing.	3 rd to 7 th June, 2024	Online mode	Dr. M.G.R. Educational and Research Institute, Tamil Nadu
31	M. Ukil Singh	Geo-informatics in disaster management.	18 th to 22 nd June, 2024	Online mode	Civil Engineering Department of Jorhat Engineering College, Jorhat
32	M. Ukil Singh	VI th NEP 2020 Orientation & Sensitization Programme.	8 th to 17 th July, 2024	Online mode	UGC- Malaviya Mission Teacher Training Centre, University of Allahabad
33	M. Ukil Singh	AI enhanced research writing: tools, techniques and best practices for academics.	2 nd to 7 th September, 2024	Online mode	Department of MBA, Ballari Institute of Technology and Management, Karnataka & RSP Science Hub, Coimbatore, Tamil Nadu
34	M. Ukil Singh	Generative AI: a comprehensive approach to research writing, proposal development, and funding.	7 th to 9 th February, 2025	Online mode	School of Management Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu & RSP Science Hub, Coimbatore, Tamil Nadu
35	Arun Kumar Choudhary	FDP on Application of IoT in Agriculture	5 Days April 08 - 12	NERIST	NIELIT
36	Arun Kumar Choudhary	International conference on Sustainable Agricultural Systems Engineering (ICSASE-24)	Oct. 9-11, 2024	Barcelona (Spain)	ICSASE-24 Barcelona, Spain
37	Arun Kumar Choudhary	State level Sensitization workshops on ACABC Scheme	7 th March 2025	Itanagar	NABARD
38	Anubhab Pal	Application of IoT in Agriculture_	2024, April 08 - 12	NERIST and NIELIT	NERIST and NIELIT
39	Anubhab Pal	NEP 2020 Orientation & Sensitization Programme	2024, May 27 - June 5 - FDP	Online	NERIST
40	Anubhab Pal	International conference on Sustainable Agricultural Systems Engineering (ICSASE-24)	Oct. 9-11, 2024	Barcelona (Spain)	ICSASE-24 Barcelona, Spain
41	Vanita Pandey	Art of high-quality research publishing	6 Jan - 10 Jan 2025	Online NERIST	E&ICT, IIT, GHY
42	Vanita Pandey	FDP on introductory UHV	7 Feb - 9 Feb, 2025	NERIST	AICTE
43	Tage Tapang	Application of IoT in Agriculture	2024, April 08 - 12	NERIST	NIELIT



44	Tage Tapang	Science and Technology for Disaster Risk reduction	8 – 12 July, 2024	RRSC-N, New Delhi	ISRO
45	Tage Tapang	Inculcating Universal Human Values in Technical Education	7 Feb – 9 Feb, 2025	NERIST	AICTE
46	Tage Tapang	State level Sensitization workshops on ACABC Scheme	7 th March 2025	Itanagar	NABARD

4.2.7 New Degrees/Professional Memberships obtained by the faculty

Sl. No.	Name of Faculty member	Name of the Degree /Professional Society	Membership Number	Date and Year
1.	Aditi Bhadra	Fellow of The Institution of Engineers (India)	F-1308021	07-06-2024
2.	Arnab Bandyopadhyay	Fellow of The Institution of Engineers (India)	F-1306415	10-04-2024

4.2.8 Achievements/awards/recognition earned by the faculty

Sl. No.	Name of Faculty member	Achievement	Award	Recognition
1.	K.N. Dewangan		Distinguished paper Award in International Conference on Research into Design, ICoRD2025	
2.	K.N. Dewangan			All India Coordinated Research Project (AICRP) on Ergonomics and Safety in Agriculture and Allied Sector (ESAAS), NERIST Center was recognized as top two best centers by ICAR, New Delhi
3.	K.N. Dewangan	AA rating under NPTEL Local Chapters		
4.	A K Choudhary	Best Oral presentation	Oral presentation at the international conference on “Sustainable Agricultural Systems Engineering” (ICSASE-24) Oct. 9-11, 2024	EAP, Barcelona (Spain)
5.	A K Choudhary	Best Oral presentation	Oral presentation at the national conference on agriculture, environment and sustainable development (NCAESD-2025)”	RGU, Arunachal Pradesh from 10 to 11 th March 2025

4.2.9 Projects sanctioned by outside agencies to the faculty of the Department

Sl. No.	Name of PI/Co-PI	Title of the project	Funding Agency	Date of Sanction	Total Amount	Fund received during the year under review
1.	K.N. Dewangan and T. Patel	All India Coordinated Research Project on Ergonomics and Safety in Agriculture	ICAR	18.06.2024	47,99,000	46,50,00,000
2.	Thaneswer Patel/ Anubhab Pal	Impact of Climatic Variables on Heat Stress and Real-Time Monitoring with IoT-Based Solutions for Sustainable Agricultural Livelihoods	DST	15/03/2024	5187338	33,099,52
3.	K.N.	Assessment of Farm	ICAR	22.10.2024	13,83,000	5,40,00,000



	Dewangan	Mechanization Status and Prospects of Custom Hiring in India				
4.	A. K. Choudhary (as Co-PI)	Development of an AI-Enabled Automated System for Rapid and Mass Grading of fruits Using spectroscopic, morphological and physiological analysis	Industry Academia collaboration scheme by Glet Carafe Limited in collaboration with NVIDIA Company	27.01.2025	12,50,000	-

4.2.10 Publications:

(a) Referred Journal

Sl. No	Name of Authors	Title of the paper	Name of the Journal	Issue No./DOI Vol/Year/Month	Page No.
1.	K. N. Dewangan	Evaluation of dust and endotoxin exposure among rice mill workers in Northeast India	Toxicon	248 (September 2024):	108050
2.	K. N. Dewangan	Respirable dust and crystalline silica exposure among rice mills workers of northeast India	Journal of Occupational and Environmental Hygiene	29(8)	1-11
3.	K. N. Dewangan	Backyard farming of pig and poultry in Arunachal Pradesh: A case study. Journal of Agricultural Development and Policy	Journal of Agricultural Development and Policy	34(2)	194-202
4.	V. Nunchhani, N. Chiphang, Arnab Bandyopadhyay, Aditi Bhadra	Development of a Spatially Distributed Snow and Glacier Melt Runoff Model (SDSGRM) for data scarce high-altitude river basins	Environmental Modelling and Software	175(April): 106004 DOI: 10.1016/j.envsoft.2024.106004 April 2024	106004
5.	M. Vese, V. Nunchhani, G. Samjetsabam, Arnab Bandyopadhyay, Aditi Bhadra	Development and Testing of a Glacier Mass Balance Model Using VB.NET to Simulate Glacier Surface Area for Himalayan Glaciers	Environmental Modeling & Assessment	30 DOI: 10.1007/s10666-024-09990-w February 2025	157-176
6.	N. Bole, Arnab Bandyopadhyay, Aditi Bhadra	PixelSWAT: A user-friendly ArcGIS tool for preparing inputs to run SWAT in a distributed discretization scheme	Applied Computing and Geosciences	23: 100175 DOI: 10.1016/j.acags.2024.100175 September 2024	100175
7.	S. Debbarma, S. Mandal, A. Borgohain, B. Ori, S. Syad, L. Sangtam, Arnab Bandyopadhyay, Aditi Bhadra	Optimum flood inundation mapping in mountainous regions using Sentinel-1 data and a GIS-based multi-criteria approach: a case study of Tlawng river basin, Mizoram, India	Environmental Monitoring and Assessment	196, 1227 DOI: 10.1007/s10661-024-13437-w November 2024	1227
8.	S. Mandal, V. Nunchhani,	Development of QGIS plugin for flood inundation mapping:	Sustainable Water	11: 7	7



	Arnab Bandyopadhyay, Aditi Bhadra	applying Otsu's thresholding technique	Resources Management	DOI: 10.1007/s40899-024-01185-1 December 2024	
9.	S. Debbarma, Arnab Bandyopadhyay, Aditi Bhadra	Streamflow Simulation Using a Hybrid Approach Combining HEC-HMS and LSTM Model in the Tlawng River Basin of Mizoram, India	Environmental Modeling & Assessment	DOI: 10.1007/s10666-024-10018-6 January 2025	Online
10.	N. Bole, N. Chipang, Arnab Bandyopadhyay, Aditi Bhadra	Assessment of Suitability of Gridded Precipitation Data for Hydrological Simulation in Eastern Himalaya: A Case Study	Journal of Water Management Modeling	33: C537 DOI: 10.14796/JWMM.C537 January 2025	Online
11.	T. Golom, Arnab Bandyopadhyay, Aditi Bhadra	Analyzing Snow Parameters Dynamics in Arunachal Pradesh's Glaciated River Basins Through Spatially Distributed Snowmelt Runoff Model (SDSRM): Dibang, Mago and Subansiri	Journal of the Indian Society of Remote Sensing	52(7) DOI: 10.1007/s12524-024-01899-x July 2024	1589–1609
12.	N. Bole, S.L. Luwang, Arnab Bandyopadhyay, Aditi Bhadra	Evaluating the Impact of Snowmelt Patterns on Alaknanda River Streamflow in the Western Himalayas: An ArcSWAT Analysis	Journal of The Institution of Engineers (India): Series A	106 DOI: 10.1007/s40030-024-00845-x March 2025	111–125
13.	Pankaj Kumar Pandey and Vanita Pandey	Evaluation and application of satellite rainfall datasets using Google Earth Engine platform in Arunachal Pradesh, Eastern Himalayan Region of India	Bulletin of Atmospheric Science and Technology	Volume 5, Issue 1 December 2024 DOI:10.1007/s42865-024-00069-8	Article No. 6
14.	Pankaj Kumar Pandey and Vanita Pandey	Quantification of the impact of land cover and climate change on water and sediment yield in sub-tropical Himalayas in upstream Teesta River basin, Sikkim	<i>Remote Sensing Applications: Society and Environment</i>	<i>Volume 34, April 2024</i> DOI:10.1016/j.rsase.2024.101146	Article No. 101146
15.	Thaneswer Patel and Anubhab Pal	Design and implementation of an IoT-based microclimate control system for oyster mushroom cultivation	International Journal of Agricultural Technology	Volume 20, Issue 4 Published on: July, 2024	1431-1450
16.	Thaneswer Patel and Anubhab Pal	Effects of WBGT on the thermal and physiological responses of North-Eastern Indian agricultural workers during paddy transplanting operations	Indian Journal of Hill Farming	Volume 37, Issue 1 Published on: June, 2024	36-48
17.	Thaneswer Patel	Advancing Cashew Nut Shelling Technology: A Comprehensive Review of Existing Methods and the Potential of Smart Innovations	Agric Res J	61 (6) Published on: December 2024,	855-864
18.	Arun Kumar Choudhar	Modelling and thermal analysis of an integrated solar	Journal of Stored Products	106 https://doi.org/10.1016/j.j	102313



	y	greenhouse dryer for ginger (Zingiber officinale) and product quality	Research	spr.2024.102313	
19.	Anubhab Pal	A comparative study of the effectiveness of photogrammetric versus manual anthropometric measurements.	Work	17 April 2024 78(3), https://doi.org/10.3233/WOR-230276	735–746.
20.	Nikita Mishra, Lamneithem Hangshing, Darshan Shashank Kadam, Tage Tapang and Shameena S.	Advances in Vertical Farming: Opportunities and Challenges	Journal of Scientific Research and Reports	10.9734/jsrr/2024/v30i82241 July 2024	212-222

(b) Conference papers:

No.	Sl.	Name of Authors	Title of the paper	Name of the Conference	Year	Pages
1.		Tage Tapang	Development and Evaluation of a Mechanical Bamboo Flattening Device	6 th International Conference on “CSATEH-2024”	2024	168-169

4.2.11 Interaction of faculty/Department with outside agencies:

Sl. No.	Name of Faculty member	Details of Interaction
1.	All AE faculty members	Interaction with Prof. P. S. Rao, IIT Kharagpur, Prof. Adarsh Kumar, ICAR, Prof. Ashish Pandey, IIT Roorkee on 16th January 2025.
2.	All AE faculty members	Interaction with DDG (ICAR) Dr. S. N. Jha, Dr. K. P. Singh, Assistant Director General (FE), ICAR and Dr. C. R. Mehta, Director, CIAE Bhopal on 03rd March 2025,
3.	All AE faculty members	Interaction with NABARD Officials including GM, DGM, AGM, AM, district level officers on 21st March 2025.
4.	K.N. Dewangan	Interacted with faculty of Shillong College, Shillong on 23 rd July 2024
5.	K.N. Dewangan	Interacted with faculty and participants of NCAESD-2025, Rajiv Gandhi University, Doimukh on 10 th March 2025
6.	K.N. Dewangan	Interacted with faculty of Don Bosco College, Itanagar on 7 th February 2025
7.	Arnab Bandyopadhyay	Interaction with National Hydrology Model developers from AgFE IITKGP on 31 December 2024 at IIT Kharagpur

4.2.12 Consultancy Projects undertaken

Sl. No.	Faculty and Staff associated	Title of the consultancy project	Agency	Date of Sanction	Total Amount	Fund received during the year under review
1	Arnab Bandyopadhyay, Aditi Bhadra, Mr. Tarak Golom and Swapan Kumar Debnath	Development of Flood Warning System for Tlwang River, Mizoram, Development of Rating Curve & Preparation of Water Data Yearbook	National Hydrology Project, World Bank via Irrigation and Water Resources Dept., Govt. of Mizoram	April 2022	59,96,524	23,98,610



4.2.13 Achievements of Students:

1. Ksh. Boris Singh of Base Module 1st Year was the Winner under the Stage 1 'IDEATION HACKATHON' of the PM DevINE PROJECT: Digital Design & 3D Printing Centre of Excellence.
2. Pulonito Hesso of Base Module 2nd Year was the Winner of the Blind Chess Competition in Shristi 2024.
3. Tadar Tarkum of Base Module 2nd Year was Placed 3rd in the Blind Chess Competition in Shristi 2024.
4. Punyo Henja of B. Tech. 2nd Year won Man of the Match of the opening match of the 3rd Yikar Taki Memorial Football Tournament.
5. Yiangyam Richard of B. Tech. 3rd Year won the 2nd Prize in the Competition for Article Writing organised by AGEAN.
6. Preetam Raj, Piyush Patel and Kyrshan Borlang Rani of B. Tech. 4th Year won the 3rd prize in GIS Workshop in Shristi 2024.
7. Piyush Patel of B. Tech. 4th Year won the 2nd prize in Know Your Earth in Shristi 2024.
8. MTech second year students Ms Gracy Dangmei and Mr Wapangyanger Walling, and PhD scholar Ms Jeming Gollo participated in the 5-day Training Programme on “Hydrological Modelling” held from 30th September to 4th October, 2024, at Tezpur, which was organised by “North Eastern Regional Institute of Water and Land Management, Tezpur”.
9. In the month of November 2025, innovative ideas of Monmohan Chakraborty from BTech second year and Debarsish Gogoi from BTech fourth year were selected under the Promoting Innovations among NERIST Students (PINS) scheme by the Institute’s Innovation Council (IIC) for funding to make a prototype.
10. Dr B. Surya K. Chhetry, Dr Sarju Thokchom and Mr Tapi Tada attended the 58th Annual Convention of the Indian Society of Agricultural Engineers (ISAE) held at Vasant Rao Naik Marathwada Krishi Vidyaapeeth, Parbhani, during November 12-14, 2024.
11. Three BTech final year students, Leiho Konyak, Asol Roy Khylllep, and Araldonald F. Sweetly, performed a **two-week training on “Food Technology Entrepreneurship Development”** from 16/12/2024 to 29/12/2024 at the National Institute of Food Technology Entrepreneurship and Management (NIFTEM), Kundli, Sonapat, Haryana.
12. Base second year students attended a **winter internship** of fifteen days in December 2024 at the North Eastern Region Farm Machinery Training and Testing Institute, Biswanath Chariali, Assam.
13. B.Tech third year students took part in **an industrial visit** in the month of December 2024 at various places in the North West part of India.
14. Many students participated in various events conducted under **Alcheringa, IIT Guwahati**, at the end of January 2025. Indira Gamlin (B.Tech., second year) participated in Dance. Khurajam Rishikanta Meitei (BTech second year) and M. Momo Anguishing (SWCE MTech first year) participated in Football. Lalbiakdika (BTech first year) and Kevithozo Casavi (FMP MTech first year) participated in volleyball.
15. Ms Tai Setal and Mr Animesh Singha attended the **Think India North East Summit 2025 at IIT Guwahati** during 22-23 February 2025.
16. Piyush Patel and Rupam Deka won third prize in the poster competition by presenting their B.Tech. Project work on “Development of IoT-based automatic irrigation control system” on 28th February, 2025 (National Science Day), organised by Science Departments in collaboration with Institutes’ Innovation Council (IIC), NERIST.
17. Seven students have qualified for GATE 2025:
 - i. Punam Techi AIR 55
 - ii. Kendar Ete - AIR 239
 - iii. Musarrat Jahan AIR 263
 - iv. Evanbitdor Hoojon - AIR 422
 - v. Kyrshanborlang Rani AIR 518
 - vi. Chansa Raingam AIR 518
 - vii. Tanyang Sumpa AIR 518
18. The following students were placed in various companies in Campus interview



Company	Name and Roll Number of students
K12 Techno Services Pvt. Ltd.	Prerona Das (D/22/AE/203)
	Samir Rahman (D/21/AE/101)
	Piyush Patel (AE) (D/21/AE/018)
	Rupam Chandra Deka (D/22/AE/204)
	Musarrat Jahan (D/21/AE/029)
	Amisha Patel (D/21/AE/019)

4.2.14 Any other relevant information:

Patents/Copyright Published (2024-25): 10

1. Copyright was received for “**dynamic anthropometric measurement via real-time 2d image processing (DAM-RT2DIP)**” by Anubhab Pal, Huidrom Dayananda Singh, Thaneswer Patel on 31/05/2024 (SW-18873/2024).
2. Design registration received for “**Szechuan pepper harvesting device**” by K.N. Dewangan, B Surya Kumar Chhetry, Sarju Thokchom on 24/07/2024 (424314-001).
3. Patent was received for “**Remote controlled turning mechanism of power tiller with safety features**” by P. K. Pranav, Surya Kumar Chhetry, Anubhab Pal, Mayangkaba Aier on 29/07/2024 (546351).
4. Patent was received for “**Power-operated mini rhizome planter**” by K. N. Dewangan, Thaneswer Patel, Sarju Thokchom, B. Surya Kumar Chhetry, Bishorjit Ningthoujam on 26/08/2024 (549396).
5. Patent was received for “**Battery-assisted pineapple leaves pruning device**” by K.N. Dewangan, B Surya Kumar Chhetry, Sarju Thokchom on 30/08/2024 (548570).
6. Design granted on Manually Operated Gun Type Kiwi Pollinator by Priyam Goswami, Thaneswer Patel, Himangshu Bora, Bishorjit Ningthoujam and Subhabrata Basu, Design Number: 431518-001, Year: 2024
7. Design granted on the Oyster Mushroom Layer-by-Layer Plantation Machine by Huidrom Dayananda Singh, Thaneswer Patel, Hijam Jiten Singh, Naseeb Singh and Anubhab Pal, Design Number: 402710-001, Year: 2023
8. Copyright granted on IOT-Integrated Oyster Mushroom Cultivation Chamber Climate Management System by Huidrom Dayananda Singh, Thaneswer Patel and Anubhab Pal, Registration Number: SW-19908/2024, Year: 2024
9. Copyright granted on Oyster Mushroom Plantation Machine Code by HUIDROM Dayananda Singh, and Thaneswer Patel, Registration Number: SW-18950/2024, Year: 2024
10. Copyright granted on Dynamic Anthropometric Measurement via Real-Time 2D Image Processing (DAM-RT2DIP) by Anubhab Pal, Huidrom Dayananda Singh, and Thaneswer Patel, Registration Number: SW-18873/2024, Year: 2024
11. Copyright granted on Spring Resilience: Assessing Water Scarcity and Storage Capacity for Seasonal Sustainability by Prem Ranjan, P.K. Pandey, Vanita Pandey, Huidrom Dayananda Singh on 12/08/2024 (SW-19313/2024).



4.2 DEPARTMENT OF CIVIL ENGINEERING

4.3.1. A Brief Profile of the Department

The Department of Civil Engineering has been an integral part of the Institute since its establishment in 1985. Over the years, it has grown steadily and is now recognised as one of the leading engineering Departments in the north-eastern region of the country. The primary objective of the Department is to produce high-quality technical manpower at Certificate, Diploma, Degree, and Postgraduate levels—serving the needs of the North-Eastern Region in particular and the nation at large.

The Department is well-equipped to provide quality education through its team of qualified faculty and staff. Currently, it comprises 16 faculty members with specialisations across various domains of Civil Engineering. In addition, the Department has technical and support teams, including three Senior Instructors, one Technician, two Laboratory Attendants, one Lower Division Clerk (LDC), and two Peons. The staff members are well trained, and notably, one Senior Instructor holds a PhD degree. To support the Department's academic and laboratory activities, there are also one Multi-Tasking Staff (MTS), two Skilled Labours, and two Hand Receipt Staff.

The Department's laboratories are well-equipped to support both undergraduate and postgraduate programs. It can also undertake challenging consultancy assignments and sponsored research projects. To facilitate knowledge dissemination, the Department regularly organises workshops, short-term training programs, and conferences, targeting faculty members, government officials (particularly from Arunachal Pradesh), NGOs, and community-level stakeholders.

Currently, there are 87 students enrolled in the Base Module and 272 in the Degree Module, totalling 359 students in the undergraduate programs. Additionally, there are 28 students in the M.Tech. program in Environmental Science and Engineering (ESE), and 31 students in the M.Tech. program in Geotechnical Engineering (GTE). The PhD program has 33 full-time and 10 part-time research scholars.

4.3.2 Academic activities

Since its inception, the Department of Civil Engineering has been offering Certificate, Diploma, and Degree programs. With the attainment of deemed-to-be-university status, the Department expanded its academic portfolio by introducing two M.Tech. programs—one in Environmental Science and Engineering (ESE), and the other in Geotechnical Engineering (GTE). PhD programs are also offered in key and emerging areas of Civil Engineering.

The Department offers a wide range of courses, including:

Engineering Graphics and Design, Structural Engineering, Geotechnical Engineering, Computer-aided Civil Engineering Drawing, Design of RCC Structures, Hydraulics and Water Resources Engineering, Fluid Mechanics, Environmental Engineering, Transportation Engineering, Surveying and Geomatics, Disaster Preparedness and Planning, Materials Testing and Evaluation, Construction Engineering and Management, Engineering Geology, Engineering Economics and Estimation, among others.

Students also have access to a variety of electives in specialised areas such as Structural Dynamics, Earthquake Engineering, Advanced Mechanics of Solids, Finite Element Method, as well as open electives from other Departments.

Projects are assigned to Diploma and Degree students, while final-year Postgraduate students undertake Dissertations. These projects are designed considering academic advancements, industry requirements, and local needs.

In the year under review, the Department's faculty members have made significant academic contributions, with **30 publications in referred journals**, **5 book chapters**, and **20 research papers** presented at national and international conferences. Furthermore, **two patents** have been granted by the Patent Authority of India, and **one copyright** has been filed and is currently under review. The faculty members have also written and submitted project proposals under various government schemes, which are under review.



4.3.3 Laboratories and Laboratory Development

The Department has the following laboratories:

1. Computer Lab
2. Drawing and Drafting Section
3. Engineering Geology Lab
4. Environmental Engineering Lab - I
5. Environmental Engineering Lab - II
6. Field Engineering Lab
7. Geotechnical Engineering Lab -I
8. Geotechnical Engineering Lab –II
9. GIS Lab
10. Highway Engineering Lab
11. Instrumentation Lab
12. Material Testing Lab
13. Structures Lab
14. Surveying Lab
15. Traffic Engineering Lab
16. Water Resources Engineering Lab - I
17. Water Resources Engineering Lab - II

Three new Laboratories, (i) GIS Lab, (ii) Instrumentation Lab, and (iii) Traffic Engineering Lab are to be set up with all modern facilities.

4.3.4 Projects completed by the UG/PG/PhD Students

(a) B. Tech. Projects completed

Sl. No.	Name of the Student	Roll no.	Supervisor	Title of B. Tech. Project
1.	Jagdish Chetia	D/20/CE/104	Dr. Dibyendu Pal	Modeling of lateral gap maintaining behavior of vehicles using machine-learning techniques.
	Gaurav Changmai	D/20/CE/11		
	Helito wotsa	D/21/CE/207		
	Preet Saha	D/21/CE/204		
2.	Ankit Kumar Yadav	D/20/CE/05	Dr. N. G. Sorum	Statistical examination of injury severity of single- vehicle Accidents.
	Lalrohlui Fanai	D/20/CE/22		
	Sagar Das	D/20/CE/109		
	Naorem Kumarjit Singh	D/21/CE/202		
3.	Priyanshu Kumar	D/20/CE/08	Dr. Yame m Tamut	Analysis and designing of flexible pavement in Arunachala Pradesh region using IIT pave.
	Asmit Kumar	D/20/CE/07		
	Karka Karlo	D/20/CE/10		
	Lalnunsiami	D/20/CE/115		
	Mudang Pullo	D/20/CE/39		
4.	Yapu Murtem	D/20/CE/33	Dr. R. K. Prasad	Rainfall runoff modelling of Dikrong river basin in Arunachala Pradesh, India using hec-hms 4.11
	Jasmin Begam	D/19/CE/109		
	Taya Murtem	D/20/CE/34		
	Kenneth Koso	D/20/CE/02		
	Aditya kumar	D/21/CE/212		
5.	Smily Jamatia	D/20/CE/28	Shri S.K. Sahu	Direct solution of three reservoir problem
	Liban Tsopoe	D/20/CE/26		
	Satemkaba Imsong	D/20/CE/106		



	Wanname Ryan Diengdoh	D/20/CE/19		
	Felix Vanlaldusaka	D/20/CE/21		
6.	Naorem Roshni Chanu	D/20/CE/14	Shri K. James Singh	Land use mapping of Tipaimukh Dam
	Sanjeet Singh	D/20/CE/12		
	Amlan Jyoti Mahanta	D/21/CE/206		
	Jetiya Thong	D/20/CE/114		
	H Lalfakawma	D/21/CE/205		
7.	Thokchom Bindiya Devi	D/20/CE/13	Dr. Ajay Bharti	Comparative study of biogas production through anaerobic digestion of different organic matters
	Drishmita Borah	D/20/CE/108		
	Saheba Debbarma	D/20/CE/29		
	Gyati Nako	D/20/CE/35		
	Kebi Murtem	D/20/CE/36		
	Lawanshwa Sun	D/20/CE/18		
	Suhlue Swuro	D/21/CE/213		
8.	Marbom Nguki	D/20/CE/38	Dr. Mudo Puming	Waste to wall: Eco- Friendly Cement Bricks with PET Plastic Composite
9.	Deji Mara	D/20/CE/102	Ms. Y. Bidyalexmi Devi	Study of some selected Dry Solid Wastes as the partial Replacement for Aggregates in Concrete Bricks
	Lobsang Tsomu	D/21/CE/211		
	Shaniahskhem Suting	D/20/CE/17		
	Marmia Kadimean R Marak	D/20/CE/111		
	Samely Mulieh	D/20/CE/103		
10.	Geter Basar	D/20/CE/30	Dr. S. Baishya	Evaluation of RVS method for seismic vulnerability of typical residential buildings using finite element analysis
	Tapi Tony	D/21/CE/201		
	Mewowchanki Lyngdoh	D/20/CE/20		
	Abhisikta Biswas	D/20/CE/32		
	Jyoti prakash	D/21/CE/203		
11.	Kimngaitheng Haokip	D/20/CE/105	Dr. S. Mishra	Planning and design of lifeline building- A case study of typical hospital building
	Harshit	D/20/CE/06		
	Moji Riba	D/20/CE/101		
	Datamlin Kma	D/20/CE/01		
	Giovanni Donnavan War	D/21/CE/209		
12.	Ipi Gamlin	D/20/CE/37	Dr. Dipika Devi	Stabilization of Soil using Banana Leaf Ash
	James Mung Songput	D/20/CE/15		
	Kevileto Albert Koso	D/20/CE/25		
	PC Lalremchhungi	D/20/CE/110		
	Waikhom Jetlee Singh	D/20/CE/113		
13.	Pem Yangchin	D/20/CE/09	Dr. Ajanta Kalita	Biomedical waste: A sustainable approach to soil stabilization and a boon to the environment
	Likha Taha	D/20/CE/31		
	Vishwanath Kojjam	D/20/CE/16		
	Prakash Kumar Singh	D/20/CE/116		
	Hitilo Seb	D/20/CE/27		

**(a) M. Tech. (ESE) Projects completed:**

Sl. No	Name of Student	Roll No.	Name of the Supervisor	Title of the Dissertation
1.	Jumnya Koyu	MT/22/ESE/001	Dr. A. Bharti	GIS-Based Approach for Optimizing Municipal Solid Waste Collection System for Ward 11, Itanagar, Arunachal Pradesh
2.	Joram Tallo	MT/22/ESE/002	Mrs. Y. B. Devi	Segregation of Solid Waste in Zira Valley
3.	Kaveri Tajo	MT/22/ESE/003	Dr. R. K. Prasad	Simulation of Urban Drainage System of C Sector of Itanagar Township using Storm Water Management Model (SWMM)
4.	Ajay Bini	MT/22/ESE/004	Dr. M. Puming	A Study on Compost Preparation from Vegetable Waste, Cow dung with addition of Bulking Agents
5.	Landi Yasa	MT/22/ESE/005	Mrs. Y. B. Devi	Use of Bio-Enzymes Prepared from Fruit Wastes for Treatment of Grey Water from Subansari Hostel NERIST
6.	Amili Linggi	MT/22/ESE/006	Dr. A. Bharti	Study of Adsorption Property of Activated Carbon of Different Species of Bamboo in Arunachal Pradesh
7.	Ngurang Pania	MT/22/ESE/007	Dr. A. Bharti	Municipal Solid Waste Management in SOPO colony at Pare Hydro Electric Project (NEEPCO)
8.	Tuki Muang	MT/22/ESE/008	Mrs. Y. B. Devi	Analysis of The Effect of Bamboo Leaf Ash on Blended Cement Mortar
9.	Arpan Chetia	MT/22/ESE/009	Dr. M. Puming	Aerobic Composting of Waste from Banana Tree (<i>Musa Paradisiaca</i>)
10.	Boby Boruah	MT/22/ESE/011	Dr. S. Mishra	Recycling of waste rubber tyre in concrete
11.	Rupnara Yeasmin Khann	MT/22/ESE/012	Dr. Y. Tamut	A study on concrete cube by partial replacing Aggregate with Betelnut Fiber & Plastic Fiber in Different Proportion
12.	Wangpho Dada	MT/22/ESE/013	Dr. M. Puming	A Comparative Study of Natural Coagulants in Turbidity Treatment of a Surface Water Source in Nirjuli
13.	Taro Suniya	MT/22/ESE/014	Dr. Ajay Bharti	Qualitative And Quantitative Analysis Of Different Capacity Air Conditioner Condensate In Arunachal Pradesh
14.	Pranjit Borah	MT/22/ESE/015	Dr. R. K. Prasad	Hydrodynamic Modeling of the Subansiri River Using HEC-RAS 6.4

(b) M. Tech. (GTE) Projects Completed

Sl No.	Name of students	Roll No.	Supervisor	Title of Dissertation
1.	NABAM TADAR	MT/22/GTE/001	Dr. Y. Tamut	Comprehensive Analysis of subgrade soil and Flexible pavement for sustainable infrastructure: A case study of NH 415
2.	MIHIN RINYA	MT/22/GTE/002	Dr. Y. Tamut	Utilisation of Mesua ferrea seed shell ash (MFSSA) as pozzolanic material by partial replacement to cement in mortar



3.	KUNCHOK TASHI	MT/22/GTE/005	Dr. A. Kalita	Assessment on strength variation of Soil stabilized using Bioenzyme.
4.	LIPI ORI	MT/22/GTE/006	Dr. D. Pal	Analysis of rutting in flexible pavement
5.	YORUM TATU	MT/22/GTE/007	Dr. Y. Tamut	Impact Assessment of cassava peel ash on silty sand soil.
6.	TSERING PETON	MT/22/GTE/008	Dr. D. Devi	Numerical investigation of Bearing capacity of strip footing on top of a slope
7.	LOUKRAKPA VICTORIA DEVI	MT/22/GTE/009	Dr. S. Baishya	Bearing Capacity analysis of pile foundation in layered soil using non-linear finite element analysis.
8.	PEJUM BASAR	MT/22/GTE/010	Dr. S. Baishya	Bearing capacity of shallow foundation on slopes subjected to Vertical load
9.	YOWA YANIAM	MT/22/GTE/011	Dr. A. Kalita	Assessment on the effect of silica fume on stabilization of peat soil with Areca fiber as Reinforcement
10.	TADGI PERME	MT/22/GTE/012	Dr. A. Kalita	Analysing the performance of GGBS and marble powder as stabilizers in enhancing geotechnical properties of peat soil.
11.	AJUK GIDA	MT/22/GTE/013	Dr. A. Kalita	Evaluation of the Efficacy of Biopolymer and Eggshell Powder as a Soil Stabilizers

(d) PhD Degree Awarded

Sl. No	Name	Regn. No.	Roll No.	Date of Notification	Supervisor	Title of the Thesis
1.	MRS. MARTINA GUMSAR SORUM	518/035	PhD/FT/18/CE/06	28.11.2024	Dr. Ajanta Kalita	EFFECTS OF BIO-CEMENTATION ON ENGINEERING PROPERTIES OF SOIL WITH AND WITHOUT RICE HUSK ASH
2.	MS. TINU LUSI	519/002	PhD/FT/19/CE/01	06.11.2024	Prof. S. Mishra	PERFORMANCE EVALUATION OF CEMENT MORTAR MIXED WITH CONSTRUCTION AND DEMOLITION WASTE
3.	MS. JENI BHATTACHARJEE	518/032	PhD/FT/18/CE/03	14.08.2024	Prof. S. Mishra	GEOSPATIAL ASSESSMENT AND IDENTIFICATION OF HIERARCHICAL URBAN CENTRES IN FRINGE AREAS OF GUWAHATI METROPOLITAN REGION, ASSAM, INDIA
4.	LITAN BARMAN	518/043	PhD/PT/18/CE/04	Yet to be notified, Oral Defense was held on 17/03/2025	Prof. R. K. Prasad	IMPACT OF CLIMATE CHANGE AND LAND USE LAND COVER CHANGE ON STREAMFLOW OF PERIYAR RIVER BASIN USING HYDROLOGICAL MODEL

**4.3.5 Short term courses/seminars/workshops/conferences organized in the Department**

Sl. No	Title of the program	Duration	Collaboration Organisation	Date of conducting the program	Organiser/ Coordinator
1.	International Conference on Computer-Aided Modeling for the Sustainable Development of Smart Cities (CAMSSC),	4 days	Sponsored by: Anusandhan National Research Foundation (ANRF)	November 27–30, 2024	Organizing Chair: Dr. D. Devi and Dr. D. Pal, Organizing Secretary: Dr. N. G. Sorum
2.	10th International Conference Computers, Management & Mathematical Sciences (ICCM) 2024	2 days	California State University, San Bernardino, USA (CSUSB) and International Association of Academicians (IAASSE)	26th-27th July, 2024	Organizing chair: Dr. Ajanta Kalita
3.	Training Programme on “Concrete Mix Design” for APPWD Engineers.	2 days each for three batches	Sponsored by APPWD	(i) July 20-21, 2024. (ii) July 27-28, 2024, and (iii) Aug. 10-11, 2024.	Organizer: Prof. S. Mishra
4.	Empowering Women Through Vermicomposting: Entrepreneurship and Skill Development Training Program	5 days	NIT Arunachal	26th Feb-2nd March, 2025	Convenor: Dr. Ajanta Kalita
5.	Field visit to NEEPCO as an organizing member	1 day		June 2024	Dr. Ajanta Kalita

4.3.6 Summer Internship Training Completed by the B.Tech. students of other Institutes in the Department

Sl. No	Duration	Collaboration Institute	Date of conducting the program	Supervisor
1.	5 Weeks	Jorhat Engineering College	From 11/06/2024 to 14/07/2024	Dr. Yamem Tamut
2.	4 weeks	Jorhat Engineering College	From 15/06/2024 to 14/07/2024	Dr. Dipika Devi
3.	4 weeks	Jorhat Engineering College	From June 13 to July 12, 2024	Dr. Ajanta Kalita
4.	5 Weeks	Dhemaji Engineering College	From 11/06/2024 to 14/07/2024	Dr. Yamem Tamut
5.	4 weeks	Dhemaji Engineering College	From June 13 to July 12, 2024	Dr. Ajanta Kalita

4.3.7 Short-term courses/Seminars/Workshops/Conferences/Training programs attended by the faculty

1.	Dr. Dipika Devi attended and successfully completed a 5-day faculty leadership development programme titled: “Nurturing Future Leadership Programme” from 03/06/2024 to 07/06/2024, under the aegis of the Malaviya Mission Teacher Training Programme (MMTTP), Ministry of Education.
2.	Dr. Dipika Devi attended the 20 th Regional Co-ordination Committee (RCC) meeting of NIH - NERC, Guwahati held at Guwahati on 06 th February 2025.
3.	Dr. Yamem Tamut attended and successfully completed a one-week Faculty Development Program on Advances in Transportation and Geotechnics for Future Infrastructure from 01 st – 06 th , April 2024, jointly organized by the Department of Civil Engineering, GMR Institute of Technology, Rajam Andhra Pradesh and Kongu Engineering College, Perundurai, Tamil Nadu.
4.	Dr. Yamem Tamut attended and successfully completed a one-week Faculty Development Program on Advances in Geotechnical Engineering from 30 th April- 4 th May 2024, organized by Jaypee University of Information Technology, Wakhnaghat, Solan, Himachal Pradesh, India.
5.	Dr. Yamem Tamut attended and successfully completed a one-week Faculty Development Program on NEP 2020 Sanitization and Orientation Programme under Malaviya Mission Teacher Training Programme (MMTTP) of University Grants Commission (UGC) organized by UGC-Malaviya Mission Teacher Training Centre, D D U Gorakhpur University, Gorakhpur from 27.05.2024 to 05.06.2024.



6.	Dr. Yamem Tamut attended and successfully completed a 3-days Faculty Development Program on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) at North Eastern Regional Institute of Science and Technology, Itanagar from 7th February to 9th February 2025.
7.	Dr. Yamem Tamut attended and successfully completed a one-week Faculty Development Program on AI & ML for smart and sustainable solutions in Civil Engineering, organized by Sasi Institute of Technology and Engineering Tadepalligudem, AP in association with Indian Geotechnical Society Tadepalligudem chapter from 18/03/2025 to 22/03/2025.
8.	Dr. Yamem Tamut has participated and successfully completed a one-week online Faculty Development Programme on “Harnessing the Power of AI: A Comprehensive FDP for Faculty and Researchers” organized by E&ICT Academy IIT Guwahati held from 24 th March – 28th March 2025 in association with North Eastern Regional Institute of Science and Technology, Nirjuli, Arunachal Pradesh.
9.	Dr. Mudo Puming Participated and successfully completed a 1-day online workshop on “Patent filing and Prior Art Search Mechanisms: A Practical Approach” conducted on 21st September 2024, organized by IISc Bangalore, Ministry of Education.
10.	Dr. Mudo Puming Participated and successfully completed a 5-days online workshop on “Interdisciplinary Approaches in Geotechnical and GeoEnvironmental Engineering” 17th to 21st February 2025, organized by HBTU, Kanpur.
11.	Dr. Ajay Bharti attended and successfully completed the five-days Faculty and Officers Training Programme on “Awareness on Quality in NIRF and NBA” at NERIST, during 16 th to 20 th January 2024.
12.	Yumnam Bidalaxmi Devi attended and successfully completed the five-days Training Programme on “Application of IoT in Agriculture”, at NERIST organized by NIELIT in association with NERIST, from 08/04/2024 to 12/04/2024
13.	Dr. Ajanta Kalita participated and successfully completed a one-week online Faculty Development Programme (FDP) titled "Geo-Informatics in Disaster Management" held during 18-22 June 2024 organised by Department of Civil Engineering Jorhat Engineering college, Jorhat, Assam.
14.	Dr. Ajanta Kalita participated and successfully completed a one-week online Faculty Development Programme (FDP) titled "Recent Advances in Structural Engineering and Material Science" held during 25-29 June 2024 organised by Department of Civil Engineering Jorhat Engineering college, Jorhat, Assam.
15.	Dr. Ajanta Kalita participated and successfully completed a one-week FDP titled “Awareness on Quality assessment in NIRF and NBA” 16th to 20th January 2024, organized by NERIST
16.	Prof. S. Mishra attended 4th International Conference on Engineering and Agro-Industrial Technology (iCEAT2025), University of the Philippines Los Banos, Laguna, Philippines, March 12-15 and presented a paper entitled: "Compressive Strength and Binder Intensity Prediction in Concrete Mixes using a Customised Neural Network with Explainability."
17.	Dr. Dibyendu Pal attended 4th International Conference on Engineering and Agro-Industrial Technology (iCEAT2025), University of the Philippines Los Banos, Laguna, Philippines, March 12-15 and presented a paper entitled: "Examining Vehicular Accident Pattern Along National Highway 66 in Alappuzha District, Kerala, India."
18.	Dr. Yammer Tamut attended 10th International Conference on Computers, Management & Mathematical Sciences (ICCM2024) at North Eastern Regional Institute of Science and Technology, Nirjuli, Arunachal Pradesh, India from 26-27 July 2024 and presented a paper entitled: “Impact of Vehicular Air Pollution on Human Health: A Comprehensive Review”
19.	Dr. Yammer Tamut attended 10th International Conference on Computers, Management & Mathematical Sciences (ICCM2024) at North Eastern Regional Institute of Science and Technology, Nirjuli, Arunachal Pradesh, India from 26-27 July 2024 and presented a paper entitled: " Optimizing Urban Traffic Flow Through Data-Driven Approaches: A Comprehensive Review"
20.	Dr. Ajanta Kalita attended 10th International Conference Computer Management and Mathematical Sciences (ICCM 2024) held at NERIST during 26th July-27th July 2024 and presented a paper entitled “ Effect of freezing and thawing on the mechanical and micro structural properties of soil mix with binders: a review”,.
21.	Dr. Ajanta Kalita attended 10th International Conference Computer Management and Mathematical Sciences (ICCM 2024) held at NERIST during 26th July-27th July 2024 and presented a paper entitled “Bio-cementation Approaches for Soil Restoration: A Review”

**4.3.8 Publications in Referred Journals:**

Sl No.	Publication Details	Indexing
1.	Sarkar, Raja, Devi, Dipika , and Tamang, S. K. (2024). "Experimental Studies on Fiber Reinforced Soil Stabilized with Lime and Fly Ash", <i>International Journal of Integrated Engineering</i> , Vol. 16 (5), P: 428-443, ISSN: 2229-838X e-ISSN: 2600-7916. (ESCI, Scopus) IF=0.85, CiteScore=1.4, September 2024	ESCI
2.	Muni, Taku, Devi, Dipika , and Baishya, Sukumar (2025). "Parametric Study of Lateral Earth Pressure on Rigid Retaining Walls Using ABAQUS", <i>SSRG International Journal of Civil Engineering, Volume 12 Issue 1, P: 7-14, February 2025</i>	Scopus
3.	Sarkar, Raja, Devi, Dipika , and Tamang, S. K. (2025). "Exploring the Potential of Cement-Stabilized Fiber-Reinforced Soil in Slope Stability", <i>SSRG International Journal of Civil Engineering, Volume 12 Issue 1, P: 89-96, February 2025</i>	Scopus
4.	Das, D., and Pal, D. (2025). "Estimation of Maximum Tensile Stress on Rigid Pavement for Varying Surface Temperature." <i>Journal of Engineering and Sustainable Development</i> , 29(02), 260-269. DOI: https://doi.org/10.31272/jeasd.2796 March 2025	Scopus
5.	Tado, N., Medhajit, S., and Pal, D. (2025) "Forecasting California Bearing Ratio (CBR) of Soil Using Machine Learning Algorithms: A Review." <i>Research on Engineering Structures and Materials</i> , 11(1), 383-398. DOI: http://dx.doi.org/10.17515/resm2025-623ml0115rv February 2025	Scopus
6.	Sorum, N. G., and Pal, D. (2024). "Modeling Driver Injury Severity Using Machine Learning Algorithms." <i>Canadian Journal of Civil Engineering</i> , 51(11), 1302-1316. DOI: https://doi.org/10.1139/cjce-2023-0503 November 2024	SCI
7.	Sorum, N. G., and Pal, D. (2024). "Identification of the Best Machine Learning Model for the Prediction of Driver Injury Severity." <i>International Journal of Injury Control and Safety Promotion</i> , 31(3), 360-375, DOI: https://doi.org/10.1080/17457300.2024.2335478 April 2024	SSCI
8.	Sorum, N. G., and Pal, D. (2024). "Analysis of Influencing Factors on Driver Injury Severity: A Case Study of Arunachal Pradesh, India." <i>Advances in Transportation Studies</i> , 62, 89-110. April 2024	Scopus
9.	Kiron, B., & Prasad, R.K. (2025). Assessing Equity and Demand Satisfaction of an Intermittent Water Supply Using a Non-Iterative Implementation of EPANET 2.2: A Case Study of Itanagar Water Distribution Network. <i>SSRG International Journal of Civil Engineering</i> , 2025, 12(2), pp. 111–119.	Scopus
10.	Yigam, J., & Bharti, A. Mitigating River Pollution During Indian Festivals: The Efficacy of Artificial Idol Immersion Ponds as a Sustainable Solution. <i>SSRG International Journal of Civil Engineering</i> , 2025, 12(2), pp. 31–41.	Scopus
11.	Gyadi, T., Bharti, A. , Basack, S., & Lucchi, E. (2025). Comparative Analysis of Cow and Chicken Manure as Activators in Windrow Composting of Vegetable Waste. <i>Waste and Biomass Valorization</i> , 1-13. https://doi.org/10.1007/s12649-025-02893-1	Scopus
12.	Paksok, D., Kalita, A., & Ravi, K. (2025). Application of Biochar as a Sustainable Material for Soil Improvement and Contaminant Remediation-A Review. <i>SSRG International Journal of Civil Engineering</i> , 2025, 12(1), pp. 7–15.	Scopus
13.	Sorum, N. G., & Sorum, M. G. (2025). Evaluation of effects of risk factors on injury severity of single-vehicle accidents. In <i>Proceedings of the Institution of Civil Engineers-Municipal Engineer</i> (pp. 1-14). Emerald Publishing Limited. https://doi.org/10.1680/jmuen.24.00047	Scopus
14.	Yaniam Y. & Kalita A. (2025). Stabilization of Peat soil with Silika Fume and Areca Fiber as Reinforcement "An experimental Investigation". <i>SSRG International Journal of Civil Engineering</i> , 12(3), pp. 1-15.	Scopus
15.	Singh N. K. & Kalita A. (2025). An Art of Review of Improving Soil Strength Using Microbes. <i>SSRG International Journal of Civil Engineering</i> , 12(3), pp. 112-125.	Scopus
16.	Gyadi, T., Bharti, A. , Basack, S., Kumar, P., Lucchi, E. (2024), "Influential factors in anaerobic digestion of rice-derived food waste and animal manure: A comprehensive review", <i>Bioresource Technology</i> , 413 (2024) 131398.	SCI
17.	Chukhu N., Bharti A. (2025). Life Cycle Assessment of Potential Municipal Solid Waste Management Practices for Itanagar City, India. <i>SSRG International Journal of Civil Engineering</i> , 12(3), pp. 150-161. https://doi.org/10.14445/23488352/IJCE-V12I3P114	Scopus



18.	Linggi N., Bharti A. , & Singh S. S. (2025). Quantification and Dynamics of Mesua Ferrea Leaf Litter in Avenue Plantation for a Sustainable Management Strategy. SSRG International Journal of Civil Engineering, 12(3), pp. 207-212. https://doi.org/10.14445/23488352/IJCE-V12I3P120	Scopus
19.	Gyadi, T., Bharti, A. , Basack, S., Kumar, P., & Lucchi, E. (2024). Influential factors in anaerobic digestion of rice-derived food waste and animal manure: A comprehensive review. Bioresource Technology, 131398. https://doi.org/10.1016/j.biortech.2024.131398	Scopus
20.	Kalita, A., Yangchin, P., Kojiam, V., & Rigia, J. (2024). Biomedical Waste Utilization in Soil Stabilization: Merging Waste Management and Sustainable Engineering. International Journal of Civil Engineering 11(12):64-68, https://doi.org/10.14445/23488352/IJCE-V11I12P106	Scopus
21.	Kalita, A., Singh, N.K., Paksok, D., & Tashi, K. (2024). Effect of Enzyme-Based Soil Stabilization: A Review. SSRG International Journal of Civil Engineering, 2024, 11(12), pp. 94–101.	Scopus
22.	Rigia, J., & Kalita, A. (2024). Enhancing Weak Soil Strength in an Eco-friendly and Sustainable Manner: Reusing Waste from Indigenous Bamboo Dwellings in Arunachal Pradesh. Journal of The Institution of Engineers (India): Series A, 105(4), 819-834. https://doi.org/10.1007/s40030-024-00825-1	Scopus
23.	Kalita, A., & Elangbam, T. (2024). Assessment on Effectiveness of Geopolymer Stabilization of Arunachal Pradesh's Peat Soil Reinforced with Coir Fiber: An Experimental Study. Indian Geotechnical Journal, 1-15. https://doi.org/10.1007/s40098-024-01100-7	Scopus
24.	Rinya, M., Tamut, Y., & Nyokum, T. (2024). Utilization of Mesua Ferrea Seed Shell Ash (MFSSA) as Pozzolanic Material by Partial Replacement to Cement in Mortar. SSRG International Journal of Civil Engineering, 2024, 11(8), pp. 83–92.	Scopus
25.	Nyokum, T., & Tamut, Y. (2024). Assessing the Impact of Miscanthus Sinensis on Soil Strength Parameters and its Role in Flood Erosion Control. SSRG International Journal of Civil Engineering, 2024, 11(8), pp. 39–45.	Scopus
26.	Taba Nyokum, Yamem Tamut, "IoT in Civil Engineering: A Review", ALOCHANA JOURNAL, (ISSN NO:2231-6329) VOLUME 13 ISSUE 7 2024	UGC Approved
27.	Tongbram A Singh, Puming M "A Critical Analysis of Terrestrial Weed Control: Utilizing Composting and Anaerobic Digestion for Managing <i>Chromolaena odorata</i> " IJISRT Vol.9, Issue 5, May 2024, ISSN No. 2456-2165.	UGC Approved
28.	Jumbom R, Puming M, "A Review on Enhancing Biogas Production and Process Stability in Anaerobic Digestion through Biochar Integration" in Volume 13, Issue II, February 2025, ISSN: 2321-9653, IJRASET, p no. 555 to 562.	UGC Approved
29.	Akoijam Jayenta Singh, Tongbram A Singh, Puming M "Composting of Phumdi biomass using saw dust as bulking agent" in Volume 15, Issue 3, CrossRef DOI: 10.30574/ijrsra.2025.14.3.0818, March 2025, eISSN: 2582-8185, IJSRA, p no. 1312-1319.	UGC Approved
30.	Linggi, N., Bharti, A. , Singh, S. S. (2024), "Sustainable Management Technique for Recalcitrant Leaf Litter of Mesua ferrea L. in Avenue Plantations", Current World Environment, ISSN: 0973-4929, Vol. 19, No. (1) 2024, Pg. 174-184	UGC CARE

4.3.9 Research Paper presented at the Conferences:

Sl.No.	Paper & Conference details
1.	Pal, D. , and Sreenivasulu, S. (2025). "Examining Vehicular Accident Pattern Along National Highway 66 in Alappuzha District, Kerala, India." 4th International Conference on Engineering and Agro-Industrial Technology (iCEAT2025), University of the Philippines Los Banos, Laguna, Philippines, March 12-15.
2.	Prof. S. Mishra et al. (2025) "Compressive Strength and Binder Intensity Prediction in Concrete Mixes using a Customised Neural Network with Explainability." 4th International Conference on Engineering and Agro-Industrial Technology (iCEAT2025), University of the Philippines Los Banos, Laguna, Philippines, March 12-15.
3.	Yamem Tamut (2024), "Impact of Vehicular Air Pollution on Human Health: A Comprehensive Review", The 10th International Conference on Computers, Management & Mathematical Sciences (ICCM2024) at North Eastern Regional Institute of Science and Technology, Nirjuli, Arunachal Pradesh, India from 26-27 July 2024.



4.	Yamem Tamut (2024), "Optimizing Urban Traffic Flow Through Data-Driven Approaches: A Comprehensive Review", The 10th International Conference on Computers, Management & Mathematical Sciences (ICCM2024) at North Eastern Regional Institute of Science and Technology, Nirjuli, Arunachal Pradesh, India from 26-27 July 2024.
5.	Tongram A Singh, Puming M. "A Review on Phytoremediation of Contaminated Soils by using <i>Chromolaena Odorata</i> , an Invasive Terrestrial Weed", International conference on Environment, Organized by Centre for the Environment, held at IIT Guwahati during December 9 – 11, 2024.
6.	Jumbom R, Puming M. "Integrating Algae Based Substrate with Advanced Anaerobic Digestion for Improved Biogas Yields" poster presentation in the DST purse sponsored National conference (NCSPER – 2025) organized by Department of Energy and Environment, Thapar institute of Engineering & Technology, Patiala Punjab to be held on February 19 to 20, 2025.
7.	Borah, P., Prasad, R. K. , and Goswami, G. (2024). "Hydrodynamic behaviour of the Subansiri River in Arunachal Pradesh, India using HEC-RAS 6.4", 29th International Conference on Hydraulics, Water Resources, River and Coastal Engineering, HYDRO-2024, December 18-20, 2024, Central Water and Power Research Station, Pune.
8.	Kiron, Bini and Prasad, R. K. (2024). "Hydraulic analysis of intermittent and continuous water supply systems: a case study of Itanagar township", 4 th International Conference on River Corridor Research and Management (RCRM) 2024, March 7-9, 2024, IIT Guwahati and IIT Jammu.
9.	Barman, L. and Prasad, R. K. (2024). "Streamflow Simulation and Impact of Climate Change on Streamflow in Periyar River Basin, Kerala, India using Soil and Water Assessment Tool", 4 th International Conference on River Corridor Research and Management (RCRM) 2024, March 7-9, 2024, IIT Guwahati and IIT Jammu.
10.	Dutta. Joydeep, Prasad, R. K. and Barbhuiya, A. K. (2024). "Embankment as a Disaster Reduction Measures: A Case Study of Hailakandi District of Barak Valley, Assam", International Conference on " Natural Disaster: Risk Analysis, Management and Mitigation" (NDRAMM - 2024), March 23-24, 2024, at NIT Silchar.
11.	Goswami, G., Prasad, R. K. , and Borah, P. (2024). "Rainfall Trend Analysis of Papumpare District in Arunachal Pradesh, India", International Conference on Future of Water Resources, January 18-20, 2024, IIT Roorkee.
12.	Nisha S. and Kalita A. (2024) "Effect of freezing and thawing on the mechanical and micro structural properties of soil mix with binders: a review", 10th International Conference Computer Management and Mathematical Sciences (ICCM 2024).
13.	Nabam J., and Kalita A. (2024) Bio-cementation Approaches for Soil Restoration: A Review, 10th International Conference Computer Management and Mathematical Sciences (ICCM2024)
14.	Nisha S. and Kalita A. (2024) "Sustainable Use of Bio Wastes as a Stabilising Agent in Stabilisation of Expansive Soil: A Review" International conference on energy and sustainability, Ibra Sultanate of Oman
15.	Paksak D., Kalita A. and Ravi K. (2024) "A Review on the Impact of Biochar in Soil Stabilization for Potential Application in Bioengineered Structures" International conference on energy and sustainability, Ibra Sultanate of Oman
16.	Martina G. S. and Kalita A. (2024). "Influence of bio-cementation and Rice Husk Ash on California Bearing Ratio of silty sand soil". International conference on energy and sustainability, Ibra Sultanate of Oman
17.	Yaniam Y., Tachi K., Tadgi P. and Kalita A. (2024) "A review on Comparative Study of Using Silica Fume and Areca Fibre on soil stabilisation" International conference on energy and sustainability, Ibra Sultanate of Oman
18.	Jamir, Aowati and Devi, Dipika (2024) "Analysis of Bamboo Reinforced Unpaved Road Using ABAQUS" International Conference on 'Computer-Aided Modeling for the Sustainable Development of Smart Cities', Nov. 27 – 30, 2024 at NERIST, Itanagar, Arunachal Pradesh, India.
19.	Yigam, J., & Bharti, A. (2024) "A Review of Heavy Metals Contamination in Drinking Water, Its Effect on Human Health and Treatment Techniques", in the 10 th International Conference on Computers, Management & Mathematical Sciences (ICCM2024) at NERIST from 26-27 th July 2024.
20.	Nabam J., Bharti, A. and Kalita A. (2024) Bio-cementation Approaches for Soil Restoration: A Review, 10th International Conference Computer Management and Mathematical Sciences (ICCM2024)

**4.3.10 Publications in Book/Book Chapters:**

Sl. No.	Publication details
1.	Omeme Paron, Longjam Riccirani Chanu, Jeelek Rigia, Marjom Ete & Ajanta Kalita (2025), "Experimental study on stabilization of clayey soil using Banana Fiber and Lime", Lecture Notes in Civil Engineering, volume 355, pp 9-18.
2.	Omeme Paron, Longjam Riccirani Chanu, Jeelek Rigia, Marjom Ete & Ajanta Kalita (2025) "Influence of Banana Fibers and Lime on California Bearing Ratio of Clayey Soil" Lecture Notes in Civil Engineering, volume 355, pp 1-8
3.	Jeelek Rigia & Ajanta Kalita (2025) "Comparative Study of Different Recycle Wastes and Fibre for Weak Soil Stabilization: A Review", Lecture Notes in Civil Engineering, volume 419, pp 166-177.
4.	Marjom Ete, Moni Mishra, Ravino Mekro, Lensar Jamir, Taniya Oniya, Jeelek Rigia & Ajanta Kalita (2025) Expansive soil Improvement using waste materials: A review, Lecture Notes in Civil Engineering, volume 419, pp 113-122.
5.	Marjom Ete, Moni Mishra, Ravino Mekro, Lensar Jamir, Taniya Oniya, Jeelek Rigia & Ajanta Kalita (2024) "Experimental Investigation for stabilization of Expansive soil by using waste materials – Brick dust and Eggshell Powder" Lecture Notes in Civil Engineering, volume 508, pp 43-53.

PATENTS

Sl. No.	Patent Details
1.	Tongram Ashis Kumar Singh, Dr. Mudo Puming , H D Singh and S K Chhetry, "Manually Operated Rotary Drum Composting Unit" Design Patent no. 427172-001, dated 15/8/2024, The Patent Office, Government of India.
2.	Neha, Dr. Sudisht Mishra , Dr. Rajeev Goel, "Concrete Composition and Method of Preparation Thereof", Patent No. 565186, dated 16/04/2025, The Patent Office, Government of India.

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Sl. No.	Author Name	Class of work and Diary No	Title of the work
1.	Dipika Devi	Computer and Software Diary No: 1615/2025-CO/SW	Elastoplastic Analysis of Modified Cam-Clay Model Using Non-linear FEM (Language: C++) (Filed and in final stage)

4.3.11 Interaction of faculty/Department with outside agencies/institutes

1.	Prof. S. Mishra is the Chairman, NESIDS.
2.	Prof. Ajay Bharti is the Nodal Officer of STA (State Technical Agency) of PHE & WS Department, Government of Arunachal Pradesh.
3.	Prof. Ajay Bharti is the Member, State Level Expert Appraisal Committee (SEAC), Arunachal Pradesh, from 28/01/2025 to 27/01/2028.
4.	Prof. Ajay Bharti is the member of State Pollution Control Board, Arunachal Pradesh
5.	Prof. Dipika Devi is a member of the Building Construction Committee of Rajiv Gandhi University.
5.	Prof. Dipika Devi became the Fellow of the Institute of Engineers India
6.	Dr. Ajanta Kalita was an external examiner for the M.Tech. (CE) Project evaluation of the students of Tezpur University.
7.	Dr. Ajanta Kalita was a reviewer of the proposed engineering B.Tech. program syllabus of Tezpur University.



4.3.12 Consultancy Projects Undertaken

The details of the consultancy services tendered by the Department are as follows:

Sl. No	Agencies	Title of consultancy project/Work	Amount (Rs.)
1.	M/S ADDT Enterprises, Itanagar,	28 days Cube Strength test	5,900/-
2.	M/S N. T. Agency, Itanagar (A.P.),	Compressive Strength of Cement Concrete Cubes	5,900/-
3.	Kanto Melo, KBM Enterprise, Pashighat, Arunachal Pradesh	Standard Proctor test, UCS test, Liquid limit test and Plastic limit test for soil for PMGYS Road construction	33,276/-
4.	The Assistant Engineer, CPWD, Itanagar, Arunachal Pradesh	Design of Mix M25 grade concrete, for the construction of the Administrative Building (G+3) for RGU	74,340/-
5.	Mr. Tanya Taji, Tazee Engineering and Infratech Solution, Nirjuli, Arunachal Pradesh	Cube testing of CLC block 28 days	7,522.50/-
6.	The Area Manager (CIVIL), NEC, Coal India Limited, Margherita- 786181, Assam	Compressive strength of Concrete cube and aggregate for the construction of the railway platform and the RCC slab at the Railway siding of Tilak Colliery	21,240/-
7.	The Area Manager (CIVIL), NEC, Coal India Limited, Margherita- 786181, Assam	Compressive strength of Concrete cube and aggregate for the construction of the railway platform and the RCC slab at the Railway siding of Tilak Colliery	21,240/-
8.	Nyatom Taji, Tazee Engineering and Infratech Solution, Nirjuli-II, Arunachal Pradesh	Engineering Lab Testing of CLC Cube	10,561/-
9.	Star Cement by Amit Ranjan	Engineering Lab Testing of CLC Cube by Star Cement	17,346/-
10.	M/S. EKA Enterprises, Near SBI, Doimukh Papumpare, Arunachal Pradesh.	Soil testing for 50m span bridge (BUG) construction over Sippi River	1,18,177/-

4.3.13 Achievement of students

(a) Name of the students who have gone for Industrial Training in June 2024

Sl. No.	Roll No.	Name of Students	Email ID	Phone No.	Office
1.	D/21/CE/038	Khoda Naku	zabuzaraid77@gmail.com	8259808936	PWD ZIRO
2.	D/21/CE/039	Kabom Panyang	kabompanyang1@gmail.com	9366665355	PWD ZIRO
3.	D/21/CE/108	Joseph Venia	josephvenia332@gmail.com	9612666238	PWD ZIRO
4.	D/21/CE/114	Joana Rikchi D Sangma	joanasangma4@gmail.com	9863011854	PWD ZIRO
5.	D/21/CE/110	Sanjay Rai	srai.official01@gmail.com	9863109302	PWD ZIRO
6.	D/21/CE/040	Bengia Perina	perinabengia43511@gmail.com	9862285171	PWD Naharlagun
7.	D/21/CE/042	Babu Tech Tara	techitara3078@gmail.com	8259024632 9362167174	PWD Naharlagun
8.	D/21/CE/033	Kago Tayung	kagotayung.kt@gmail.com	8414989398	PWD Naharlagun
9.	D/21/CE/041	Papung Diri	kezenex118@gmail.com	7005938827	PWD Naharlagun
10.	D/22/CE/210	Dug Niting	dugniting@gmail.com	6033856531	PWD Naharlagun
11.	D/22/CE/213	Ravi Ranjan Mishra	ravimishra243600@gmail.com	7086908972	PWD Naharlagun
12.	D/22/CE/205	Talling Taku	takutalling907@gmail.com	8798050417	PWD Naharlagun
13.	D/21/CE/013	Vanlalhriati Fanai	shiaty20@gmail.com	8731835476	PWD Kohima



14.	D/21/CE/018	Imyangluba O Jamir	yanglujamir121@gmail.com	6009086119	PWD Kohima
15.	D/21/CE/112	Kakito Wotsa	kakitowotsa5657@gmail.com	8794479686	PWD Kohima
16.	D/22/CE/214	Chemewe Akami	chemeweakami@gmail.com	9366119785	PWD Kohima
17.	D/21/CE/019	Ketoreno Neikha	ketorenoneikha@gmail.com	8794523240	PWD Kohima
18.	D/21/CE/020	Kitoka Achumi	www.kitoka123@gmail.com	8787757765	PWD Kohima
19.	D/22/CE/206	Thenudiu Sachu	thenudisachu@gmail.com	9856683025	PWD Kohima
20.	D/21/CE/010	Steffi Kharwanniang	steffilivikharwanniang@gmail.com	8787844839	PWD Shillong
21.	D/22/CE/209	Malvareen Sohtun	malvareensohtun01@gmail.com	8256925709	PWD Shillong
22.	D/21/CE/011	Nikito C Khonglah	nikitokhonglah@gmail.com	9366966192	PWD Shillong
23.	D/21/CE/016	Laltanngheta	llaltanngheta@gmail.com	8413023595	PWD Mizoram
24.	D/22/CE/202	R. Lalremsiama	lalremsiama7947@gmail.com	7085939910	PWD Mizoram
25.	D/21/CE/007	Hijam Thoithoi Devi	thoihijamhijam@gmail.com	6009312542	PWD Imphal
26.	D/21/CE/006	Ramcy Rajkumar	ramcyrajkumar45@gmail.com	9366529362	PWD Imphal
27.	D/22/CE/212	Ch Wahajuddin	wahazz055@gmail.com	9383213646	PWD Imphal
28.	D/21/CE/103	Bidyasagar Yumkham	yumkhambidyasagar@gmail.com	9863821982	PWD Imphal
29.	D/21/CE/008	Sudarshan Nongthombam	sudarshannong@gmail.com	7085598384	IIT Guwahati
30.	D/21/CE/005	Mashunyui Keishing	mashunyuikeishing@gmail.com	6909672650	IIT Guwahati
31.	D/21/CE/004	Joydip Kakoti	joydipnerist35@gmail.com	9612333899	IIT Guwahati
32.	D/21/CE/104	Mehbub Alom	hassanmehbub101@gmail.com	9365909867	IIT Guwahati
33.	D/21/CE/106	Precious Star Mawrie	pstarmawrie@gmail.com	8119091915	IIT Guwahati
34.	D/21/CE/029	Udittri Kashyap	udittrikashyap@gmail.com	7086917708	IIT Guwahati
35.	D/21/CE/009	Shabanroi Pariong	shabanroi2001@gmail.com	7005128915	IIT Guwahati
36.	D/21/CE/002	Borsa Boruah	boruahb898@gmail.com	9387346770	IIT Guwahati
37.	D/21/CE/025	Shubham Kumar	kumarshubham22333@gmail.com	9122390924	IIT Guwahati
38.	D/22/CE/203	Pradeep Pradhan			PWD Sikkim
39.	D/22/CE/201	Naqib Ahmed Barbhuiya	naqibbarbhuiya09@gmail.com	6000749913	PHED Silchar
40.	D/22/CE/208	Sownak Saha	sahasownak123@gmail.com	8414061040	PWD Tripura
41.	D/21/CE/023	Printan Chakma	natnirp08@gmail.com	8729939622	PWD Tripura
42.	D/21/CE/034	Samudra Raj Baruah	samudraright@gmail.com	8822915080	IOCL Digboi
43.	D/21/CE/003	Pura Mallo	puramallo83@gmail.com	9366384819	MeECL Shillong
44.	D/22/CE/204	David Charu Abulah	charukasatai@gmail.com	9366604730	MeECL Shillong
45.	D/21/CE/028	Arsis Sarma	manassarma20000@gmail.com	6900503866	Assam Petro Chemicals
46.	D/21/CE/027	Gobinda Boro	gobinda12g@gmail.com	8729842677	Assam Petro Chemicals
47.	D/21/CE/026	Lokendra Shivam	lokendrashivam72@gmail.com	7076030010	Assam Petro Chemicals
48.	D/22/CE/211	Kaushik Kumar	k7255973793@gmail.com	7255973793	NTPC NABINAGAR, BIHAR
49.	D/21/CE/116	Shrishti Raj	artiraj41024@gmail.com	6287780655	IIT MADRAS
50.	D/21/CE/117	Ravi Raj	rr664112@gmail.com	8210792920	IIT MADRAS
51.	D/21/CE/118	Bhaswati Bora	bhaswatibora25@gmail.com	7099482869	IIT MADRAS
52.	D/21/CE/043	Kobom Ronya	takoronya66@gmail.com	7085696566	PHED Itanagar
53.	D/21/CE/119	Genom Pertin	genompertin1@gmail.com	9362812525	PHED Itanagar



54.	D/21/CE/024	Shanjana Tripura	shanjanaatripura98@gmail.com	8413813048	PHED Itanagar
55.	D/21/CE/111	Chasam Wangsu	chasamwangsul19@gmail.com	9362958015	PHED Itanagar
56.	D/21/CE/035	Suzani Devi	suzani.devi@gmail.com	6900686082	PHED Itanagar
57.	D/21/CE/028	Yakhili Debbarma	yakhilidebbarma353@gmail.com	8413821754	PHED Itanagar
58.	D/21/CE/044	Gegong Leriak Tamin	nagongleriak26@gmail.com	8259047487	PHED Itanagar
59.	D/21/CE/037	Aarti Kumari	civilianaart@gmail.com	9957448180	PHED Itanagar
60.	D/22/CE/207	Shivam Sharma	shivam59232@gmail.com	9839353093	PHED Itanagar
61.	D/21/CE/113	Lalrinawmi Ralte	lalrinawmiralte39@gmail.com	6909626385	PHED Itanagar
62.	D/21/CE/105	Vijay Blange	vijayblangeofficial@gmail.com	8732830198	PHED Itanagar

(b) Placement during April 01, 2024 - March 31, 2025

Sl. No.	Name of the Student	Organization	Post Held
1	BHASWATI BORA	Express Roadways	Sales
2	BIDYASAGAR YUMKHAM	ORC Engineering Pvt Ltd	Junior Engineer/ Field Engineer
3	SHIVAM SHARMA	ORC Engineering Pvt Ltd	Junior Engineer/ Field Engineer
4	ARSIS SARMA	ORC Engineering Pvt Ltd	Junior Engineer/ Field Engineer
5	SOWNAK SAHA	ORC Engineering Pvt Ltd	Junior Engineer/ Field Engineer
6	ARSIS SARMA	RDC Concrete (India) Pvt Ltd	GET
7	BHASWATI BORA	RDC Concrete (India) Pvt Ltd	GET
8	KAUSHIK KUMAR	K12 Techno Services Pvt. Ltd.	School Executive
9	BENGIA PERINA	K12 Techno Services Pvt. Ltd.	School Manager
10	BORSA BORUAH	K12 Techno Services Pvt. Ltd.	School Manager
11	VANLAL HRIATI FANAI	K12 Techno Services Pvt. Ltd.	Parent Relationship Manager
12	AIBANKHRAWBOK SYIEM	K12 Techno Services Pvt. Ltd.	School Manager
13	SHUBHAM KUMAR	K12 Techno Services Pvt. Ltd.	School Executive
14	ARSIS SARMA	Omspace Rocket and Exploration	HR Executive

(c) Students who qualified for GATE – 2024

Sl.No.	Student's Name	GATE Marks	GATE Score
1.	Papung Diri	32.42	385
2.	Precious Star Mawrie	31.38	374
3.	Sanjay Rai	30.35	363
4.	Aibankhrawbok Syiem	29.34	352
5.	Krishan yangfo	23.54	288
6.	Chasam Wangsu	23.1	283
7.	Gegong Leriak Tamin	20.34	253

(d) GATE-qualified students admitted to M. Tech. (ESE) & (GTE) in 2024-25

Sl. No.	Name	Roll No.
1	Taba Rozick	MT/24/ESE/002
2	Matung Tayem	MT/24/ESE/003
3	Hage Apa	MT/24/ESE/004
4	Ashok Tangu	MT/24/ESE/007
5	TAPI TONY	MT/24/ESE/008
6	Sayar Debbarma	MT/24/ESE/009
7	RUDAM TANGHA	MT/24/ESE/010
8	Kago Dolley	MT/24/ESE/011



9	Giogi Mesh	MT/24/ESE/013
10	Amos Mize	MT/24/ESE/016
11	Ngurang Tato	MT/24/GTE/001
12	Sono Beyong	MT/24/GTE/002
13	Gebi Yirang	MT/24/GTE/008



4.4 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

4.4.1 A Brief Profile of the Department

The Computer Science and Engineering Department of NERIST came into existence right at the inception of the institute in 1986. It offers a unique combination of courses and projects that help the students cope with the recent advancements in the computer industry and information technology. The Department offers a diploma and a degree/B.Tech. in computer science and engineering using a modular pattern.

M.Tech in Computer Science and Engineering started in 2006-07.

M.Tech in Information Technology started in 2011-12.

The PhD program started in 2007-2008.

The Department offers regular courses like Computer Organisation, Application Software, Operating System, Discrete Mathematics, Digital Electronics, Microprocessors, Database Management Systems, Compiler Design, Data Communications, Computer Networks, Design and Analysis of Algorithms, to name a few of them. Apart from the regular courses, a few of the important courses offered are Artificial Intelligence, VLSI Design, Image Processing, Fault Tolerant Computing, Information Theory, etc.

The faculty members of the Department are involved in various interdisciplinary research projects funded by agencies like CISR, MHRD, NEC, DoE, etc.

The Department has well-equipped LAN-connected laboratories, i.e., Advanced Computing Lab, System Lab, Programming Lab, PC Lab, Microprocessor Lab, Hardware Lab and Networking Lab, with state-of-the-art machines.

The Department has 1 GBPS internet connectivity through NKN.

Our graduates are well placed in organisations like Infosys, C-Dot, SIEMENS, Tata Telecom, British Mahindra Telecom, DRDO, NICNET, ISRO, OIL, CSIR, Telecom, CMC, PCL, HCL, IDPL, IOC, SAIL, TELCO, TISCO, ESCORTS, Mindtree, State Departments of Electronics, Power & PHED.

4.4.2 Academic Activities

The Department offers Diploma, a Degree/B.Tech. and M.Tech and PhD programmes. Besides undergoing the regular courses, the students of each module carry out a project in the second year. The degree first-year students also undergo industrial training for 50 days. The Department student counsellor guides these students in the allotment of training seats. The students also give a seminar presentation after completion of their summer training.

4.4.3 Laboratories and Laboratory Development

Programming Lab.

The practical classes of the Diploma Module and the Base Module are held in this laboratory. The students get exposure to various types of Application Software, such as Visual Basic, C++, Visual C++, etc., in this lab. Basic Computer training for the students of all the Departments of NERIST is also given here. It is well equipped with i3/i5 PCs, LaserJet printer, Deskjet printers, Line Printers, etc.

PC Lab.

The practical classes of the Diploma Module and Base Module are held. The students get exposure to various types of Application Software, such as Turbo C++, Dev C++, etc., in this lab. High-level language programming for the students of all the engineering Departments of NERIST is given here. It is well equipped with i7 PC's.



Advanced Computing Lab.

This lab is well equipped with 42 state-of-the-art Intel i5 iMac desktops and servers, and is basically for working in UNIX/LINUX and Windows environments as well. Practical classes for Diploma, Degree, and PG students are held here. Hands-on exposure to various programming Software, such as C, C++, and RDBMS software like Oracle 9i and SQL Server, Visual Studio .NET, MATLAB 2016a, and NETSIM 9, is available in this lab. Several Servers are connected to high-end Intel i5 iMac Desktops. The lab also has LaserJet printers, a Line matrix printer, a Scanner, etc. All the machines are on the institute's LAN and thus have Internet access. The students are encouraged to do network-related projects in this lab.

System Lab.

The system laboratory is equipped with two HCL Infinity Global Line Servers running on Red Hat Linux 4.0 Enterprise Edition, a SUN ULTRA SPARC 10S SERVER, and several Apple iMacs and Mac Minis. Practical classes for M. Tech and Degree students are held here.

Microprocessor & Digital Lab.

Training in various types of Microprocessors and Computer hardware is imparted in the Microprocessor laboratory. This laboratory is complete with different types of Microprocessor and microcontroller kits and hardware-related equipment. It also has the facility for training in Digital Electronics, which is the heart of every Computer. Practical classes for Diploma and Degree students are held here. The lab is well equipped with Frequency counters, Oscilloscopes, Analog Multi-meters, Power supplies, Digital IC trainers, Electronic Multi-meters, Functional Generators, Audio Generators, Pulse Generators, Microprocessor Trainer Kit IMPACT, Microprocessor Trainer Kit Star 85, Microprocessor Kit 68 K, Microprocessor Trainer Kit 6802, Microprocessor Trainer Kit DYNA86, Micro-controller Kit DYNA 51, STD Based Card for Computers, Servo Controlled Voltage Stabilizers, Isolation Transformer, Bread Boards, Bush Monitors for 85 kit, Colour TVs etc.

Hardware Lab.

The Hardware lab is set up in the Computer Science and Engineering Department for subjects like Peripherals, Assembly of Computers, Fault Tolerance and different hardware-related topics. To carry on these classes, the lab is well equipped with Motherboard, Processor, RAM, SMPS, HDD, SSD, Crimping Tool, Patch Panel etc.

Network Lab.

This lab is equipped with PCs and LAN T (LAN Trainer kits) consisting LANT – NIU, LAN-T PS and LANT Software. It also has ISECURIT - a Network and Data Security Training System and QUALNET 5.0. M. Tech and B. Tech lab assignments on Computer Communication and Networking are carried out in this lab. It is augmented with a wireless network testbed of 5 USRPs and related accessories.

Seminar Hall

Faculty members and the students of the Department use the seminar hall for the exchange of ideas and information through presentations and discussions. The Diploma, Degree and MTech Final year project seminars are conducted here. Other presentations, such as PhD progressive seminars, are also conducted here. This facility is freely made available to faculty, students, research assistants and staff in the Department, and they may give a presentation on a topic of his/her choice. This hall is well equipped with a smart classroom.

Departmental Library

The Department has a Departmental library that caters to the needs of students, faculty, and staff of the Department. Presently, the library has some core Computer Science books, magazines, Manuals of different hardware, software, etc., announcements of new releases, Training reports, PhD theses, Degree Project Reports, Diploma Project Reports, etc.



4.4.4. Projects completed by the UG/PG/PhD Students

M. Tech. CSE

Sl. No.	Title	Guide	Student Name
1	Comparative Evaluation of Silhouette and Human Pose Estimation Techniques for Gait Analysis with Covariate Conditions	Dr. Margaret Kathing	Kipa Nitin
2	Plant Species Recognition System based on Leaf Images	Dr. Ajit Kr. Singh Yadav	Khriesetuo Rio
3	Performance Optimization on Federated Learning-based Cognitive Radio Spectrum Sensing	Dr. Amar Taggu	Mebanrisuklang Blam
4	Deep Neural Network Approach for Image Classification	Dr. M. Marjit Singh	Pintu Kumar
5	A Dynamic Context-Based Routing Protocol for Effective Packet Forwarding in Opportunistic Network	Dr. Satya Jyoti Borah	Kekuokho Mor
6	Voice Cloning using TACOTRON2 Text to Speech Model	Mr. Kapang Legoh	Tunavi Yeptho
7	Spectrum Allocation in Cognitive Radio Networks using Particle Swarm Optimization	Dr. Ningrinla Marchang	Ningthoujam Baby Devi

B.Tech. CSE

Group Number	Roll Number	Project Guide	Project Title
1	D/21/CS/110 D/21/CS/120	Mr. Yogendra Mohan	Web-Based Application
2	D/21/CS/107 D/21/CS/118	Dr. Amar Taggu	Predicting Ground Level Air Pollutants with the use of Deep Learning Techniques
3	D/21/CS/119 D/21/CS/139	Dr. Ningrinla Marchang	Missing Data Inference in Spatio-Temporal Mobile Crowd Sensing using Graph Neural Network
4	D/21/CS/108 D/21/CS/115	Mr. Yogendra Mohan	ERP System
5	D/21/CS/141 D/21/CS/002	Dr. Ajit Kumar Yadav Singh	Machine Learning Model for QoS Prediction in Cloud Computing
6	D/21/CS/135 D/21/CS/138	Dr. Amar Taggu	Emotional Echo: An AI-driven Speech Emotion Recognition
7	D/21/CS/101 D/21/CS/109 D/21/CS/140	Dr. Ningrinla Marchang	Comparative Performance Analysis of Quantum and Classical Optimisation Algorithms
8	D/21/CS/116 D/21/CS/125	Dr. Amar Taggu	Securing Cognitive Radio Networks using Deep Learning based Malicious User Recognition
9	D/21/CS/124 D/21/CS/133	Mr. Aswini Kr. Patra	Vision Transformers for Plant Disease Identification
10	D/21/CS/117 D/21/CS/142	Dr. Monjul Saikia	Handwritten Signature Verifying System
11	D/21/CS/129 D/21/CS/104	Mr. Aswini Kr. Patra	Deep Learning Framework for Precise Localization of Alzheimer's Disease-Affected Brain Regions
12	D/21/CS/114 D/21/CS/126	Dr. Monjul Saikia	Automated License Plate Recognition using AI
13	D/21/CS/130 D/21/CS/105	Dr. Satya Jyoti Borah	App Development on Android
14	D/20/CS/124 D/21/CS/121	Mr. Kapang Legoh	Tourism App for Arunachal Pradesh
15	D/21/CS/106 D/21/CS/004	Mr. Kapang Legoh	Design and Development of a Social Media App
16	D/22/CS/210 D/21/CS/001	Dr. Satya Jyoti	App Development on Android



	D/21/CS/213*	Borah	
17	D/21/CS/005 D/21/CS/134	Dr. Ajit Kumar Yadav Singh	Simulation and Performance Evaluation under various WSN scenarios and deployment conditions
18	D/21/CS/136 D/21/CS/123	Dr. Monjul Saikia	Design of Weather Forecast App Android/IOS
19	D/22/CS/204 D/22/CS/212	Dr. M. Marjit Singh	Website Design for Online Learning
20	D/22/CS/211 D/22/CS/207	Dr. M. Marjit Singh	Indian Sign Language Detection System
21	D/21/CS/132 D/21/CS/006	Mr. Kapang Legoh	Video Editing App
22	D/21/CS/113 D/21/CS/127	Dr. Margaret Kathing	Predicting Wildlife Population using Machine Learning Models
23	D/22/CS/202 D/22/CS/213	Dr. M. Marjit Singh	E-commerce website
24	D/22/CS/209 D/22/CS/203	Dr. Margaret Kathing	Offline Symbol Recognition App
25	D/22/CS/205 D/21/CS/143	Mr. Aswini Kr. Patra	Let's Explore Genes and Proteins in a Stressed Plant: Machine Learning Measure

4.4.5 Short Term Courses/ Seminars/Workshops Conferences Organized at Nerist:

Prof. (Dr.) Ningrinla Marchang

Organised FDP on "Business Start-ups and IPRs", 20 - 24 January 2025 in virtual mode, NITTTR Chandigarh, Coordinator: Prof. Niraj Bala, EDIC Deptt., NITTTR Chandigarh, No. of participants: 25

Dr. S. J. Borah

Organised FDP (CDAC) on HPC for ST/SC and women under the NSM, Govt. of India.

Prof. (Dr.) Moirangthem Marjit Singh

Organised a 15-day Training Program on Foundation Course in Artificial Intelligence Applications from 29th January 2025 to 18th February 2025 at NERIST, sponsored by NIELIT Itanagar Centre, MietY, Govt. of India, as Program Coordinator.

Organised one-day Awareness Program on "Information Security & Emerging Technologies for Senior Govt. Officials" on 21st March 2025 at NERIST, sponsored by NIELIT Itanagar Centre, MietY, Govt. of India, as Program Coordinator.

Organised an Online Hands-On Workshop on Virtual Lab on 25th March 2025, Sponsored by Virtual Labs Project under MoE, Govt. of India.

Dr. Margaret Kathing

Organised an FDP on "High Performance Computing for SC/ST & Women" in collaboration with CDAC-CINE, under NSM, Govt. of India. The program was a week-long program from 9th to 13th September, 2024.

Aswini Kr. Patra

Finance Chair, International Conference on Computer-Aided Modelling for the Sustainable Development of Smart Cities (Nov 27- 30, 2024) organised by the Department of CE, NERIST.



Yogendra Mohan

Organised a one-day Awareness program on “Information Security & Emerging Technologies for the Senior Govt. Officials” on 21st March 2025.

As a keynote speaker in a five-day Faculty Development Program from 29th July 2024 to 2nd August 2024 on “Recent Technologies in Machine Learning & Technologies”, organised by JEMTECH, Greater NOIDA and JNU, New Delhi.

Conference Chaired: at International Conference on Intelligent Computing and Communication Techniques (ICICCT – 2024) on 28-29 June 2024, at JNU, New Delhi.

4.4.6 Short-term Courses/ Seminars/Workshops Conferences attended by the Faculty:

Prof. (Dr.) Ningrinla Marchang

Attended FDP on “Business Start-ups and IPRs”, 20 - 24 January 2025, in virtual mode, NITTTR Chandigarh

Dr S. J. Borah

Attended NEP orientation program under MM-TTP of the UGC, organised by MMTTC, Tezpur University, from 20th August to 29th August 2024.

Attended a five-day Faculty and Officers training program on quality assessment in NIRF and NBA at NERIST, Nirjuli, Arunachal Pradesh, from January 16th to 20th January 2024.

Attending 5 5-day short-term training program on Outcome-Based Education (OBE) and National Board of Accreditation (NBA) with experts from MITR Kolkata, held from 1st April 2025 to 5th April 2025, organised by the Department of Electrical Engineering, NERIST, Nirjuli, Arunachal Pradesh.

Dr. Margaret Kathing

Attended FDP on “ Harnessing Python for Data Science: Mastering Libraries & Framework for Advanced Analysis “ Sponsored by MeitY, GOI, organised by E&ICT NIT Warangle and NITTE during 13th-23rd May, 2024.

Attended STTP on “NEP Orientation & Sensitisation under Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC), organised by MMTTC, Tezpur University, from 20/08/2024 to 29/08/2024.

Prof. (Dr.) Moirangthem Marjit Singh

2024 6th Asia Conference on Machine Learning and Computing (**ACMLC 2024**), July 26-28, 2024, Bangkok, Thailand.

2024 International Conference on Precision Bio-Medicine and Sustainable Smart City Development, September 5-6, 2024, SRM Institute of Science & Technology, Chennai, India.

Royal Charter Day Celebration, September 9, 2024, IEI Arunachal Pradesh State Centre, NERIST.

Recent Advancements in Communication Engineering, September 30, 2024, IEI Arunachal Pradesh State Centre, NERIST.

8th International Conference on Information Technology (**InCIT2024**), November 14-15, 2024, Burapha University, Thailand and Kanazawa-Ishikawa, Japan (Attended online).



2025 5th International Conference on Computer Communication and Information Systems (CCCIS2025), February 28-March 2, 2025, Hong Kong Chu Hai College, Hong Kong, China.

Aswini Kr. Patra

3 days FDP on “Inculcating Universal Human Values in Technical Education” (UHV-I) organised by AICTE at NERIST, 7th Feb-9th Feb, 2025.

5 days FDP on “Computational Genomics: Path to Precision Medicine” organised jointly by IIIT Hyderabad and HIT Kolkata, 24th Mar- 28th Mar, 2025.

Dr. Manjul Saikia

One-week Faculty Development Programme/Short Term Training Programme on Cloud Computing and HPC organised by NITTTR Kolkata from 5th February to 9th February, 2024

Six-day Faculty Development Programme on “Internet of Things(IoT) with Artificial Intelligence(AI) and Machine Learning(ML)” organised by the Department of Computer Science and Engineering, Academy of Technology, in association with IEEE ComSoc, Kolkata Chapter, held from 26th February to 02nd March, 2024.

“4th One-Week International Workshop on Technical Writing using LaTeX (Online)”. The Workshop is organised by the School of Electronics Engineering (SENSE) and Technically.

Co-Sponsored by VIT-AP IEEE SB and MTT SBC, at VIT-AP University, Amaravati, India, during 30th Mar-5th Apr, 2024.

Short-Term Course on "5G/6 G Wireless Technologies (WT-2024)" organised by the Department of Electronics & Communication Engineering, National Institute of Technology Kurukshetra, Haryana, during April 17-24, 2024.

The Vth NEP 2020 Orientation & Sensitisation Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC), organised by UGC- Malaviya Mission Teacher Training Centre, University of Allahabad, from June 03 to June 12, 2024 and obtained grade A.

Dr Ajit Kr. Singh Yadav

Attended the Nurturing Future Leadership Program hosted by IIT Gandhinagar from 24-06-24 to 28-06-2024.

Attended the 6th NEP2020 Orientation and sensitisation program organised by MMTTP Gorakhpur from 27-05-2024 to 05-06-2024.

Yogendra Mohan

Attended “Intelligent Data Analytics for Healthcare Domain” organised by AICTE Training and Learning (ATAL) at JNU, New Delhi, from 09.09.2023 to 14.09.2024.

Attended “Inculcating Universal Human Values in Technical Education,” organised by AICTE at NERIST, Nirjuli, from 07.02.2025 to 09.02.2025.

Attended “Harnessing the Power of AI: A Comprehensive FDP for Faculty and Researchers”, organised by E&ICT Academy, IIT Guwahati, from 24.03.2025 to 28.03.2025.



4.4.7 New Degrees/Professional Memberships obtained by the Faculty:

Dr. Margaret Kathing

PhD awarded in June 2024 from Tezpur University under the QIP program
IEI-Fellow Member

4.4.8 Achievements/Awards/Recognition earned by the Faculty:

Prof. (Dr.) Moirangthem Marjit Singh:

Nominated as a Member of the Ethics Committee of IETE Publications w.e.f. 12 April 2024, New Delhi, India.

A patent granted for 20 years by the Patents Office, Government of India, with effect from 30 July 2021 (Patent Number: 542853) on 25th June 2024.

Received the “Best Paper Award-1st Runner-Up” for the paper titled “Finding efficient activation functions for deep learning based hyperspectral image classification. International Conference on Data Analytics and Insights (ICDAI 2024), July 25-27, 2024, Kolkata, India.

Hosted the 2024 6th Asia Conference on Machine Learning and Computing (ACMLC 2024), July 26-28, 2024, Bangkok, Thailand and Chaired a technical session titled “*Machine Learning Models and Computing*”.

Received Certificate of Appreciation from IEEE India Council for serving as an Academic Mentor in the Student Mentorship program (SMP 2024) from 20th August to 20th December, 2024.

Chaired a technical session titled “*AI-based integrated information system and software development*” during the 5th International Conference on Computer Communication and Information Systems (CCCIS 2025) held at Hong Kong Chu Hai College, Hong Kong, China, from February 28 to March 2, 2025.

Designated as Nodal Coordinator Virtual Labs under IIT Kharagpur, MoE, Govt. of India w.e.f 4 March, 2025.

Prof. (Dr.) Ningrinla Marchang

Women in Engineering Committee Chair (2025), IEEE Guwahati Subsection.

Dr. Monjul Saikia

Best Paper Award for the paper “Secure Multipath Angular Routing Protocol (SMARP) for Underwater Wireless Sensor Networks” in the 1st Int. Conference on Advanced Computing and Systems (AdComSys 2024) organised by the Department of CSI & CSIT, University of Engineering and Management, Kolkata, India, held on 26-27th June 2024.

4.4.9 Projects Sanctioned by Outside Agencies to the Faculty of the Department:

Prof. (Dr.) Moirangthem Marjit Singh:

Title: "Technological Intervention using Artificial Intelligence and Internet of Things for Smart Agriculture in North East India". **Funding Agency:** NEC, Ministry of DoNER, GoI, **Amount:** Rs 19.73 Lakh, **Duration:** 03 Years, **Role:** Principal Investigator.



4.4.10. Publications

A. Referred Journal:

Prof. (Dr.) Ningrinla Marchang

Singh, W.N., Marchang, N. Mitigating Security Attacks in Spectrum Allocation in Cognitive Radio Networks. *SN COMPUT. SCI.* (Springer) **5**, 451 (2024). <https://doi.org/10.1007/s42979-024-02819-z> Published: 18 April 2024

Sharma A. and Marchang N., "A Review on Client-Server Attacks and Defenses in Federated Learning", *Computers and Security* (Elsevier). Vol. 140, 2024,103801, ISSN 0167-4048, <https://doi.org/10.1016/j.cose.2024.103801>. May 2024 Published: May 2024

Dr S. J. Borah

Dutta, Amit, Satya Jyoti Borah, and Jagdeep Singh. "A Bayesian approach using spatiotemporal features for suitable next hop selection in opportunistic networks." *International Journal of Communication Systems* 37, no. 8 (2024): e5741.

A Dynamic Context-Based Routing Protocol for Efficient Routing in Opportunistic Networks, *SN computer Science* (Accepted for Publication)

Prof. (Dr.) Moirangthem Marjit Singh:

Ghorai, A., Nandi, U., **Singh, M.M.** et al.(2025): Tsi-cnn-net: truly shift-invariant convolutional neural network for Indian sign language recognition system. *Pattern Analysis and Applications*, Springer, **28**, 52 (2025). <https://doi.org/10.1007/s10044-025-01428-7>

Sarkar, N.K., **Singh, M.M.** & Nandi, U.(2024): Image classification with deconvolution operation and augmentation, *The Computer Journal*, Oxford University Press, 2024;, bxae099, <https://doi.org/10.1093/comjnl/bxae099>

Sarkar, A., **Singh, M.M.** & Sharma, H.S.(2024): Artificial recurrent neural network coordinated secured transmission towards safeguarding confidentiality in smart Industrial Internet of Things. *International Journal of Machine Learning and Cybernetics* (2024), Springer, DOI: <https://doi.org/10.1007/s13042-024-02310-4>

Sarkar, N.K., **Singh, M.M.**, Nandi, U. and Mandal, J.K.,(2024): Ensemble Transfer Learning for Image Classification, *ECTI Transactions on Computer and Information Technology*, vol. 19, no. 1, pp. 25–36, Nov. 2024, DOI: <https://doi.org/10.37936/ecti-cit.2025191.257836>

Bhakta, S., Nandi, U., Mahapatra, K.R., **Singh, M.M.** and Noorwali, A.(2024): SWOSBC: A novel optimiser for learning Convolutional Neural Network, *IEEE Access*, doi: 10.1109/ACCESS.2024.3481640

Aswini Kr. Patra

A. K. Patra, Lingaraj Sahoo, Explainable light-weight deep learning pipeline for improved drought stress identification, *Frontiers in Plant Science*, vol. 15, 2024. <https://doi.org/10.3389/fpls.2024.1476130>

Dr Ajit Kr. Singh Yadav

Yadav, A.K.S. et al. (2024). Malicious node detection using SVM and secured data storage using blockchain in WSN. *International Journal of System Assurance Engineering and Management*. <https://doi.org/10.1007/s13198-024-02564-9>. (Scopus Indexed)



Ajit Kumar Singh Yadav et.al., (2024) Cloud-Enabled Fog Computing Framework with Wireless Sensor Networks for Data Centre Systems on IoT Platform. International Journal of Modelling, Simulation, and Scientific Computing. <https://doi.org/10.1142/S1793962326410011>. (**Scopus Indexed**)

Shashikant Morya, **Ajit Kumar Singh Yadav** (2024) A Versatile Deep Learning Model for Alzheimer's Disease Detection by using Structural MRIs. Journal of Electrical Systems. 20-10s(2024):2937. (**Scopus Indexed**)

T. P, **Yadav AKS**, Y. S, T. V. (2024). Optimized Secure Clustering and Energy Efficient System for IIoT Data in Cloud Environment. EAI Endorsed Trans Energy Web [Internet]. DOI: <https://doi.org/10.4108/ew.6032>. (**Scopus Indexed**)

Yadav AKS et al.(2024) Distributed denial of service (DDOS) attacks and mitigation method using logistic regression-based GoogLeNet for real-time in security games, International Journal of Modelling, Simulation, and Scientific Computing, <https://doi.org/10.1142/S1793962324410204>. (**Scopus Indexed**)

Pavithra, D., **Yadav, A.K.S.** et al. (2024). Enhancing cognitive abilities in autistic children through AI-enabled IoT intervention and the Cognicare framework. Int J Syst Assur Eng Manag. <https://doi.org/10.1007/s13198-024-02578-3>. (**Scopus Indexed**)

S. Jebarani Evangeline, **Ajit Kumar Singh Yadav** et al. (2024) Noncooperative game-theoretic model for security enhancement in cloud gaming environments, International Journal of Modelling, Simulation, and Scientific Computing, <https://doi.org/10.1142/S1793962324410216>. (**Scopus Indexed**)

Yogendra Mohan

Dohare, Indu, Karan Singh, Tayyab Khan, **Yogendra Mohan**, and Intyaz Alam. "Coati optimisation algorithm for node localisation in sensor-enabled IoT." Cluster Computing 28, no. 4 (2025): 221.

Dr. Lilapati Waikhom

Sabuzima Nayak, Ripon Patgiri, Lilapati Waikhom, and Arif Ahmed. "A review on edge analytics: Issues, challenges, opportunities, promises, future directions, and applications." Digital Communications and Networks 10, no. 3 (2024): 783-804. <https://doi.org/10.1016/j.dcan.2022.10.016>

Shamsi, Zeba, Lilapati Waikhom, Anish Kumar Saha, Ripon Patgiri, Mutum Franckie Singha, and Dolendro Singh Laiphrakpam. "Visually meaningful cipher data concealment." Digital Signal Processing 155 (2024): 104717, <https://doi.org/10.1016/j.dsp.2024.104717>

Manoj Das

S Kumar, M Das, S Nandi and D Goswami, "DI4IoT: A Comprehensive Framework for IoT Device-Type Identification through Network Flow Analysis", Internet of Things, Elsevier, 2025

M Das, M Buragohain, S Nandi, "Distributed Neighbour Discovery with Mobility Adaptive Probing for Beyond 5G D2D Communications". Computer Networks, Elsevier, 2024

B. Conference papers:

Prof. (Dr.) Ningrinla Marchang

Sharma and N. Marchang, "Probabilistic Sign Flipping Attack in Federated Learning," 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT), Kamand, India, 24–28 June 2024, pp. 1–6, doi: 10.1109/ICCCNT61001.2024.10725463. Published in IEEE Xplore: 4 November 2024.



Sharma and N. Marchang, "Probabilistic Free Riding Attack in Federated Learning," 2024 IEEE 5th India Council International Subsections Conference (INDISCON), Chandigarh, India, 22–24 August 2024, pp. 1–6, doi: 10.1109/INDISCON62179.2024.10744201. Published in IEEE Xplore: 11 November 2024.

Dr. S. J. Borah

"Energy-efficient Encounter Buffer & Contact Duration-Based Routing protocol in opportunistic Network" In MIELIT's international conference on communication, electronic and digital Technology (PP-275-288), Springer Nature (2024).

Energy-aware Probability-based message forwarding model for Next hop selection in Opportunistic Network {Accepted for publication in IEEE National Conference on Intelligent Electronic Systems and Application (NCIESA-2024), NIT Kurukshetra, pp.1-6}

Dynamic Trust and Reputation-based from work for routing in opportunistic Network In 3rd NIELIT's International conference on communication, Electronics and Digital Technology, NICEDT-2025 (Accepted for publication in Springer).

Prof. (Dr.) Moirangthem Marjit Singh:

Sarkar, A., Nandi, U. , **Singh, M.M.**, Paul, B. and Selvaraju, R.(2024): Finding efficient activation functions for deep learning based hyperspectral image classification. International Conference on Data Analytics and Insights(**ICDAI 2024**), July 25-27, 2024, Kolkata, India.(**Best Paper Award-1st Runner-Up**)

Singh, M.M., Sharma, H.S. & Sarkar, A. (2024). PSO-based Hyperparameter Optimisation in CNN for detection of Mirai and GAFGYT attacks in WSNs. 2nd International Conference on Women in Multifaceted Research (**ICWMR-2024**), 11th - 12th March 2024, Gopal Narayan Singh University, Bihar, India

Singh, M.M., Chetry. B. (2025). "An Ensemble Unsupervised Learning based Approach to Detect Zero-Day Attack", 2025 5th International Conference on Computer Communication and Information Systems (**CCCIS 2025**), February 28-March 2, 2025, Hong Kong Chu Hai College, Hong Kong, China.

Aswini Kr. Patra

Aswini Kumar Patra, Tejaswini Gajurel, Improved Cotton Leaf Disease Classification Using Parameter-Efficient Deep Learning Framework, 10th International Conference on ECTI DAMT and NCON 2025, Nan, Thailand.

Aswini Kumar Patra, Yamem Tamut, Sudisht Mishra, Compressive Strength and Binder Intensity Prediction in Concrete Mixes using a Customised Neural Network with Explainability, 4th International Conference on Engineering and Agro-Industrial Technology 2025, University of the Philippines, Los Banos, Philippines.

Aswini Kumar Patra, Priyam Kurmi, Lingaraj Sahoo, Machine learning for sustainable management of drought in tea and other crops of NER, Japan-NER Sustainable Technologies Cooperation Symposium 2025 (JNSTCS 2025), IIT Guwahati.

Dr. Monjul Saikia

Saikia M "Secure Multipath Angular Routing Protocol (SMARP) for Underwater Wireless Sensor Networks" in 1st Int. Conference on Advanced Computing and Systems (AdComSys 2024) organised by the Department of CSI & CSIT, University of Engineering and Management, Kolkata, India, held on 26-27th June 2024.

Dr. Ajit Kr. Singh Yadav

Presented a Paper on " AI Based Geo intelligence System for Attack Prediction and Virtual Simulation" in International Conference on Intelligent, Computing and Communications (IC3-2025) organized by GL Bajaj group of Institutions Mathura, U.P. during 13-14, Feb 2025.



Yogendra Mohan

Y. Mohan, R. K. Yadav and M. Manju, "PATANLS: Performance Analysis of Trust-Aware Node Localisation in WSNs," 2024 4th International Conference on Technological Advancements in Computational Sciences (ICTACS), Tashkent, Uzbekistan, 2024, pp. 1483-1491, doi: 10.1109/ICTACS62700.2024.10840803.

Presented paper on 15.11.2024 on topic "PATANLS: Performance Analysis of Trust-Aware Node Localization in WSNs" at International Conference on Technological Advancements in Computational Sciences (ICTACS-2024) Tashkent, Uzbekistan.

Presented paper on 29.06.2024 on the topic "PARBNLS: Performance Analysis of Range Based Node Localisation Scheme in WSNs" at the International Conference on Intelligent Computing and Communication Techniques (ICICCT – 2024).

Manoj Das

M Das, K Parihar, M Buragohain, S Nandi, "Design and Implementation of a Neighbour Discovery Framework through Base Station coordination for 5G D2D Communications", IEEE Wireless Communications and Networking Conference (WCNC), 2024

C. Book/Book Chapter:

Prof. (Dr.) Moirangthem Marjit Singh:

Singh, M.M. and Sarkar, N.K.(2024). *Capsule Network Approach for Image Classification*. In: Gunjan, V.K., Zurada, J.M. (eds) Proceedings of 4th International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications. ICMISC 2023. Lecture Notes in Networks and Systems, vol 873. Springer, Singapore. https://doi.org/10.1007/978-981-99-9442-7_53

Sarkar, A., Nandi, U., Paul, B., Ghosal, S.K., Singh, M.M. *et al.* (2025). Searching Optimisers for Deep Learning Based Hyperspectral Image Classification. In: Majumder, M., Zaman, J.K.M.S.U., Ghosh, M., Chakraborty, S. (eds) Computational Technologies and Electronics. ICCTE 2023. Communications in Computer and Information Science, vol 2376. Springer, Cham. https://doi.org/10.1007/978-3-031-81935-3_7

Dr. Ajit Kr. Singh Yadav

Abhishek Singh, Vishnu D. Rajput, Karen Ghazaryan, **Ajit Kumar Singh Yadav**, Nabam Teyi, Pradeep Kumar, Ragini Sharma, and Madhu Kamle (2025). The Next Generation Farming and the Importance of Artificial Intelligence, Sensor Technology and Big Data. Smart Technologies in Sustainable Agriculture (Editors: Pradeep Kumar, Abhishek Singh, Vishnu D. Rajput, Tatina Minkina, Anil Kumar Singh). CRC Press, Hard ISBN: 9781774916889 E-Book ISBN: 978100349340

Yogendra Mohan

Authored a book entitled "Essence of Physics, Chemistry, and Mathematics." ISBN: 9789359894539, Genre: ACADEMIC.

4.4.10 Interaction of faculty with outside agencies:

Prof. (Dr.) Ningrinla Marchang

Executive Committee Member, IEEE Guwahati Subsection

Appointed Organising chair, IEEE Guwahati Subsection conference (GCON 2025), June 18-20, 2025

Lecture on "Personal Management for Engineering Students" for Induction Programme on 9th July, 2024, Deptt. Engineering and Technology, University of Science and Technology, Meghalaya.

**Dr. Margaret Kathing**

Executive Committee Member, IEEE Guwahati Subsection.

Appointed Finance chair, IEEE Guwahati Subsection conference (GCON 2025), June 18-20, 2025.

Resource person on “ICT Tools Teaching and Learning” for In-service Vocational Teachers Training Program under SAMAGRA SHIKSHA, an Integrated Scheme for School Education (ISSE), Arunachal Pradesh.

Resource person on the topic “Role of ICT in teaching and Learning “of two-day FDP on Teaching, Learning and Research Skill for College Teachers held on 7th to 8th March 2025, Organised by Higher & Technical Education at D.K. Convention Centre, Itanagar, Arunachal Pradesh.

4.4.11 Achievements of Students:**Placement**

Sl. No.	Name	Discipline	Company	Salary Package(in Rs.)
1	HARSHA YADAV	CSE	PWC AC	6,00,000
2	ANUP DAS	CSE	PWC AC	6,00,000
3	ADARSH SINHA	CSE	EXPRESS ROADWAYS	3,00,000
4	LINDY NONGMAITHEM	CSE	EXPRESS ROADWAYS	3,00,000
5	NIDHI JHA	CSE	VIKAS GROUP	3,60,000
6	LANNGAMBI THOUNAOJAM	CSE	VIKAS GROUP	3,60,000
7	ANKIT RAJ	CSE	K12 TECHNO SERVICES PVT. LTD.	5,00,000
8	MRIGANKA SINGHA	CSE	K12 TECHNO SERVICES PVT. LTD.	5,00,000
9	AINAM NOBENG	CSE	K12 TECHNO SERVICES PVT. LTD.	5,00,000
10	SHUBHAM MISHRA	CSE	LTIMINDTREE	4,05,000
11	NIDHI JHA	CSE	LTIMINDTREE	4,05,000
12	ELSANADIA F PALA	CSE	LTIMINDTREE	4,05,000
13	MRIGANKA SINGHA	CSE	OMSPACE ROCKET AND EXPLORATION	4,00,000
14	LINDY NONGMAITHEM	CSE	COGNIZANT	4,02,000
15	INDU BALA	CSE	TAAZAA	5,50,000
16	RAJNEESH KUMAR YADAV	CSE	TAAZAA	5,50,000

4.4.13 Any other relevant information:**Prof. (Dr.) Moirangthem Marjit Singh:**

Patent Number:542853, Patent Office, Govt. of India, Date of Filing: 30.7.2021, Date of Grant: 25.6.2024, Term: 20 years, Inventors: Dr. Moirangthem Marjit Singh and Hanjabam Saratchandra Sharma.

Aswini Kr. Patra

Patent Published: Application No.202541014589, Title: **Secure And Adaptive Hardware Cryptography Module for IoT Devices**. Date of filing of Application:20/02/2025. Publication Date: 07/03/2025 (The Patent Office Journal No. 10/2025 Dated 07/03/2025)



4.5 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

4.5.1 A Brief Profile of the Department

The Department of Electronics and Communication Engineering (ECE) was established in 1985, with its inaugural batch admitted in 1986. Offering three distinct modules – Base, Diploma, and Degree – the Department provides a comprehensive educational experience. Successful completion of the degree module grants students a B. Tech. degree, while the master's program awards an M. Tech. in Electronics and Communication Engineering, with specialisations in communication and VLSI. The curriculum is meticulously crafted to align with current technological trends, equipping students with fundamental knowledge to navigate advancements in Electronics and Communication Engineering. Moreover, it addresses the nation's demand for skilled professionals in technology development and support. In addition to undergraduate and postgraduate programs, the Department offers PhD opportunities (both part-time and full-time) in various specialised fields, including Optical Fibre Communication, DSP & Embedded Systems, Microelectronics, Instrumentation, VLSI, Computer Networking, Information Security, Wireless Communication, and Microwave Engineering. With a faculty comprising 17 members (**Prof. Md. Anwar Hussain retired on 31/12/2024**), the Department boasts a strong academic backbone. Among them, 10 faculty members hold doctoral degrees, while the remaining 06 are actively pursuing their PhD. Among them, 06 serve as Professors, 03 as Associate Professors, and 08 as Assistant Professors.

List of Faculty members with their designations and fields of specialisation:

Sl. No.	Name	Designation	Area of Specialization
1.	Prof. Md. Anwar Hussain (retired on 31/12/2024)	Professor	High Data Rate Communication System, Massive MIMO
2.	Prof. Rajesh Kumar	Professor	Communication System, Sensor and Circuits
3.	Prof. T. Sharan	Professor	Low-Voltage Low-power VLSI CMOS Analog and Mixed Signal Circuits and Systems Design
4.	Prof. Joyatri Bora Hazarika	Professor	Wireless Communication, Massive MIMO, Bio-Electronics, IoT
5.	Prof. Madhusudhan Mishra	Professor	Communication System, Sensor and Circuits
6.	Prof. P. K. Dutta	Professor	Semiconductor Devices, Biosensors, and VLSI Circuits, Digital Design
7.	Dr. Ashok Kumar Ray	Associate Professor	Semiconductor device, design, development and modelling. GaN and SiC based device. VLSI Technology
8.	Dr. Kurmendra	Associate Professor	Micro-electro-mechanical-systems(MEMS),Micro-opto-electro-mechanical-Systems(MOEMS)
9.	Dr. Ram Gopal	Associate Professor	High Power Microwave Devices, Free Electron Lasers, Antennas
10.	Mr. Rusni Kima Mangang	Assistant Professor	VLSI for Wireless Communication, Analog Integrated Circuit, Digital Integrated Circuit
11.	Mr. Anil Kumar Gautam	Assistant Professor	Low-Voltage Low-Power CMOS Analog Circuit Design
12.	Mr. Akho John Richa	Assistant Professor	Digital electronics, Circuits and Devices
13.	Mr. Moirangthem Edison Singh	Assistant Professor	Microwave Filters, Antennas
14.	Mrs. Bhagyalakshmi Narayanapuram	Assistant Professor	Signal processing, Telecommunications, LTE & NR/5G Physical Layer, Hardware security in wireless communication
15.	Mr. Rajarshi Sen	Assistant Professor	RF and Microwave Engineering, Plasmonics, Wave-matter interaction, Passive components, RF Filters
16.	Dr. Rajib Sharma	Assistant Professor	Signal Processing, Speech Processing, Machine Learning and Artificial Intelligence
17.	Dr. Chitranjan Kumar Rai	Assistant Professor	Computer Vision, Image Processing, Virtual Instrumentation, Deep Learning, Machine Learning



4.5.2 Academic Activities

The Department conducts academic activities based on the modular pattern of NERIST- certificate in Maintenance Engineering, Diploma, and Degree in Electronics and Communication Engineering. The students of M. Tech. and PhD students are encouraged to attend and present their research publications at international and national conferences. All the research scholars are motivated to publish their research work in esteemed journals worldwide. A Departmental society named NERIST Electronics Society (NES) is a pioneer body for the professional activities of students. The Department has organised workshops and seminars with technical collaboration by the faculty members /experts of other universities.

4.5.3 Laboratories and Laboratory development

The Department has 13 laboratories to conduct practical classes for various courses. The Department has modernised the research laboratory with funds from MHRD under the Visvesvaraya PhD Scheme. The Department is also further developing the existing VLSI and Computer Networking laboratories. The Department has taken steps to develop PG labs for M. Tech courses for which Silvaco, Xilinx ISE series along with VHDL based kits, TI 6713 series DSP kits, etc. have been procured along with ORCAD, Micro wind Design Software, and Tanner simulation software which is available in P.G. Lab-II. The Department received software through C2S for training manpower in the semiconductor domain. An Artificial Intelligence and IoT Laboratory has also been set-up with financial support from IIT Roorkee under Divyasampark iHub project.

4.5.4 Projects completed by the UG/PG/PhD students:

a. PhD Thesis Submitted: 03

Sl. No.	Name	Roll No./Regd. No.	Title	Name of Supervisor
1.	Anshul Srivastava	PhD/PT/18/EC/05 518/008	Design and Analysis of Microstrip Patch Antenna Using Metamaterial for Biomedical Applications	Prof. Rajesh Kumar
2.	Mriganka Gogoi	PhD/PT/18/EC/02 518/003	Architectural Design and Analysis of Phase Locked Loop to Enhance its performance	Prof. Pranab Kishore Dutta

b. Postgraduate (M. Tech.) Projects:

Student No.	Roll No.	Student Name	Project Title	Supervisor
MT/22/ECE/007		C. Lalnunkima	Face anti spoofing for phase recognition technology based on deep learning (YoloV8, face net and support vector machine)	Prof. Md. Anwar Hussain
MT/22/ECE/008		Marphy Kamki	IOT based sensor monitoring system for aquatic environment ecosystem	Prof. Rajesh Kumar
MT/22/ECE/009		Rashi Debbarma	Study on V2V connectivity and user mobility in VANET	Prof. Joyatri Bora Hazarika
MT/22/ECE/005		Conquest Rymbai	Face emotion recognition using deep learning	Prof. Madhusudhan Mishra
MT/22/ECE/004		Joyson Nehgoulun Hangshing	High performance and power efficient domino logic circuit for wide fan-in gates.	Prof. Pranav Kishore Dutta
MT/22/ECE/001		Rithe Rai	2D transition metal Dichalcogenide monolayer and its applications in gas sensing	Dr. Ashok Kumar Ray
MT/22/ECE/003		Joy Debbarma	Analysis of classification of EEG signal using EVDHM	Mr. Rusni Kima Mangang
MT/22/ECE/011		Donald Rai	Design and analysis of ESIW bandpass filter using CSIR	Mr. Moirangthem Edison Singh
MT/22/ECE/010		Borish Oinam	Design and Analysis of Single and Dual Bandpass Filters Using Half-Mode Substrate Integrated Waveguide (HFSIW) with complementary split ring resonator (CSRR)	Mr. Moirangthem Edison Singh

**c. Undergraduate (B.Tech.) Projects:**

Sl No.	Group Members	Roll Number	Title of Project	Supervisor's Name
1.	Daminot Clifford Kharkongor Marbud Janai Sun Hosannaia Marwein Dasainmiki Diengdoh	D/21/EC/207 D/21/EC/201 D/20/EC/111 D/20/EC/007	Quantization of CSI and Comparison of the sum rate of a MIMO system	Prof. Md. Anwar Hussain
2.	Arun Kumar Chunarkar Kago Roring Shounok Chakraborty Kishan Kumar Rai	D/20/EC/005 D/20/EC/009 D/20/EC/018 D/20/EC/011	Study of Modular Electric Drive Unit for Various Applications	Prof. Rajesh Kumar
3.	Tamo Taping Ashok Gurjar Prakash Sharma Christopher Yaying Tavipu Frederick Domai	D/20/EC/021 D/20/EC/025 D/21/EC/205 D/20/EC/113 D/20/EC/002	IoT-based Emergency Alert System	Prof. Tripurari Sharan
4.	Bishakha Gogoi Yashikala Yaden Liza Deka Nipu Bhuyan Shiv Shankar Kumar	D/20/EC/024 D/20/EC/014 D/21/EC/204 D/21/EC/210 D/21/EC/213	Smart Switching Control System	Prof. Joyatri Bora Hazarika
5.	C. Vignesh Naman Raj Sandip Bhattacharjee Vikash Sahani	D/20/EC/030 D/21/EC/202 D/20/EC/022 D/20/EC/026	EMG-driven 3D printed lower limb design for physically disabled people	Prof. Madhusudhan Mishra
6.	Jyoti Sneha Yadav Lorhenu Kennao T. Helena Sor Sanu Tamang	D/20/EC/027 D/20/EC/013 D/20/EC/015 D/20/EC/017	Identification of Various Human Diseases Using Machine Learning Techniques	Prof. Madhusudhan Mishra
7.	Apekshit Srivastava Arghya Ghosh Pragjyotish Hazarika Sunil Angom Moirangthem Henary Singh	D/20/EC/020 D/20/EC/008 D/20/EC/010 D/20/EC/107 D/21/EC/203	Design and implementation of a rain gauge with a temperature sensor by using Bare metal programming on the STM32F411RE ARM Cortex M4 development board	Prof. Pranab Kishore Duta
8.	Richa Sharma Dimpny Borgohain Naorem Somani Devi Subharthi Roy	D/20/EC/112 D/20/EC/108 D/20/EC/012 D/20/EC/019	DOUBLE CHANNEL MIRRORED AlGaIn/GaN HEMT PROJECT	Dr. Ashok Kumar Ray
9.	Jonak Saha Ansh Sandilya Aditya Kumar Dhiraj Shah Himadri Pradhan	D/20/EC/114 D/20/EC/023 D/20/EC/106 D/20/EC/004 D/20/EC/028	Brain Tumour Segmentation Using U-Net	Mr. Rusni Kima Mangang
10.	Yash Kumar Bishal Ghosh Arnab Jamatia Sagarika Tripura Sebastian Pamei	D/20/EC/001 D/20/EC/105 D/20/EC/016 D/21/EC/212 D/20/EC/006	Accident Detection and Alert Management System	Mr. Anil Kumar Gautam
11.	Yash Kumar Bishal Ghosh Arnab Jamatia Sagarika Tripura Sebastian Pamei	D/20/EC/001 D/20/EC/105 D/20/EC/016 D/21/EC/212 D/20/EC/006	Accident Detection and Alert Management System	Mr. Anil Kumar Gautam
12.	Abir Sengupta Srikanta Das Hovita Neikha Suraj Kumar Huten Ronald Wilson	D/20/EC/003 D/21/EC/211 D/20/EC/101 D/20/EC/102 D/21/EC/208	Internet Of Things (IoT) Based Monitoring System for Comatose Patients.	Mr. Akho John Richa



13.	Bhabesh Deori Ningthoujam Baron Singh Anand Singh Monjyoti Gam Saphaba Yambem Cha	D/20/EC/029 D/20/EC/109 D/20/EC/115 D/20/EC/104 D/21/EC/206	SUBSTRATE INTEGRATED WAVEGUIDE CHEBYSHEV BANDPASS FILTER	Mr. Moirangthem Edison Singh
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Courses/FDP/Seminars/Workshops/Conferences Organised at the ECE Department.

Sl. No.	Courses/Seminars/Workshops/Conferences Areas & Title	Coordinator	Duration	Funding Agencies
1.	One-week ATAL-sponsored FDP on "AI and Data Analytics for Healthcare: Transforming the Future of Medicine"	Prof. Madhusudhan Mishra Mr. R K Mangang	August 26 to 31, 2024.	AICTE-ATL
2.	05 Days Training Programme on "Data science using Python and Matlab"	Prof. P. K. Dutta Prof. Madhusudhan Mishra	29 th April 2024 to 3 rd May 2024.	NIELIT in association with NERIST
3.	10th International Conference on Computers, Management & Mathematical Sciences (ICCM)-2024 jointly organized by the NERIST and NIT Arunachal Pradesh in association with California State University, San Bernardino (CSUSB), USA, and International Association of Academicians (IAASSE)	Prof. Madhusudhan Mishra (Publicity chair)	26-27 July 2024	International Association of Academicians (IAASSE)
4.	Online FDP on "The Art of High-Quality Research Publishing," organized by the E&ICT Academy, IIT Guwahati, and NERIST	Prof. Madhusudhan Mishra Mr. Rusni Kima Mangang Mr. Moirangthem Edison Singh Mr. Akho John Richa Mr. Anil Kumar Gautam	January 6 to 10, 2025	E&ICT Academy, IIT Guwahati
5.	A two-week online "Technology-enabled Teaching, Learning & Process for Institutes" organized by the E&ICT Academy, IIT Guwahati, and NERIST	Ashok Kumar Ray Madhusudhan Mishra	February 3 to 14, 2025	E&ICT Academy, IIT Guwahati
6.	One-week online Faculty Development Programme on "Harnessing the Power of AI: A Comprehensive FDP for Faculty and Researchers"	Prof. Madhusudhan Mishra Mr. Rusni Kima Mangang Moirangthem Edison Singh Akho John Richa Anil Kumar Gautam	March 24 to 28, 2025	E&ICT Academy, IIT Guwahati

4.5.5 Short-term courses/Seminars/Workshops/Conferences attended by the faculty

Sl. No.	Name of Faculty/ Staff attended	Description of STTP/ Training Programme	Period	Organized by
1	Prof. Joyatri Bora Hazarika	One-week MDP on "Nurturing Future Leadership Program" under (MMTTP)	24 th – 28 th June 2024	IIM Shillong
		7 days short term course, "Role of AI powered Techniques for next Generation IoT Network"	16 th – 22 nd July 2024	Department of EEE, ABV- Indian Institute of Information Technology and management, Gwalior
		One day Workshop RESONANCE ISRO-RAC-S, GU	8 th August 2024	Guahati University



2	Prof. Madhusudhan Mishra	One-week MDP on "Nurturing Future Leadership Program" under (MMTTP)	March 11 th - 15 th , 2024	IIM Shillong
		National Workshop for Regional Coordinating Institutions to deliberate on future plans and strategies to strengthen the Unnat Bharat Abhiyan program organized by UBA, IIT Delhi	March 18-19, 2024	IIT Delhi
		3-day Face-to-Face FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) at North Eastern Regional Institute of Science and Technology, Itanagar	7th February to 9th February 2025	NERIST
		Presented a research paper: "MFeRNet: A Deep CNN Approach for Detecting Median Filter Tampering in Re-Compressed Images" & chaired a session at the IEEE 29th Asia Pacific Conference on Communications (APCC) held in Indonesia	5 to 7 November 2024	IEEE, APCC-2024, Indonesia
3	Prof. P. K. Dutta	5 days short term course on NEP orientation & sensitization under Malaviya Mission Teacher training Programme (MM-TTP) of UGC	06-08-2024 to 16-08-2024	MMTTC, Tezpur University
4	Mr. R.K.Mangang	5 days short term course on NEP orientation & sensitization under Malaviya Mission Teacher training Programme (MM-TTP) of UGC organised by UGC-Malaviya Mission Teacher training Programme Center	27-05-2024 to 05-06-2024	DDU Gorakhpur Univeristy, Gorakhpur
5	Mr. Anil Kumar Gautam	2 weeks FDP on Technology-enabled Teaching, Learning & process for Institutes	03 - 14 February, 2025	E&ICT Academy and MeitY
		2 weeks (10 - 14 February, 2025) FDP on Emerging Trends in FPGA-Accelerated Machine Learning in VLSI		E&ICT Academy IIT Roorkee in association with Dayanand Sagar University Bangalore
		2 weeks (17 - 26 February, 2025) FDP on Intricacies of Analog & Mixed Signal IC Design		E&ICT Academy and MeitY
6	Mr. Moirangthem Edison Singh	6th NEP 2020 Orientation & Sensitization Programme	27.05.2024 to 05.06.2024	DDU Gorakhpur Univeristy, Gorakhpur
		Art of Living Capacity Building Program	30 Jan to 10 Feb 2023	AICTE-ATAL

4.5.6 New Degrees/Professional Memberships obtained by the faculty:

Sl. No.	Name of the Faculty	New Degrees/Professional Memberships obtained by the faculty
1	Prof. Rajesh Kumar	IEEE Membership is obtained by Prof. Rajesh Kumar continuing till Dec., 2025.
2	Prof. Madhusudhan Mishra	IEEE Senior Member, Fellow IEI, Lifetime member of Indian Society for Technical Education (ISTE), Lifetime member of the Institute of Electronics and Telecommunication Engineers (IETE)
3	Prof. P. K. Dutta	IEEE Annual Membership: Prof. P.K. Dutta, continued their membership from 2024 to Dec. 2025. Dr. P.K. Dutta was elevated to fellow IEI.



4	Mr. R.K.Mangang	IEEE Annual Membership: Mr. R.K.Mangang, continued their membership from 2024 to Dec. 2025
5	Mr. Anil Kumar Gautam	IEEE Annual Membership: Mr. Anil Kumar Gautam, continued their membership from 2024 to Dec. 2025. IEI (India) Membership: Mr. Anil Kumar Gautam, continued their membership from March 2024.
6	Mr. Moirangthem Edison Singh	IEEE Annual Membership: Mr. R.K.Mangang, continued their membership from 2024 to Dec. 2025

4.5.7 Achievements/awards/recognition earned by the faculty:

Sl. No.	Name of Faculty	Details of the Achievements/Awards/recognition
1.	Prof. Rajesh Kumar	<p>PhD Thesis Examiner for University of Delhi, New Delhi Integral University, Lucknow Manonmaniam Sundarnar Univeristy, Tirunelveli, Tamilnadu.</p> <p>Resource Person in FDP on Recent Trends in Embedded Systems Application in Mechatronics, Robotics, AI/ML and Biomedical Engineering at NIT Arunachal Pradesh.</p> <p>Session Chair in IEEE conference ICAIC-2025, University of Houston, TX, USA.</p>
1.	Prof. Joyatri Bora Hazarika	<p>Reviewed journal paper for journal "International Journal of Communication", "IET Communication", "International Journal of Electronics".</p> <p>External Examiner for MTech Dissertation in Rajiv Gandhi University, Rono Hills, Doimukh on 29th May 2024 and 18th December 2024</p> <p>Doctoral committee member of PhD Scholars in the Department of ECE, EE, CSE, and Center of management studies.</p> <p>Reactivated the ISTE student Chapter of NERIST after taking charge of ISTE Institute coordinator.</p>
2.	Prof. Madhusudhan Mishra	<p>Delivered a talk on "Governance and Capacity Building of teachers for quality education" on 25.11.2024 in the online "NEP 2020: Necessitating Change in Management of Higher Education" scheduled during 21st Nov to 26th Nov 2024 organized by Malviya mission teacher training center (MMTTC) Assam University Silchar.</p> <p>Invited talk on "Phonocardiogram Analysis for Well-Being Assessment" in the webinar organized by the IEEE SPS Student Branch Chapter, IIT(BHU) Varanasi 02-06-2024.</p> <p>Served as a Session Chair at Asia-Pacific Conference on Communications (APCC) - 2024, Indonesia hosted by the IEEE Comsoc Indonesia Chapter, November 5th to 7th, 2024.</p> <p>Advisor to the Governing body of the NERIST SPIC-MACAY club: Society for the Promotion of Indian Classical Music and Culture Amongst Youth (2024- present)</p> <p>External Expert for the second year M. Tech., Department of Electrical Engineering & CSE, NERIST theses evaluation 2023 & 2024.</p> <p>Member of the Doctoral Committee for Electronics & Communication Engineering Department, Computer Science & Engineering Department, Electrical Engineering Department, Agricultural Engineering Department, Mechanical Engineering Department, and Centre for Management Studies.</p> <p>Member, Department Post Graduate Committee of Electrical Engineering, NERIST (2024- present).</p> <p>Member, NERIST Website Upgradation Committee (2024- present)</p> <p>Served as External Expert for B Tech project evaluation at Tezpur University, Assam.</p> <p>Member: Research Advisory Committee (RAC), Department of IT, Tripura University.</p> <p>External Evaluator for M. Tec. in Bioelectronics project, & M Tec. In Electronics Design and Technology Spring Semester End Examination 2024, ECE Department, Tezpur.</p>



		<p>Delivered an invited talk for a seminar titled “Evolving Computational models in problem solving: Applications in Health, Industry and beyond” held on 6th March 2025 in the Department of CSE, Rajiv Gandhi University, Arunachal Pradesh.</p> <p>Reviewer of IEEE Transactions on Instrumentation and Measurements, IEEE Sensor Journal, IEEE Access Journal, Innovation and Research in Bio-medical Engineering, Elsevier, Journal of The Institution of Engineers (India): Series B (IEIB), Springer.</p> <p>Co-supervised PhD thesis: “PhD Thesis Title: “A Study of Fundus Image Analysis for Well-being Assessment”. Name of Scholar: Smita Das, Department of IT, Tripura University. (Supervisor: Prof. S Majumder, Co-supervisor: Dr. M Mishra), Date of award: 19/12/2024.</p>
3.	Prof. P. K. Dutta	<p>TPC Chair of IEEE Guwahati subsection Conference 2025 (GCON2025)</p> <p>ECE Department BOS Member 2023-24 to 2025-26</p> <p>ECE Department DPGC member from 2023-24 to 2025-26</p> <p>DPGC external member of ME Department from 2023-24 to 2025-26</p> <p>Two thesis evaluated (PhD Thesis examiner of NEHU Shillong/CIT Kokrajhar)</p>
5.	Dr. Ashok Kumar Ray	<p>Member, Department Post Graduate Committee of Electrical Engineering, NERIST (2024- present).</p> <p>Member, Board of Studies (BoS), NERIST (2024- present).</p>

4.5.8 Projects sanctioned by outside agencies to the faculty of the Department:

Sl. No.	Name of the PI and Co-investigator	Details of the Project	Duration
1.	Prof. Madhusudhan Mishra Dr. Santosh Tamang	Establishing a Centre of Excellence in 3D Printing for Dental Applications under the PMDeVINE scheme funded by the Ministry of Development of North Eastern Region (DoNER).	Ongoing 2024-2029
2.	Dr. Ashok Kumar Ray Mr. Akho John Richa	Received ‘Cadence’ Software through C2S	2024
3.	Dr. Ashok Kumar Ray	Received ‘Synopsis’ Software through C2S	2024
4.	Dr. Ashok Kumar Ray	Setup IoT and AI Lab through Divyasampark iHub, IIT Roorkee	2024

Publications:

(a) Referred Journal

Sl. No.	Name of the Faculty	Journal Publication Details
1.	Prof. Rajesh Kumar	Shrivastava A, Yadav A, Kumar R (2024) CPW-Fed Dual Band Dual Polarized Antenna for Wearable Applications. Journal of Scientia Iranica doi: 10.24200/sci.2025.65070.9282
2.	Prof. T. Sharan	Gautam AK, Sharan T (2024) Bulk cum Quasi-Floating Gate Driven Current Mirror OTA using FVF and Double Recycling Structure with High Capacitive Load Drive Ability. Journal of Integrated Circuits and Systems 19:1–11
3.	Prof. Madhusudhan Mishra	<p>Das S, Chakraborty S, Mishra M, Majumder S (2024) Assessment of retinal blood vessel segmentation using U-Net model: A deep learning approach. Franklin Open 8:100143. https://doi.org/10.1016/j.fraope.2024.100143</p> <p>Das S, Mishra M, Majumder S (2024) Identification of Glaucoma from Retinal Fundus Images using Deep Learning Model, MobileNet. ECTI Transactions on Computer and Information Technology 18:371–380. https://doi.org/10.37936/ecti-cit.2024183.256182</p> <p>Divvala C, Mishra M (2024) Deep Learning-Based Attention Mechanism for Automatic Drowsiness Detection Using EEG Signal. IEEE Sensors Letters 8:1–4. https://doi.org/10.1109/LSSENS.2024.3363735</p>



4.	Dr. Ashok Kumar Ray	Nabojwal Acharjee, Sarita Singh, Anil Prasad Dadi, Sushanta Bordoloi, and Ashok Kumar Ray , 'Investigation of High-k Dielectric Passivation Effects on DC Performance of AlN/ β -Ga2O3 HEMTs', Semiconductors, Vol. 59, No. 5, pp. 452-464, 2025.
5.	Mr. Anil Kumar Gautam	Gautam AK , Sharan T (2024) Bulk Cum Quasi-Floating Gate Driven Current Mirror OTA Using FVF And Double Recycling Structure With High Capacitive Load Drive Ability. Journal Of Integrated Circuits And Systems 19:1-11 Anil Kumar Gautam, Tripurari Sharan, "CMOS REALIZATION OF CFOA BASED ON CLASS AB SUBTHRESHOLD CURRENT MIRROR OTA AND APPLICATIONS", ICTACT Journal On Microelectronics, Vol. 10, No. 1, Pp. 1717-1726, April 2024. Anil Kumar Gautam, Tripurari Sharan, "Bulk Cum QFG-Driven FVF Double Recycling Current Mirror Subthreshold OTA Based CCII+ Cell And Applications", International Journal Of Electrical And Electronic Engineering And Telecommunications, Vol. 13, No. 6, Pp. 467-477, November 2024. 2.

(b) Conference Papers:

Sl. No.	Name of the Faculty	Conference Paper Details
1.	Prof. Rajesh Kumar	Shrivastava A, Kumar R , Kurmendra (2025) Design and Analysis of Microstrip Patch Antenna Using Metamaterial for Biomedical Applications. In: 2025 IEEE 4th International Conference on AI in Cybersecurity (ICAIC). pp 1-4 Saikia B, Kumar R , Dixit MM (2024) A Comparative Study on Decomposition Methods for Biomedical Signals. In: Emerging Frontiers in Mathematical and Computational Sciences (EFMCS-2024) NEHU, Shillong, India
2.	Prof. Madhusudhan Mishra	Kadha V, Reddy KR, Das SK, Mishra M (2024) MFeRNet: A Deep CNN Approach for Detecting Median Filter Tampering in Re-Compressed Images. In: 2024 IEEE 29th Asia Pacific Conference on Communications (APCC). pp 246-251 Das S, Mishra M , Majumder S (2025) Automatic Detection of Glaucoma from Retinal Fundus Images Using Convolutional Neural Network Model, Xception. In: World Congress on Smart Computing: Proceedings of WCSC 2024. Springer Nature, p 195 Das K, Pal D, Mishra M (2024) Phonocardiography (PCG) Categorization Using Deep Models. In: 2024 2nd World Conference on Communication & Computing (WCONF). pp 1-5
3.	Prof. P. K. Dutta	Dalvi Talukdar, Akho John Richa, Pranab Kishore Dutta, Low Power Low Leakage Domino Circuit for Wide Fan-in Gates: A Review, 3rd IEEE International Conference on Intelligent Systems, Advanced computing and communication 27 - 28 February, 2025, Silchar, India Susankar Borgohain, Khrishtina Dutta, Rashmi Choudhury, Niranjana Jyoti Borah, Ruchira Mazumdar, Mriganka Gogoi, Pranab Kishore Dutta, Design of Temperature Resistant Dual Band VCO with Integrated TFC Circuit for Studying Aging Affect using Machine Learning Framework, 10th IEEE International Nanoelectronics Conference IEEE INEC 2025, 3-6 Jan 2025 Taiwan. Mriganka Gogoi; Abhijit Buragohain; Abu Mahamed Adil; Archana Devi Mahato; Pranab Kishore Dutta, Design of a Novel PLL for Application in Distributed High Frequency Bands, 6th IEEE International Conference on Energy, Power and Environment (ICEPE) 2024, Shillong, India. Joyson Nehgoulun Hangshing, Sapna Rani Ghimray, Pranab Kishore Dutta, "High speed low leakage and power efficient Domino Logic circuit for wide fan in gates", IEEE International Conference on Integrated Circuits, Communication, and Computing Systems (ICIC3S), IIT himachal Pradesh, June 2024.
4.	Dr. Ashok Kumar Ray	B. Prakash, V. Maitra, A. P. Dadi, A. K. Ray , and S. Bordoloi, "Investigation of AlGaIn/GaN HEMT Device Performance with Variation of GaN Cap Layer Thickness along with Doping Concentration," in <i>2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT)</i> , 2024, pp. 1-6, doi: 10.1109/ICCCNT61001.2024.10724793. A. P. Dadi, E. B. Prakash, V. Maitra, A. K. Ray , and S. Bordoloi, "Effect of Buried depth, Thickness of Channel and Gate length on Breakdown Voltage in AlGaIn/GaN HEMT," in <i>2024 12th International Conference on Internet of Everything, Microwave, Embedded, Communication and Networks (IEMECON)</i> , 2024, pp. 1-6, doi: 10.1109/IEMECON62401.2024.10846033.

**(c) Books:**

Sl. No.	Name of the Faculty	Book Details
1.	Prof. Madhusudhan Mishra	Das S, Mishra M , Majumder S (2025) Detection of Diabetic Retinopathy from Retinal Fundus Images by Using CNN Model ResNet-50. In: Deep Learning in Biomedical Signal and Medical Imaging. CRC Press, pp 1–13 Co-edited Book: Ashokkumar Patel, Nishtha Kesswani, Madhusudhan Mishra, Preetisudha Meher, eds. “Advances in Machine Learning and Big Data Analytics” 2025, Volume 441, ISBN: 978-3-031-51337-4: ICMLBDA: International Conference on Machine Learning and Big Data Analytics, NIT Arunachal Pradesh, India, May 29-30, 2023, Springer Nature, 2025.
2.	Prof. P. K. Dutta	Moirangthem Edison Singh, Pranab Kishore Dutta, Mode Suppression in SIW Bandpass Filter for K-Band Applications, International Conference on Communication, Devices and Networking Lecture Notes in Electrical Engineering ((LNEE,volume 1233)) October 2024
3.	Mr. Moirangthem Edison Singh	Edison Singh M , Dutta PK (2025) Mode Suppression in SIW Bandpass Filter for K-Band Applications. In: Sharma B, Do D-T, Sur SN, Liu C-M (eds) Advances in Communication, Devices and Networking. Springer Nature Singapore, Singapore, pp 23–34

4.5.9 Interaction of faculty/Department with outside agencies:

Sl. No.	Name of the Faculty	Interaction activity
1.	Prof. Rajesh Kumar	BoS External member of Department of ECE, Rajiv Gandhi University, Rono Hills, Doimukh, Itanagar. Member of Doctoral Committee and External Examiner for PG Programme of IT Department, Tripura University, Agartala
2.	Prof. Joyatri Bora Hazarika	BoS External member of Department of ECE, Rajiv Gandhi University, Rono Hills, Doimukh, Itanagar.
3.	Prof. Madhusudhan Mishra	Academic Editor (Associate Editor), Journal: Frontiers in Biomedical Signal Processing (2024- present) Vice Chair IEEE Kolkata Section and Guwahati Subsection, IEEE EMBS Joint Chapter (2024- present) Member of the Electrical Expertise Committee for the Department of Power, Government of Arunachal Pradesh, for providing technical assistance, consultancy, and guidance (2024- present) Member of organizing events like seminars/ conferences in collaboration with other Institutes Tezpur University, NIT Arunachal Pradesh and IIT Guwahati. Member: Website and social media Sub-Committee, IEEE Guwahati Subsection (2023- present). Nodal Officer for NERIST & Assam Electronics Development Corporation Limited (AMTRON) for 3D Printing Lab (Dental) (2024-present) Nodal Officer for NERIST & Arunachal Pradesh Industrial Development & Financial Corporation Ltd (APIDFCL), a Government of Arunachal Pradesh Undertaking.
4.	Prof. P. K. Dutta	Panellist at the ‘Semiconductor Awareness’ Workshop at Jagiroad College, jointly organised by Assam NEISED in association with NELIT, Guwahati, VLSI Society of India and Jagirod College on October 25, 2024 External member of Tezpur University, Assam ECE Department BOS (Post graduate and under graduate) BPGS external member of Tripura University, ECE Department External Expert for Pre-Phd public Seminar of IT Department Tripura University. ECE Department BOS External Member of Kaziranga University, Assam External subject expert in the Ministry of Electronics and Information Technology (MeitY), Government of India sponsored research project, NEHU Shillong from April 2024 for five years. External examiner of B.Tech Project and Lab examination of ECE Department Tezpur University.



4.5.10 Consultancy projects undertaken:

Prof. Madhusuddhan Mishra is a member of the Electrical Expertise Committee for the Department of Power, Government of Arunachal Pradesh, for providing technical assistance, consultancy, and guidance (from 2024). Prof. Madhusuddhan Mishra is a member of the OctaNE Centre of Entrepreneurship (CoE) at Itanagar for Geographic Information System (Inc. Drone Tech) under the Ministry of Electronics and Information Technology (MeitY) (from 2024).

4.5.11 Achievements of Students:

Sl. No.	Achievements
1.	07 number of students qualified GATE-2024 and 03 number of students qualified GATE-2025.
2.	Some of the May-2024 pass out students and currently final year students of the Department have been placed in reputed organisation.
3.	Some of the GATE qualified students pursuing higher studies at reputed IITs, NITs and other centrally funded institutes.
4.	03 Number of PhD students have submitted their thesis.

4.5.12 Any other information:

- The Department of Electronics and Communication Engineering has been NBA-accredited for B. Tech. Programme for Three Years from July 2024 up to June 2027.
- Prof. (Dr.) Rajesh Kumar has been appointed as Controller of Examination, NERIST w.e.f. July 2024. He is handling additional responsibilities such as the Coordinator, Centre for Skill Development, Nodal Officer, ADF (AICTE Doctoral Fellowship), and Co-Ordinator, Institute Industry Cell.
- Dr J. Bora Hazarika took charge of the Head of the Department, Department of ECE on 17/09/2024. Additionally, she is the Chairman, House Allotment Committee, Chairperson of K.G. School, NERIST w.e.f. March 2023, and also the Institute’s NBA Member Secretary since 2024. She is also the Nodal Officer for NERIST for the Visvesvaraya PhD Scheme of the Ministry of Electronics and Information Technology.
- Dr Madhusudhan Mishra has been appointed as the Institute’s UBA Coordinator and nodal officer for the PM-DevINE Project since 2024. He is handling additional responsibilities of Institute Electrical Engineer (2019- present), Member of the Institute’s Planning and Monitoring Committee (2019- present). Member, Institute Space Allotment Committee (2019- present). Member, Institute Building and Work Subcommittee (BWSC) (2019- present). Member, Estimate &Vetting Committee (2021- present). Institute Coordinator: Unnat Bharat Abhiyan (2023- present), Chief Coordinator SHRISTI: Institute’s Techno Management fest (2023, 2024, 2025).
- Dr P. K. Dutta has taken charge of the Chairman, CTTC w.e.f. February 2025. He is handling additional responsibilities such as Chairman, Telecom, a member of DPGC, BPGS, and Institute MOOCs coordinator from July 2021 to February 2025.
- Mr R.K. Mangang has become a Member, CTTC w.e.f. February 2025, and nominated as a BOS member of the ECE Department.
- Mr Anil Kumar Gautam has become a Member, IDP Coordinator w.e.f. August 2024, nominated as an ISTE member of the ECE Department, nominated as MOOCs Coordinator of the ECE Department, and nominated as UGC Matters Coordinator of the ECE Department.
- Mr Moirangthem Edison Singh is the Nodal Officer IRINS, Program Officer NSS, Web-coordinator, Research and Development Centre.



4.6 DEPARTMENT OF ELECTRICAL ENGINEERING

4.6.1 A Brief Profile of the Department:

The Department of Electrical Engineering has been at the forefront of cultivating exceptional scientists and technologists since its establishment. The pioneering batch graduated in 1992, marking the beginning of a legacy. Admission to the Department is facilitated through the NERIST Entrance Examination—comprising NEE-I, NEE-II, and NEE-III—and via the JEE mains conducted by JoSAA. In addition to undergraduate programs, the Department offers specialised Postgraduate (M. Tech.) programs in Power System Engineering, as well as PhD programs, tailored to meet the ever-evolving demands of the field. Our faculty members, who hold esteemed PhD or M. Tech degrees from renowned Indian institutes, are distinguished experts in their respective areas. We continually upgrade our infrastructure and laboratory facilities to provide students and researchers with ample opportunities for learning and innovation. Moreover, the Department actively undertakes various research projects sponsored by both governmental bodies and industry partners, further enriching the academic and practical landscape of Electrical Engineering.

4.6.2 Academic activities:

The Department of Electrical Engineering operates through three primary research groups: (i) Electrical Power and Energy Systems, (ii) Control and Instrumentation, and (iii) Electrical Machine Drives and Power Electronics. In addition to providing engineering education at both undergraduate and postgraduate levels, the Department engages in consultancy services and collaborative endeavours with diverse organisations. Numerous sponsored research projects have been completed, with several ongoing, as part of the Department's ongoing commitment to institute-industry interaction. Regular conferences, workshops, seminars, and symposia are organised by the Department, focusing on various specialised areas of Electrical Engineering. These events attract participation from faculty members and professional engineers nationwide. Furthermore, both faculty members and students have contributed significantly to the field, with a multitude of research papers published in national and international journals and conferences.

4.6.3 Laboratories and Major Equipment:

The Department has 13 well-equipped laboratories and a library to facilitate students and faculty members to access books and journals/periodicals, which are indispensable for Electrical Engineering professionals. Keeping pace with ever-growing technological advancement, the Department has several PC servers and workstations hosting several software packages and linked through a local area network (LAN). Uninterrupted internet connectivity is available for the students and faculty members. A Smart Classroom has been developed in the Department. The Labs are equipped with COMSOL Multiphysics, PSSE, PSCAD, MATLAB and Dig Silent software. The practical classes further supplement the theoretical knowledge imparted to the students. Some of the equipment and software available in the various laboratories are detailed as follows:

Power System Laboratory

Power System lab is equipped with Distribution Line Simulator, PC controlled Power Analyser, Oil test set, Different types of Electromagnetic and Static Relays, Dielectric Purification Plant, Analog Oscilloscope, Digital Storage Oscilloscope, 3-phase Variable Inductor, 1-phase and 3-phase Loading Rheostats, Digital Clamp or Power meters, LCR-Q meter, 3-phase Capacitor Bank, Capacitance and Tan Delta Test Set, Circuit Breaker Analyser, Liquid Dielectric Purification Plant.

High Voltage Laboratory

This lab houses the latest 100 kV AC/145 kV DC Dielectric Test Set & 300 kV, 7.5 kJ, 1.2/50 microsecond Impulse Test Set, Measuring Sphere Gap MF-100, Electronic Sphere EZK, 2-Channel, 200MHz Digital Storage Oscilloscope with software for direct transfer of data from Oscilloscope to PC, AC Breakdown Voltage Test Set, Oil Tan delta, DGA apparatus, Viscometer, Hot air oven and Vacuum Oven.



Electrical Machine Laboratory

Electrical machine lab has wide range of motors and generators including DC Compound Motor, DC Compound Generator, 3-phase Induction Motor, both Squirrel Cage and Slip Ring type, DC Shunt Motor, DC Series Motor, Universal Motor, AC Synchronous Generator, AC Synchronous Motor, Scan Drive System for DC and AC Drive Speed Control, Motor Fault Simulator, Logic Pulse Generator, Function Generator, Digital Storage Oscilloscope, 3-phase Fluke Power Analyser, 1-phase Induction Motor and Thyristor Control Panel, DG set, Stepper Motor Training System, PWM based Induction Motor Drive, V/f Controlled AC Drive, d-Space Real Time Simulator software.

Power Electronics Laboratory

This lab is equipped with EMMA Microcomputer, Fast AD/DA converter, DDC Motor Module, Command Potentiometer, LCR Q-tester, SCR Firing Unit, Industrial Electronics Trainer with Oscilloscope, Digital Storage Oscilloscope (4-channel), HP Computer (Pentium-IV), Motion Control Development Kit, MCK240 Development Package with Kit, Thyristors and Motor Control (Make: Feedback, UK), Power-scope, Oscilloscope (Make: Yokogawa), CASPOC Simulation Software, Bedford and Parallel Inverter Trainer kit, Micro Controller based Firing Circuit for Controlled Rectifier trainer kit, Speed Control of Universal Motor using SCR Trainer kit, 1-phase controlled Rectifier with cosine Firing Scheme Trainer kit, 1-phase Controlled Rectifier with Ramp comparator firing scheme Trainer kit, IGBT characteristics Trainer kit, 1-phase Cyclo-Converter Trainer kit, Speed Control of AC Motor using TRIAC Trainer kit.

Digital Electronics and Microprocessor Laboratory

This lab is equipped with Microprocessor Training Kits such as Dyna 8085, STAR 85, VPL 8086/8088, Micro controller training Kit such as VMC-ICE31/51 and 80C196KC, Advance Handy Serial Programmer, Universal Programmer, Universal and Analog IC tester, Data Acquisition Software, Study Cards such as Memory Decoders, Usart, Programmer Timer, DMA, PPI with timer and Latch Cards, PC based Analog and Digital motor control teaching set, Robotics, Thermocouple, Load Cell, LVDT and DC motor speed control, 485 Protocol based Distributed Control System, Gain Measuring Instruments.

Electrical Maintenance Laboratory

This lab is mainly for the students of the Certificate module who are expected to learn hands-on training on the repair and maintenance of electrical appliances. Number of appliances such as Domestic Refrigerator, Air conditioners, Geysers, Heat Convector, Table and Ceiling Fans, Vacuum Cleaner, UPS set, Water Cooler, Hot Plate, Immersion Heater, Different types of lamps with fittings, Oscilloscopes, Working Models for Electrical Circuits of Automobiles (in order), etc.

Electrical Workshop

This lab is also dedicated to the students of the Certificate module, who are expected to learn hands-on training on electrical wiring and related activities. This laboratory is equipped with a Mini Lathe Machine, a Winding Machine, a Drilling Machine, a Cubical for different types of Wiring Practice, Necessary tools, Tools Display Boards, 1-phase and 3-phase Energy meters, Charts, etc.

Circuits and Measurement Laboratory

This lab is equipped with Wave Analyser, Double Channel Recorder, Analog Oscilloscope, DC Power supply unit (0-300V), DC power supply (0-60V) and Storage adapter, Wheatstone Bridge, Kelvin Double Bridge, VTVM, Instrumentation Tutor, Digital Storage Oscilloscope (2-channel), HP Computer (Pentium-III), LCR-Q Meter, Megger, etc. are some of the equipment available in this lab.

Control and Instrumentation Laboratory

This lab has DC Position Servo Trainer Unit, AC Servo Motor Speed/Torque Control Unit, DC Motor Speed Control Unit, Magnetic Amplifier, Synchro Transmitter and Receiver, Experimental PID Controller Unit, Digital ON-OFF Temperature Controller Unit, Analog and Digital Storage Oscilloscope (4-channel), Training and Development System for 8086, Data Acquisition of Control system, Direct Digital Control Training System, IBM Computer (Pentium-III), CA-06 Digital Motor, PC based Analog and Digital Motor Control, Distributed Control system DCS-5000, PC 45/ML programmable control teaching set, Digital Transducer and Instrumentation Trainer, Direct Digital Control System (CA-04), Rotary Servo 9 Plant (Servo 2).

**PC Laboratory**

The Department has a well-furnished PC lab for undergraduate students with more than 40 computers with internet connectivity. Software such as MATLAB, Multisim, etc., is installed in all the computers.

Energy Laboratory

In this lab, energy-related experiments are performed by both undergraduate and postgraduate students. The lab is equipped with advanced experimental setups such as Photo Voltaic Test Rig, Photo Voltaic Electric Generator, anemometers, solarimeter, etc. Experiments are carried out to plot I-V characteristics of PV modules, determine the efficiency of a PV-driven water pumping system, etc.

Research and Project Laboratory

This lab is dedicated mainly to postgraduate students and research scholars for modelling and simulation works, along with hardware implementation. Twenty PCs with 4 GB RAM have been provided in the lab. Uninterrupted internet connectivity is made available. Students can browse and download journal/conference papers from institutionally subscribed sites such as IEEE Explore, Science Direct, Elsevier, etc. The lab houses software like COMSOL, MATLAB, PSCAD, PSSE, etc.

VLSI Laboratory

The VLSI lab is equipped with Cadence PG Bundle and Mentor Graphics HDL Simulator.

4.6.4 Projects/Thesis completed by the UG/PG/PhD students.

	Sl. No.	Title of the Project/Thesis	Name of the Guide/ Supervisor
UG Projects (B.Tech)	1.	Position controlling of a DC motor using PID controller	Dr. Akhilesh Sharma
	2.	Noise Cancellation techniques	Prof. TVP Singh
	3.	Design of a solenoidal magnetic system for Ultra-low temperature applications	Prof. TVP Singh
	4.	Biomass Energy	Dr.N. L Meitei Mrs.Somila Hasnuo
	5.	Design and performance of hybrid Pv-wind generation system	Dr. P. D Singh
	6.	To study & development of transmission line fault detection system	Dr. M.D Singh
	7.	IoT based Online Condition Monitoring of Transformer	Dr.P. D Singh
	8.	Study and development of IoT based circuit breaker	Dr.M. D Singh
	9.	Performance and Economic Evaluation of Wind-Based Microgrid Solutions for Remote Areas in Arunachal Pradesh	NL Meitei
	10.	Integrated Circuit tester	Prof.TVP Singh
	11.	Non-biodegradable waste generating station	Prof. A. Parida
	12.	Design of solar PV augmented energy efficient street lighting system	Dr.P. D Singh
	13.	load frequency control of multi-area system	Prof. R. K. Mehta
	14.	Design of Demand Side Management (DSM) Technology Based on Domestic Lighting	Dr. N. L. Meitei
PG Projects (M.Tech)	1.	Power System Fault Detection and Classification Using ANFIS.	Prof. M.D. Singh
	2.	Design of Maximum Power Point Tracker NN Algorithm.	Dr.N.L. Meitei
	3.	Power Sub-station Monitoring and Control	Prof. R.K. Mehta
	4.	Design and Performance Analysis of EV Battery Charging System.	Dr. A. Sharma Prof. TVP Singh
	5.	Techno-Economic Feasibility Analysis of IoT Integrated Solar Powered Water Pump Solutions in Rural Areas of Arunachal Pradesh.	Prof. S.K. Bhagat Dr. Piyali Das
	6.	Assessing Sesmi Oil for Electrical Equipment: Comparative Analysis of	Prof. A.K Das



		Fresh and Aged Conditions.	
	7.	IoT Based PV Single Phase Inverter.	Dr. P. D. Singh Prof. S. Gao
	8.	Feasibility of Micro-Hydro Power Plant in Meghalaya: A Case Study	Prof. A. K. Singh Prof. Radak Blange
PhD Thesis	1.	Intelligent Algorithms Based Load Frequency Control	Prof. A.K Singh
	2.	Control Strategies for brushless doubly Fed Reluctance Machine for Renewable Power Generation I	Prof. A.Parida Dr.A.K Das

4.6.5 Short-term courses/seminars/workshops/conferences organised at NERIST.

TITLE/ Areas	Sponsored by	Co-ordinator	Duration
1. Short Term Skill Development Training Program on Electrical Technician under PMKVY 4.0	Ministry of Skill Development, GoI	Dr. P. D. Singh, Department of EE, NERIST with Skill Development Cell	22 nd April to 27 th July 2024
2. One day workshop on Vetting of the B. Tech. Curriculum in light of NEP2020- Lectures delivered by Prof. Devender Singh Professor, Dept. of EE-IIT BHU(Academia) and Er. Anirban Bhattacharjee, AGM/Sr.Manager (Electrical), NHPC-Subansiri Project (Industry Expert).	NERIST/MoE Govt. of India	Prof. Radak Blange Prof. TVP Singh	22 nd October, 2024

4.6.6 Short-term courses/seminars/workshops/conferences attended by the faculty.

Sl. No.	Type of Event	Title	Attended by	Duration
1.	FDP	“Harnessing the Power of AI: A Comprehensive FDP for Faculty and Researchers” organized by E&ICT Academy IIT Guwahati in association with NERIST	Dr.N.L Meitei	1 week, 24 th – 28 th March 2025
		Faculty development programme Training on Financing organized by the Department of Educational Finance in the state Academy of Manipur.	Prof. A.k Singh	March 20-21, 2024.
2.	STTP	AI/ML based Controllers Design and their Applications in Real-time Platform (AMCDARP-2024)” Sponsored by IEEE Rourkela Subsection	Dr.N.L Meitei	1 week, 28 th September 2024 to 2 nd October 2024.
3.		6th NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by	Dr.N.L Meitei	2 weeks from 27.05.2024 to 05.06.2024.
4.	STTP	6th NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC), D D U Gorakhpur University, Gorakhpur		27 th May – 5 th June 2024
5.	Workshop	Two Weeks workshop on “capacity Building in Current Industry Designed Technology Collaboration by NIELET& EE Department, NERIST.	Prof.A.K Singh	Two weeks
6.	STTP	Application of AI & ML on Renewable Energy and EV Technologies (AAMREET-2024), NIT-Rourkela	Dr. P.D Singh	8 th – 12 th June 2024
7.	Conference	10th International Conference on Computers, Management & Mathematical Sciences (ICCM2024), NERIST, Nirjuli	Dr. P.D Singh	26 th – 27 th July 2024
8.	FDP	5-Day Residential Faculty Development Program (FDP) on	Dr. P.D	9 th – 13 th Sep 2024



		High Performance Computing (HPC), NERIST, Nirjuli	Singh	
9.	Conference	11th International Conference on Nanomaterials and Materials Engineering (ICNME2024), Bali, Indonesia	Dr. P.D Singh	11 th – 14 th Dec 2024
10.	FDP	Business Start-ups and IPRs by NITTTR Chandigarh, NITTTR Chandigarh	Dr. P.D Singh	20 th – 24 th January 2025
11.	STTP	Technology-enabled Teaching, Learning & Process for Institutes, NERIST-E&ICT IITG	Dr. P.D Singh	3 rd – 14 th Feb 2025
12.	FDP	Harnessing the power of AI: Comprehensive FDP for Faculty and Researchers, NERIST-E&ICT IITG	Dr. P.D Singh	24 th – 28 th March 2025
13.	Conference	6th International Conference on Energy, Power and Environment (ICEPE), Shillong, India, 2024. Paper title on "Performance and Economic Evaluation of wind-based Microgrid solution for Pakke Kessang, Arunachal Pradesh,"	Dr.N L Meitei	3 days From 20th-22nd June 2024
14.	FDP	(a)NEP Orientation & Sensitization Programme (b)Art of High-Quality Research Publishing (c)Business Start-ups and IPRs	Dr.Piyali Das	20 th -29 th August,2024 6 th -10 th Jan 2025 20 th - 24 th Jan,2025

4.6.7 New Degrees and Professional Memberships obtained by the faculty.

Sl. No.	Name of Degree/ Membership	Name of Faculty	Membership No.
1.	Member IEEE	Dr. Akhilesh Sharma	93515011
2.	Senior Member of IEEE	Dr. D P Singh	93314064)
3.	Member of Institute of IAENG	Dr. D P Singh	170360
4.	Member of Institute of Engineers	Dr. D P Singh	1737155

4.6.8 Achievements/awards/recognitions earned by the faculty.

Sl. No.	Name of Achievements/awards/recognition	Name of Faculty	Date
1.	Finalization of Syllabus for the post of JE & EE of Arunachal Pradesh Public Service Commission, Arunachal Pradesh.	Prof. A K Singh	1 st week of April,2025
2.	Trained 17 candidates for Electrical Technician Under PMKVY 4.0 at Skill Development Centre of NERIST	Dr.P.D Singh	22 nd April-27 th July,2025

4.6.9 Projects sanctioned by the outside agencies to the faculty of the Department

Sl. No.	Name of PI/ Co-PI	Project Title	Funding Agency	Date of Sanction	Total Amount	Fund Received During the Year Under Review
1.	Dr. Piyali Das	Science &Technology Intervention of North Eastern Region (Stiner) Spoke in the State of Arunachal Pradesh	NEC and DoNER		2.0 Cr	

**4.6.10 Publications:****a) Referred journal**

Sl. No.	Authors	Title of the Paper	Name of Journal	Vol.	Year	Month	Page No.
1.	P. D. Singh, A. Sharma and T. Byai,	“Overcurrent Protection Issues in Distributed Generation based Microgrid System,”	J. Electr. Syst.,	20 No.3	2024		pp. 8167-8176,
2.	A. Parida, M. Paul:	“Optimum active power tracking-based control of brushless doubly-fed reluctance generator tied to renewable microgrid”, International Journal of Power Electronics and Drive Systems, 2024, 15(1), pp. 429-437. (IF=2.0)	International Journal of Power Electronics and Drive Systems,	15	2024		pp. 429-437.
3.	Radak Blange	Pv Output Power and Its Variable For Battery Charging Application Using Fuzzy Logic Controller	J. Electr. Syst.,	20	2024		pp.6451-6455
4.	D. Lalrochunga, A. Parida, S. Choudhury:	“Systematic review on capacity building through renewable energy enabled IoT-unmanned aerial vehicle for smart agroforestry”	Cleaner and Circular Bio-economy (ELSEVIER),	8	2024		pp.100094.
5.	Radak Blange, A.K Singh	Fuzzy Based Direct Torque Control of Induction Motor for EV Application.	J. Electr. Syst.,	20	2024		Pp 1-6
6.	Anu Kumar Das, Dayal Chandra Shill, and Saibal Chatterjee,	“Exploration of Electrochemical and Thermal Attributes to Evaluate the Performance of Novel Natural Esters”,	IEEE Transactions on Dielectrics and Electrical Insulation,	DOI: 10.1109/TDEI.2023.3325418	2024.		
7.	Anu Kumar Das,	“Exploring SiO ₂ , TiO ₂ , and ZnO nanoparticles in coconut oil and mineral oil under changing environmental conditions	”, Journal of Molecular Liquids,	Vol. 397,	2024,		
8.	Anu Kumar Das, Dayal Chandra Shill, and Saibal Chatterjee,	“Impact of mineral oil on key properties of natural esters under corona discharges, thermal, and electrical breakdown”,	Electrical Engineering,	DOI: https://doi.org/10.1007/s00202-024-02384-x	2024		
9.	Anu Kumar Das,	“Shedding Light on Insulation: Probing the Varied Effects of Illumination and Storage Temperatures on Vegetable Oil Quality”,	IEEE Transactions on Dielectrics and Electrical Insulation,	DOI: 10.1109/TDEI.2024.3400765	2024.		
10.	Debashish Pal, Shiv Kumar Bhagat, G. Shanmugasundar, Ranjan Kumar Ghadai	An efficient tuning method for networked control systems	Discover Applied Sciences, Springer Nature		2024		

**(b) Conference papers**

Sl. No.	Authors	Title of the Paper	Name of Conference	Vol.	Year	Month	Page No.
1.	Dr.N.L Meitei	"Performance and Economic Evaluation of wind-based Microgrid solution for Pakke Kessang, ArunachalPradesh," doi: 10.1109/ICEPE63236.2024.10668876.	International Conference on Energy, Power and Environment (ICEPE), Shillong, India, 2024		2024	June	20-22
2.	P. Devachandra Singh, P. Borah, A. Perme, H. Allo, A. Chatterjee and R. K. Lohar,	"IoT-based Online Condition Monitoring of Power Transformer," 2024	6th International Conference on Energy, Power and Environment (ICEPE), Shillong, India,	doi: 10.1109/ICEPE63236.2024.10668882	2024,	June	pp. 1-6,
3.	H. Kaku, P. Devachandra Singh, M. Deben Singh, “	Universal three phase on-board EV charger using bridgeless non isolated boost buck converter topology”,	11th IEEE- PEDES 2024) organized by Department of EEE, NIT Karnataka, India	DOI: 10.1109/PEDES61459.2024.109611.	2024,	18th – 21st December	
4.	S. Dhanabanta Singh, Th. Suka Deba Singh, M. Deben Singh,	“Optimal Placement of Electric Vehicle Charging Stations within the Distribution Network Utilising Two Distinct Algorithms”,	9th ICMEET 2024 organized by the Software Technology Parks of India (STPI), Kolkata, West Bengal, India & Department of ECE, NIT Mizoram.		2024.	19th - 20th December	
5.	Akhilesh Sharma, Chandan Ray, Angku Kago, Piyali Das, Vikas Pandey and Shashikant,	“Efficiency Optimization of Photovoltaic cells using Maximum Power Point Tracking Method”,	4th International Conference on Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy, 2024.		2024.		
6.	Somila Hashunao	An IOT based Real-Time Solar Power Remote Monitoring System using Solar Tracker System	4th International Conference on Modelling, simulation and Optimization CoMSO 2024 NIT, Silchar		2024		5-11
7.	Somila Hashunao	“Integration of Battery Energy Storage and Photovoltaic Systems in Microgrids: Operation and Performance Analysis”.	10th ICCM,2024		2024	26 th - 27th July	55-61
8.	Somila Hashunao	Biomass as Renewable Energy of Electricity Generation Sector for sustainable”	10th ICCM,2024		2024	26 th - 27th July	46-52
9.	David Lalrochunga, Collin Z Renthlei, Arun Kumar Sarma, Adikanda Parida, Shibabrata Choudhury;	“GIS-Based Image Processing for Farmland Site Selection: An Eastern Himalayan Region Perspective”; 2024;	14th IEEE Conference on Cloud Computing, Data Science & Engineering (Confluence);		2024		pp. 447 - 452
10.	Piyali Das	Load frequently Control for a two-area power	International Conference on		2024	23-26 th March,2	



	system subjective to sliding mode Control,	management, Engineering, science and Humanities MESH 2025			024	
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(c) Books:

Sl. No.	Authors	Title of the Book	Publisher	Year of Publication
1	Dr Akhilesh Sharma, S B Singh and Yogendra Mohan,	"Essence of Physics, Chemistry, and Mathematics."	Blue Rose Publishers, 2024-	2024

4.6.11 Interaction of faculty/Department with outside agencies

S. No.	Name of Faculty	Outside Agencies	Membership of Outside Committees	Executive Committees of Professional Bodies
1.	Dr A K Singh	External Member of DPGC	Civil, Department	DPGC
2.	Do	External Expert/Member BPGC	Electrical Engineering, Tripura University	BPGS Member
3.	Dr.P. D Singh	a) Presented a paper titled, "Review of Additive Manufacturing Techniques of Permanent Magnet for Application in Renewable Energy Generators and EV Motors	11th ICNME 2024 in Bali, Indonesia, December 11-14, 2024.	Presenter Author
		b) Served as Judge in the Inter-Polytechnic College Meet-2024, TechXplore 1.0 on October 3, 2024.	Inter-Polytechnic College Meet-2024, TechXplor	Judge
4.		c) Conducted various one day technical seminar/workshops, IE(I), Arunachal Pradesh	IE(I), Arunachal Pradesh	Honorary Secretary,
5.		d) Reviewed papers for 3rd IEEE International Conference and also for IEEE 4th ICECET 2024 and International Journal of Applied Power Engineering	3 rd IATMSI-2025, 4th ICECET 2024 and (IJAPE) (Scopus)	Reviewer

4.6.12 Achievements/Placement of students during 2024-25

S. No	Name of students	Roll No.	Organsisation	Posts	Package in Rs.
1	KHUMBONGMAYU M ABINASH	D/21/EE/005	High-Technext Engg.	Technical Site Engineer	₹ 300,000.00
2	AMARJIT LEIMAPOKPAM	D/21/EE/004	High-Technext Engg.	Technical Site Engineer	₹ 300,000.00
3	MRIGANKA SARMAH	D/21/EE/023	Orc Engineering Pvt Ltd	Junior Engineer/ Field Engineer	₹ 360,000.00
4	SHUBHAM KUMAR THAKUR	D/21/EE/039	Orc Engineering Pvt Ltd	Junior Engineer/ Field Engineer	₹ 360,000.00
5	NITISH PRASAD	D/21/EE/036	Orc Engineering Pvt Ltd	Junior Engineer/ Field Engineer	₹ 360,000.00
6	KHUMBONGMAYU M ABINASH	D/21/EE/005	Orc Engineering Pvt Ltd	Junior Engineer/ Field Engineer	₹ 360,000.00
7	RISHABH PANDEY	D/21/EE/017	Orc Engineering Pvt Ltd	Junior Engineer/ Field Engineer	₹ 360,000.00
8	ARUN BASUMATARY	D/22/EE/213	Orc Engineering Pvt Ltd	Junior Engineer/ Field Engineer	₹ 360,000.00
9	MRIGANKA SARMAH	D/21/EE/023	Reliance Industries Limited	GET	₹ 750,000.00
10	TANOY DEB	D/20/EE/027	Brahmaputra Cracker	GET	₹ 600,000.00



			and Polymer Ltd. (Bcpl)		
11	KALIVI SHOHE	D/21/EE/014	Indus Towers Ltd	GET	₹ 450,000.00
12	IBANSIEWDORSHIS HA L LYNGKHOI	D/21/EE/010	Indus Towers Ltd	GET	₹ 450,000.00
13	HAOMINLUN SINGSON	D/21/EE/006	Rdc Concrete (India) Pvt Ltd	GET	₹ 360,000.00
14	LOITONGBAM HIRABATI DEVI	D/22/EE/206	The Greens Power Equipment India Pvt Ltd	GET	₹ 420,000.00
15	TAMASHREE DAS	D/21/EE/025	K12 Techno Services Pvt. Ltd.	School Manager	₹ 600,000.00
16	SHIPRA ROY	D/21/EE/024	K12 Techno Services Pvt. Ltd.	Teacher	₹ 300,000.00
17	GAUTAM KUMAR SAIKIA	D/21/EE/003	K12 Techno Services Pvt. Ltd.	School Manager	₹ 600,000.00
18	HAOMINLUN SINGSON	D/21/EE/006	Polycab India Pvt. Ltd.	GET	₹ 450,000.00
19	PRAYUSH TRIPATHI	D/21/EE/028	Polycab India Pvt. Ltd.	GET	₹ 450,000.00
20	TAMASHREE DAS	D/21/EE/025	Omspace Rocket And Exploration	Sales Manager (Rocket)	₹ 450,000.00
21	GAUTAM KUMAR SAIKIA	D/21/EE/003	Vedanta	GET	₹ 945,000.00

4.6.13 Any other relevant information

Sl. No.	Title of the patent	Status	Year of award
1.	Indian Patent on “Design to Digital LCR Meter” By Radak Blange, Dr. Mukesh Uphadhyay, Prof. A.K Singh	Granted	26/06/2024
2	UK Patent on “Smart Pill Dispenser Using for Medication Adherence improvement” by Dr. Akhilesh Sharma.Mr. Shashi Kant, Vikas Pandey, Dr. Racha Srivastava	Granted	24 th June 2024

4.6.14 List of students who have completed the Summer Industrial Training/ Internship at various organisations during 2024-25:

Sl.No	Name of the Student	ROLL NO.	Organisation/Departments	No. of Days	Completed
1.	Kalivi Shohe	D/21/EE/014	Dept. of Power, Kohima, Nagaland	30	Completed
2.	Dhrubajyoti Sonowal	D/21/EE/002	Lhou Hydro Power Division- II, Arunachal Pradesh	30	Completed
3.	Naba Jyoti Bhuyan	D/22/EE/209	Lhou Hydro Power Division- II, Arunachal Pradesh	30	Completed
4.	Arun Basumatary	D/22/EE/213	Lhou Hydro Power Division- II, Arunachal Pradesh	30	Completed
5.	Tsering Lhamu	D/22/EE/205	Lhou Hydro Power Division- II, Arunachal Pradesh	30	Completed
6.	Arangsha R Marak	D/22/EE/201	Lhou Hydro Power Division- II, Arunachal Pradesh	30	Completed
7.	Babul Kumar Gupta	D/21/EE/018	Oil India Limited, Duliajan, Assam	28	Completed
8.	Deep Mahajan	D/21/EE/027	Oil India Limited, Duliajan, Assam	28	Completed
9.	Ahmed Tanisa	D/21/EE/038	ONGC, Sivsagar	31	Completed
10.	Gautam Kumar Saikia	D/21/EE/003	Assam Petro Chemicals, Namrup	30	Completed
11.	Abraham Nongthombam	D/21/EE/104	Powergrid Substation, Imphal, Manipur	30	Completed
12.	Khumbongmayum Abinash	D/21/EE/005	Powergrid Substation, Imphal, Manipur	30	Completed
13.	Amarjit Leimapokpam	D/21/EE/004	Powergrid Substation, Imphal, Manipur	30	Completed



14.	Loitongbam Hirabati Devi	D/22/EE/206	Powergrid Substation, Imphal, Manipur	30	Completed
15.	Haominlun Singson	D/21/EE/006	Meghalaya Energy Corporation Limited, Meghalaya	30	Completed
16.	Ibansiewdorshisha L. Lyngkhoi	D/21/EE/010	Meghalaya Energy Corporation Limited, Meghalaya	30	Completed
17.	Lusaka M Marak	D/21/EE/009	Meghalaya Energy Corporation Limited, Meghalaya	30	Completed
18.	Tamashree Das	D/21/EE/025	PGCIL, Biswanath Chariali, Assam	30	Completed
19.	Prayush Tripathi	D/21/EE/028	PGCIL, Biswanath Chariali, Assam	30	Completed
20.	Ravi Kumar	D/22/EE/212	PGCIL, Biswanath Chariali, Assam	30	Completed
21.	Rishabh Pandey	D/21/EE/017	PGCIL, Biswanath Chariali, Assam	30	Completed
22.	Priyamita Mushahary	D/21/EE/105	PGCIL, Biswanath Chariali, Assam	30	Completed
23.	Priyaman Dev	D/21/EE/001	PGCIL, Biswanath Chariali, Assam	30	Completed
24.	Shubham Kr. Thakur	D/21/EE/039	PGCIL, Biswanath Chariali, Assam	30	Completed
25.	Mriganka Sarmah	D/21/EE/023	PGCIL, Biswanath Chariali, Assam	30	Completed
26.	Priyanshu Shekhar	D/21/EE/106	PGCIL, Biswanath Chariali, Assam	30	Completed
27.	Mridupawan Kumar	D/22/EE/210	PGCIL, Biswanath Chariali, Assam	30	Completed
28.	Shipra Roy	D/21/EE/024	PGCIL, Biswanath Chariali, Assam	30	Completed
29.	Vedaj	D/21/EE/029	PGCIL, Biswanath Chariali, Assam	30	Completed
30.	Nitish Prasad	D/21/EE/036	PGCIL, Biswanath Chariali, Assam	30	Completed
31.	Vekhoyi Nyekha	D/21/EE/113	PGCIL, Dimapur, Nagaland	30	Completed
32.	Che U Akami	D/22/EE/202	PGCIL, Dimapur, Nagaland	30	Completed
33.	Tezenmo Woch	D/21/EE/012	PGCIL, Dimapur, Nagaland	30	Completed
34.	Chibenthung Jami	D/21/EE/013	PGCIL, Dimapur, Nagaland	30	Completed
35.	Rikzing Chopel Bhutia	D/21/EE/103	PGCIL, Nirjuli	30	Completed
36.	Sanjana Roy	D/21/EE/032	PGCIL, Nirjuli	30	Completed
37.	Biki Kaku	D/21/EE/110	PGCIL, Nirjuli	30	Completed
38.	Lonenu Tsukru	D/21/EE/015	PGCIL, Nirjuli	30	Completed
39.	Oyir Tato	D/21/EE/035	PGCIL, Nirjuli	30	Completed
40.	Tharchan W Zimik	D/21/EE/114	NEEPCO, Doimukh, Papumpare	45	Completed
41.	Vikupu Kiho	D/21/EE/108	NEEPCO, Doimukh, Papumpare	45	Completed
42.	Vinot Markia	D/21/EE/022	NEEPCO, Doimukh, Papumpare	45	Completed
43.	Vanlallawmawma	D/21/EE/011	NEEPCO, Doimukh, Papumpare	45	Completed
44.	Ngurang Tonia	D/20/EE/112	NEEPCO, Doimukh, Papumpare	45	Completed
45.	Hage nobin	D/21/EE/030	NEEPCO, Doimukh, Papumpare	45	Completed
46.	Taba Kanung	D/21/EE/031	NEEPCO, Doimukh, Papumpare	45	Completed
47.	Topin Ori	D/21/EE/033	NEEPCO, Doimukh, Papumpare	45	Completed
48.	Hano kojing	D/21/EE/034	NEEPCO, Doimukh, Papumpare	45	Completed
49.	Uddipan Bhattacharjee	D/21/EE/020	AgGBPS, NEEPCO Ltd., Agartala, Tripura	30	Completed
50.	Saswata Bhattacharjee	D/21/EE/021	AgGBPS, NEEPCO Ltd., Agartala, Tripura	30	Completed
51.	Nending Tagia	D/20/EE/108	SO & PSC Circle, Department of Power, Chimpu	28	Completed
52.	Anem Kungkho	D/22/EE/207	Department of Power, Naharlagunj Sub-Division – II	30	Completed
53.	Anindita Jamatia	D/22/EE/204	Department of Power, Naharlagunj Sub-Division – II	30	Completed
54.	Juri Boruah	D/21/EE/037	Department of Power, Naharlagunj Sub-Division – II	30	Completed
55.	Nada Devi	D/22/EE/208	Department of Power, Naharlagunj Sub-Division – II	30	Completed
56.	Mogal Taniya Afrin	D/20/EE/113	IIT Guwahati	40	Completed
57.	Riya Khatun	D/20/EE/107	NEEPCO Agartala	30	Completed



4.6.15 Board of Studies (BoS):

The meeting of the Board of Studies of the Electrical Engineering Department was held on 13.02.2025 in the conference Hall of the Department at 10. AM. The following BoS Members attended the meeting.

1. Prof. Radak Blange, HoD (EE)	: Chairman
2. Prof. Sarsing Gao	: Member
3. Prof. R.K. Mehta	: Member
4. Prof. S.K. Bhagat	: Member
5. Prof. A.K. Singh	: Member
6. Prof. Devender Singh, Professor, EE Dept, IIT BHU	: Member
6. Er. Abhishek Kumar Jha, Chief Manager, PGCIL, Nirjuli	: Member
7. Prof. T.V.P. Singh	: Convener
8. Dr M.D Singh	: Member
9. Dr A.K. Das	: Member
10. Dr Piyali Das	: Member
11. Dr Akhilesh Sharma	: Member
12 Prof. A.K. Parida	: Invitee

The BoS of the Department of Electrical Engineering approved the following.

1. B.Tech (EE) Curriculum in light of NEP2020: Approved
2. New Curriculum for 2+1(Certificate and Diploma) : Approved
3. Courses offered to AE Departments(Electrical Machines-EEPC607: Approved
4. Open electives:
 - (i) Introduction to Nano-bio-Technology (EEOE701) : Dropped
 - (ii) Renewable Energy and applications (EEO703) : Approved

4.6.16 Brief Report on Industrial Tour to Delhi, Rajasthan, Mumbai and Goa. (14th December, 2024 to 6th January, 2025)

TOUR OVERVIEW: The Industrial Study Tour for Pre-final B.Tech. was conducted by the Department of Electrical Engineering, NERIST, under the guidance of Dr Akhilesh Sharma, Assistant Professor, under the supervision of Prof. Radak Blange, HoD (EE), w.e.f., 14th December 2024 to 6th January 2025. The tour was aimed at having a structured, multi-city academic excursion designed to enhance the practical knowledge of students in the fields of power generation, transmission, and renewable energy systems. The tour team/students visited the following major industrial hubs across India, namely Delhi, Jaisalmer, Jaipur, Mumbai, and Goa, which include industrial visits at Pragati-III Combined Cycle Gas Turbine Plant, Suzlon Windmill Blade Manufacturing Facility in Jaisalmer, 220kV, GSS Substation at Mansarovar, a critical transmission node managed by RVPNL, etc.



4.7 DEPARTMENT OF MECHANICAL ENGINEERING

4.7.1 Brief Profile of the Department

The Department of Mechanical Engineering came into existence as one of the core branches of engineering and started with the inception of the institute in 1986. The Department offers courses in Certificate, Diploma, and Degree modules in Mechanical Engineering. M.Tech. and PhD programmes were started from 2006 onwards. The Department is run by a mix of experienced as well as young, motivated, well-qualified faculty members (19) and supporting staff (22) to generate human resources to cater for the fast-growing industrial and academic needs of the country. There are about 360 students, including 10 research scholars, 21 M.Tech. students are currently pursuing their studies at various levels. At present, the Department offers about 125 courses and nearly 25 student projects every year, all the modules combined. The Departmental vision and mission are as follows:

Vision

To create a niche in the field of Mechanical Engineering through education and research to develop a sound human resource by nurturing the young talents, especially from North Eastern States and from other states of India, matching the global standards and demand.

Mission

1. To create an environment for providing balanced education in Mechanical Engineering through teaching, learning and practising, rendering equal weightage in all.
2. To create a Centre of Excellence in research that will provide the students with the necessary impetus for future development and life-long learning.
3. To create technical manpower at different levels for the North Eastern States in particular and for the country in general.

4.7.2 Academic activities

Apart from B. Tech. programme, the Department runs two PG programmes (i) M.Tech in Computer Integrated Manufacturing (CIM) and (ii) M.Tech. in Thermal and Fluid Engineering, as well as a PhD programme. Besides conventional teaching methodology, the Department provides facility of audio-visual sessions on selected areas conducted in the Departmental seminar hall through e-learning CDs. Several proposals have been processed to streamline the course contents or credit distribution of a course. New and emerging elective courses are offered to the students. Vocational Training is included as a part of the curriculum for certificate and degree modules.

Mechanical Association of NERIST (MAN), jointly officiated by faculty, staff and students of the Department, provides a platform to resolve academic issues solely related to the Department. MAN also organises lecture series, mock interviews, technical competitions, etc., for the students of NERIST in general and students of the mechanical engineering Department in particular.

Students of the Department take an active role in organising and participating in various academic, cultural and sports activities at the Institute level, such as RACAF, SHRISTI, etc. Students are also encouraged to participate in technical events organised by various other Institutions of India.

4.7.3 Laboratories and Lab development

The Department has established a **3D Dental SPOKE Centre** under the sponsorship of the **PMDeVINE project**, facilitating research and advancements in biomedical engineering and additive manufacturing. In addition, new software was installed in the computer labs, and maintenance activities were carried out in various laboratories to ensure the proper upkeep of lab and workshop equipment. The details of new equipment /software procured are shown in the table below. The electrification of the Central workshop under the ME Department is in almost the final stage.

Laboratory Development:

SN	Name of the Lab	New Equipments/ Software procured
1.	Computer Lab	Ansys, Solid works and PTC-Creo

**4.7.4 Project completed by UG/PG/PhD Students**

(a) PhD awarded / theses submitted:

SN	Name of the Scholar	Supervisor (s)	Status	Title
1.	Mr. M.Sajid Ahemd PhD/FT16/ME/04	Prof. P. Lingfa and Prof. M. Chandrasekaran	Completed	Production, physiochemical properties, performance and emission analysis of blends of bio-diesel produced from toko patta
2.	Jyotisman Borah PhD/FT/20/ME/01	Prof. M. Chandrasekaran	Synopsis completed on 06/02/2025	Experimental Investigation, Modelling and Optimization of Process Parameters of 3D Print Components using high performance polymers
3.	Mr. R. K. Das	Prof. S. S. Gautam	Submitted (2024)	Dynamic analysis of sandwich beams with composite skins and different cores
4.	Benjamin Das	Dr. Yadaiah N	Awarded 15-05-2024	Experimental investigation and numerical modeling of macro and micro-plasma arc welding process

(b) M. Tech.

SN	Name of Student	Supervisor(s)	Thesis Title
M. Tech (CIM):			
1	Rishanbor Syiemlieh (MT/22/CIM/005)	Dr. S.K. Tamang	Micro-texturing on Titanium alloy (Ti6Al4V) surface using Micro- Machining for inducing Hydrophobicity.
2	Priyam Kashyap Sarmah (MT/22/CIM/003)	Dr. K. K. Mandal	Investigation of AZ31D Magnesium alloy reinforced with Inconel 718 powder developed by Friction stir processing
3	Khurajam Bishwajeet (MT/22/CIM/004)	Dr. Sandeep Singh	Identification of faults in rolling element bearings using fast Fourier transform
4	Mr.Successful Khlem MT/22/CIM/001	Prof. M. Chandrasekaran	FMS Components selection using m-polar multi-criteria optimization approach
5	Miss Barbi Mech	Prof. S. Mahto	Development of NERIST memento through Additive Manufacturing
M. Tech. (TFE)			
1	Tingtong Kalai (MT/22/TFE/005)	Prof. Asis Giri	Conjugate convective heat transfer analysis for cooling of rectangular obstacle
2	Doni Nyicyor (MT/22/TFE/003)	Dr. Nabam Teyi & Dr. S. K. Tamang	Optimizing Ethanol-Diesel blends with Diethyl Ether additives and Oleic acid surfactant for enhanced performance and emission control in CI engines.



3	Amos Chumbu Ronrang (MT/21/TFE/001)	Dr. Maryom Dabi	Analysis of fabricated conventional solar steel under the climatic condition of Nirjuli Arunachal Pradesh
4	Himashri Lahary (MT/22/TFE/004)	Dr. Maryom Dabi	Production and characterization of Methyl Ester derived from Pine Bark and Neem seed

(c) B. Tech.:

Group	Roll No.	Name of Student	Guide	Project Title
01	D/20/ME/001 D/20/ME/002 D/20/ME/022 D/20/ME/114 D/21/ME/204	Nilesh Dwivedi Vikash Kumar Roy Prithwidip Ray Lalnunhlimi Sailo Lastbornson Syngkon	KKM	Fabrication of Magnetic Energy Harvesting Suspension System
02	D/20/ME/003 D/20/ME/007 D/20/ME/010 D/20/ME/028 D/20/ME/115	Joydip Roy Narayan Barman Abhinab Sharma K. B. Sharma Abhimanyu Chetry	SSI	Numerical Solution to Some Differential Equations and Animation of Response
03	D/20/ME/004 D/20/ME/020 D/20/ME/102 D/20/ME/105 D/21/ME/211	Arpana Sarmah Deepchayan Roy Ch. Federick Girod Plabipriya Bordoloi Binud Payeng	SSG	Building a Laser Discharge Tube: Design and Analysis
04	D/20/ME/005 D/20/ME/009 D/20/ME/030 D/20/ME/113	Monojeet Saha Rajdeep Borthakur Pyndapborlin Mar. Miching Tony	AG	Numerical study on mixed convection heat transfer with condensation
05	D/20/ME/006 D/20/ME/031 D/20/ME/037	Alok Raj Aditya Chauhan Om Prakash Singh	SKT	Tribological and CFD analysis of Al-15Mg-2Si-4.5Si fabricated disc brake
06	D/20/ME/008 D/20/ME/018 D/21/ME/203 D/21/ME/206 D/21/ME/207	Supratim Roy Meno Rupreo Arnab Nath Mani Kr Lamichaney Philip Tep	MD	Fabrication of Stepped Solar Desalination System: Enhancing Efficiency through Parabolic Trough Integration with Innovative Absorbency Enhancement
07	D/20/ME/011 D/20/ME/015 D/20/ME/109 D/21/ME/209 D/21/ME/212	Mondeep Gohain Anand Nath Sah Vighnesh Kumar Tirthraj Pandit Geetashree Hazarika	MC	A heuristic approach to solve assembly line balancing problems
08	D/20/ME/012 D/20/ME/014 D/20/ME/033 D/20/ME/101 D/20/ME/106	Himujjwal Bhatta Ngayosing A Shimray Divya Yadav Debjyoti Singha Longjam Pkr Singh	NY	Wire arc additive manufacturing process: State-of-art-review and heat transfer analysis
09	D/20/ME/013 D/21/ME/205 D/19/ME/103 D/19/ME/104	Pawan Kr Dwivedi Devraj Sharma Debanjan Sarma Saptarshi Sharma	SKT	Investigation on Mechanical behaviour of bamboo composite
10	D/20/ME/016 D/20/ME/017 D/20/ME/109 D/20/ME/026 D/20/ME/103	Biplob chakma Vilanuo liesietsu Irene kemp Runiko Sagolsem Th khopei	SMH	Theoretical and Experimental analysis of vertical axis wind turbine
11	D/20/ME/021 D/20/ME/023 D/20/ME/034	Joydeep Paul Tasso Dogin Shuvam Gayan	NBT	Innovating an Improved ERI Cocoon Cutting and Separating Machine for Enhanced Productivity



	D/20/ME/036 D/21/ME/202	Millo Novin Biki Prasad Hazam		
12	D/20/ME/024 D/20/ME/029 D/20/ME/032 D/20/ME/104 D/21/ME/208	Gaurav Kumar Arnaki Shanbok War Sachin Prasad Sarah Swu Sanoj Kumar Giri	AG	Fabrication of Thermal Comfort in Building
13	D/20/ME/025 D/20/ME/035 D/20/ME/110 D/20/ME/112 D/21/ME/213	Subrata Biswas Nilay Bhatta Adarsh Upadhyay Sharik Tripura Priyankush Buragohain	MD	Production of liquid fuels from waste plastic (PET) bottles by using Pyrolysis process
14	D/20/ME/038 D/20/ME/107 D/20/ME/108 D/20/ME/117 D/21/ME/210	Shaan Wangpan M. Harison Singh Arindam Borah Palmei Poudi Liza Hazarika	MD	Development and Experimental Investigation on the overall performance of a Solar Water Heating System

4.7.5 Short-term courses/ seminars/ workshops/ conferences organised at NERIST.

Name of courses/ seminars/ workshops/ conferences	Sponsored By	Date	Coordinator
Workshop on 3D Printing Design for NER Doctors	PMDeVINE	15.06.2024 to 29.06.2024	Dr. Santosh Kr. Tamang

4.7.6 Short-term courses/seminars/ workshops/conferences attended by the faculty

Name of Faculty	Program Name	From	To	Venue	Organized by
Prof. S. Samanta	FDP on Inculcating Universal Human Values in Technical Education	7/02/2025	9/2/2025	NERIST	AICTE
	NEP 2020 Orientation & Sensitization Programme	27/05/2024	5/06/2024	DDU Gorkhpur University, Gorkhpur	UGC-Malaviya Mission Teacher Training Centre, DDU Gorkhpur University.
Prof. S. S. Gautam	CAD/CAM	02.9.2024	06.9.2024	NITTTR, Kolkata	Dept. of Mech. Engg., NITTTR
Prof. S. Mahto	“Business Start-ups and IPRs (ICT-90)”, ,	20.01.2025	24.01.2025	NITTTR, Chandigarh and IIC, NERIST, Itanagar	NITTTR, Chandigarh and IIC, NERIST, Itanagar
	Structural and Machinery Diagnostics.	10.02.2025	14.02.2025	IIT Bombay, Mumbai,	IIT Bombay, Mumbai,
Dr. M. Dabi	NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC)	03.06.24	12.06.24	Online	UGC- Malaviya Mission Teacher Training Centre, University of Allahabad
Dr. K.K. Mandal	CAD/CAM	02/09/2024	06/09/2024	NITTTR Kolkata, W.B.,	NITTTR Kolkata, W.B
	Inculcating Universal Human Values in Technical Education	07/02/2025	09/02/2025	NERIST	NERIST (AICTE)
Dr. Nabam Teyi	2 week "Vth NEP 2020 Orientation & Teacher Training Programme (MM-	03.06.24	12.06.24	Malaviya Mission Teacher Training University,	Malaviya Mission Teacher Training University



	TTP) of University Grants Commission"			University of Allahabad.	
	One week Unit Based Programme on "Nurturing Future Leadership Programme"	24.06.24	28.06.24	Online	Indian Institute of Management, Mumbai
	3-day Face-to-Face FDP on "Inculcating Universal Human Values in Technical Education"	07.02.25	09.02.25	NERIST	AICTE
Dr. S. K. Tamang	6th NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC)	27.05.24	05.06.24	Online	UGC-Malaviya Mission Teacher Training Centre, D D U Gorakhpur University, Gorakhpur
Md. S. Mujaheed Khan	GIAN Course on Combustion Theory and Applications	25.11.24	06.12.24	Online	Center for Educational Technology & Department of Mechanical Engineering Indian Institute of Technology Guwahati
	Online FDP on High-Performance Computing (HPC): Foundations, Parallel Programming, and GPU Acceleration	27.01.25	01.02.25	Online	Lovely Professional University
	International Conference on Advances in Aerospace and Energy Systems (IAES-2024)	04.04.24	06.04.24	Online	Liquid Propulsion Systems Centre (LPSC), ISRO, Valiamala
	2 nd International Conference on Innovations In Thermo-Fluid Engineering And Sciences (ICITFES-2025)	07.02.2025	09.02.2025	Department of Mechanical Engineering, National Institute of Technology Rourkela	Department of Mechanical Engineering, National Institute of Technology Rourkela
	6th NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC)	27.05.24	05.06.24	Online	UGC-Malaviya Mission Teacher Training Centre, D D U Gorakhpur University, Gorakhpur

4.7.7 New Degrees/Professional Memberships obtained by the faculty

Dr. K. K. Mandal	Fellow member of The Institution of Engineers (India): F-1295949
Dr. M. Dabi	Fellow member of The Institution of Engineers (India): F1295930

**4.7.8 Achievements/awards/ recognition/Patent earned by the faculty**

Name of Faculty	Achievements/awards/ recognition
Prof. M. Chandrasekaran	<ul style="list-style-type: none"> ❖ Selected as Member of Board of Studies for School of Mechanical Engineering under KIIT (Deemed to be university), Odissa ❖ Elected as a Honorary Chairman, IE(I), Arunachal Pradesh State Centre.. ❖ Member of the research and development committee (RDC) of Institution of Engineers (I), Kolkata.
Dr. Santosh Kr. Tamang	<ul style="list-style-type: none"> ❖ [DESIGN PATENT] Anbarul Haque, Priyam Kashyap Sarmah, Suraj Tiwari and Santosh Kumar Tamang, “ Solar Powered Agricultural Crop Seeder and Harvesting Equipment”, 408611-001, 2024 <i>Granted</i>. ❖ [DESIGN PATENT] A. Yangthan, Piyas Biswas, Faraz Khan, Snigdha Das, Priyam Sarmah and Santosh Kumar Tamang, “AI-Powered Leaf and Garbage Collection Device” Solar water distillation system, 415966-001, 2024 - <i>Granted</i>
Dr. N. Yadaiah	<ul style="list-style-type: none"> ❖ Sohini Chowdhury, N. Yadaiah, Chander Prakash, Seeram Ramakrishna, Saurav Dixit, Lovi Raj Gulta, Dharam Buddhi: Laser Powder Bed Fusion: A State-of-the-Art Review of the Technology, Materials, Properties & Defects, and Numerical Modelling, Journal of Materials Research and Technology (ISSN: 2238-7854), Vol. 20, pp. 2109-2172, 2022. https://doi.org/10.1016/j.jmrt.2022.07.121 (One of the top cited articles (Rank 1) of Journal of Materials Research and Technology since January 2022 dated February 2025) - Source: Scopus ❖ Sohini Chowdhury, N. Yadaiah, Chander Prakash, Seeram Ramakrishna, Saurav Dixit, Lovi Raj Gulta, Dharam Buddhi: Laser Powder Bed Fusion: A State-of-the-Art Review of the Technology, Materials, Properties & Defects, and Numerical Modelling, Journal of Materials Research and Technology (ISSN: 2238-7854), Vol. 20, pp. 2109-2172, 2022. https://doi.org/10.1016/j.jmrt.2022.07.121 (The most downloaded article in the last 90 days (Rank 2) dated May 2024)

4.7.9 Projects sanctioned by outside agencies to the faculty of the Department

- Development of 3D Dental Lab for NER” funded by MDoNER, Govt. of India, February, 2024. Amount Rs. 94,40,000. PI: Dr. Santosh Kr. Tamang
- Development of Radar Absorbent Materials (RAMs) using Carbon-Based and Bamboo-Charcoal Composite sponsored by NEC, Govt. of India. Amount: ₹ 19,85,000.00 (PI: Dr. Santosh Kr. Tamang)

4.7.10 Publications.**(a) Journal papers:**

SN	Journal Paper Details
1	Tamang S.K, Chauhan A, Banerjee D, Teyi N and Samanta S, “Developing precision in WEDM machining of Mg-SiC nanocomposites using machine learning algorithms”, Engineering Research Express, Vol:6, issue:4, 2024.
2	Dash D, Devarasiddappa D, Dash S K, Rai R N, and Samanta S, “Experimental Investigation and Machining Analysis of Mg/TiC Composite during EDM”, Composites Theory and Practice, Volume:2024, issue 1, pp 9-16, 2024.
3	Das S, Giri A and Samanta S, “Heat transfer enhancement in a thermosyphon using TiO ₂ nanofluid through natural convection”, Energy Sources, Part A: Recovery, Utilization and Environmental Effects, Volume 46, Issue 1, Pages 4982 – 4999, 2024.
4	B. Choudhury, V. Singh, L. Selvarajan, S. Goel, M. Chandrasekaran (2024), Synergic investigation of microstructure, precipitation, and micro-segregation on Inconel 825 weldments: A comparative study between GTAW and EBW, Materials Chemistry and Physics (2024), doi: https://doi.org/10.1016/j.matchemphys.2024.129249
5	Borah, J., & Chandrasekaran, M. (2024). Development of ANN model for predicting mechanical properties of 3d printed peek polymer using FDM and optimization of process parameters for better mechanical properties. Physica Scripta (SCIE). https://doi.org/10.1088/1402-4896/ad7f0f



6	Borah, J., & Chandrasekaran, M. (2024). Predictive modeling and optimization of Rockwell hardness of additively manufactured peek using RSM, ANFIS and RNN integrated with PSO. <i>Physica Scripta (SCIE)</i> . https://doi.org/10.1088/1402-4896/ad6514
7	B. Choudhury, V. Singh, L. Selvarajan, S. Goel, M. Chandrasekaran (2024), Synergic investigation of microstructure, precipitation, and micro-segregation on Inconel 825 weldments: A comparative study between GTAW and EBW, <i>Materials Chemistry and Physics</i> (2024), doi: https://doi.org/10.1016/j.matchemphys.2024.129249
8	Bishub Choudhury, Vivek Singh, L. Selvarajan, Saurav Goel, and M. Chandrasekaran1 (2024) Microstructure, Precipitation and Micro-segregation in Inconel 825 Weldments: A Comparative study between GTAW and EBW, <i>Materials Chemistry and Physics</i>
9	S. Tandon, R. Kacker, S. K. Singh, S. S. Gautam, S. K. Tamang, “Multi-objective optimization of mechanical properties of additively manufactured 3D printed tetra hexagon pattern specimens using machine learning algorithms,” <i>Progress in Additive Manufacturing</i> (Springer, Scopus, 4.4 IF), 2024. (DOI: 10.1007/s40964-024-00835-2) (ISSN: 2363 – 9520)
10	S. Tandon, S. K. Singh, R. Kacker, S. S. Gautam, S. K. Tamang, “Multi response optimization of 3D printed parts with triangular patterns using non-linear machine learning regressor technique,” <i>Journal of Materials Engineering and Performance</i> (Springer, SCIE, 2.2 IF), 2024. (DOI: 10.1007/s11665-024-09869-7) (ISSN: 1059 – 9495)
11	S. K. Singh, R. Kacker, S. S. Gautam, S. K. Tamang, “Development of ANN prediction model for estimation of heat transfer utilizing rectangular toothed v-cut twisted tape,” <i>Journal of Process Mechanical Engineering (Part E), IMechE</i> (SAGE, SCI, 2.4 IF), 2024. (DOI: 10.1177/09544089241272853) (ISSN: 2041 – 3009)
12	S. K. Singh, R. Kacker, S. S. Gautam, “Experimental and statistical analysis of heat transfer and friction factor for rectangular toothed v-cut twisted tapes using TiO ₂ /H ₂ O nanofluid,” <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> (Springer, ESCI, 0.9 IF), 2024. (DOI: 10.1007/s12572-024-00376-5) (ISSN: 0975 – 5616)
13	B. A. Gameda, D. K. Sinha, G. A. Mengesha, S. S. Gautam, “Optimization of porosity behavior of hybrid reinforced titanium metal matrix composite through RSM, ANN and GA for multi-objective parameters,” <i>Journal of Engineering and Applied Science</i> (Springer, Scopus), 2024, Vol. 71, 116. (DOI: 10.1186/s44147-024-00436-4) (ISSN: 2536 – 9512)
14	B. A. Gameda, D. K. Sinha, G. A. Mengesha, S. S. Gautam, “Multi-objective parametric optimization process of hybrid reinforced titanium metal matrix composite through Taguchi grey relational analysis,” <i>Journal of Engineering and Applied Science</i> (Springer, Scopus), 2024, Vol. Vol. 71, 146. (DOI: 10.1186/s44147-024-00427-5) (ISSN: 2536 – 9512)
15	S. K. Singh, R. Kacker, S. S. Gautam, S. K. Tamang, A. Arora “Application of ANN methodology to optimize the criteria of performance evaluation with multiple v-cut twisted tape inserts,” <i>Numerical Heat Transfer, Part B: Fundamentals</i> (Taylor & Francis, SCI, 1.0 IF), 2024. (DOI: 10.1080/10407790.2024.2333018) (ISSN: 1521 – 0626)
16	S. K. Singh, R. Kacker, S. S. Gautam, S. Tandon, “Correlations on heat transfer rate and friction factor using radial and axial v-cut geometry on a twisted tape in a double pipe heat exchanger,” <i>Journal of Process Mechanical Engineering (Part E), IMechE</i> (SAGE, SCI, 2.4 IF), 2024. (DOI: 10.1177/09544089241252047) (ISSN: 2041 – 3009)
17	Das, R K, Nayak, B, Ganeshan, P, Gautam, S S, and Mandal, K K, Dynamic Mechanical Behavior of a Nano Sized Alumina Fiber Reinforced Epoxy Hybrid Composites, <i>Materials Today: Proceedings</i> , Elsevier, 76(3), 2023, pp.524-527.
18	Raj Kishor Das, Biswajit Nayak, Satyam Shivam Gautam, Narendra Kumar Rana, Fabrication and characterisation of GFRP composite as skin material of sandwich structure, <i>Materials Today: Proceedings</i> , Volume 76, Part 3, 2023, Pages 569-572. ISSN 2214-7853. https://doi.org/10.1016/j.matpr.2022.11.165
19	Tamang, S. K., Teyi, N., Mishra, M., Mythili, T., Thanigaivelan, R. Tool Condition Monitoring Using Artificial Intelligence in Machining: An Application Directed towards Industry 4.0. <i>Recent Patents on Mechanical Engineering</i> , published by Bentham Science Publishers 2024., doi: https://doi.org/10.2174/0122127976357266241125105738 (Scopus, C.S.: 0.8.)
20	Teyi, N., & Singh, S. Transverse crack and mass unbalance interaction in a spinning rotor: a theoretical study. <i>Journal of Theoretical and Applied Mechanics (Bulgaria)</i> , 54 (2024) 292-307, published by Walter de Gruyter (ESCI, Web of Science, Scopus) [2023]
21	D Sarkar, N Teyi, P Borah, P., Chetia., Optimization of wear and friction behaviour of fish scale powder filled natural fibre/glass fibre hybrid epoxy composite in dry sliding condition., <i>Engineering Research Express</i> , IOP Publishing 2024., doi: https://doi.org/10.1088/2631-8695/ad7cc6 (ESCI, Web of Science, I.F.: 1.5, Scopus C.S.: 2.2)
22	Kumar, M., Tamang, S. K., Owhal, A., Roy, T., & Dabi, M. (2024). <i>Nano droplet behaviour on vibrating surfaces: atomistic simulations for bio-NEMS/MEMS applications</i> . <i>Molecular Simulation</i> , pp. 1-9.



23	Yuvaraj, T., Tamang, S. K., Arivazhagan, R., & Sri, M. N. S. (2024). <i>Enhancing EDM performance on TiN-Si3N4 using a hybrid computation intelligence algorithm (Grey-ANFIS)</i> , Journal of the Australian Ceramic Society, 60(2), pp. 363-376.
24	Kumar, M., Tamang, S. K., Thanigaivelan, R., & Dabi, M. (2024). <i>Study of Wettability Behavior of Water Nanodroplets on Platinum Surface by Molecular Dynamics Simulation</i> . Surface Engineering and Applied Electrochemistry, 60(1), pp. 50-57.
25	Singh, S. K., Kacker, R., Gautam, S. S., & Tamang, S. K. (2023), <i>Multi-objective optimization of thermo-hydraulic behavior of heat exchanger with v-cut twisted tape in axial and radial direction using NSGA-II</i> , Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 45(4), pp. 13057-13076.
26	Singh, S. K., Kacker, R., Gautam, S. S., & Tamang, S. K. (2024), <i>Development of ANN prediction model for estimation of heat transfer utilizing rectangular-toothed v-cut twisted tape</i> , Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 09544089241272853.
27	Khan Majaheed M.S., <i>Effect of Al₂O₃ nanoparticles in controlling emissions of diesel engine powered with Nahar vegetable oil-diesel blend</i> , Afr. J. Biomed. Res. 27, Jan. 2024, pp 3333-3337.
28	Prasad PK, Singh S, Prasad R, Prasad SK, Pati SS (2024) Optimization of CED dry film thickness using artificial neural network for automobile industries, Proceedings of the Institution of Mechanical Engineers, Part D:0(0). doi:10.1177/09544070241294131
29	Puspendu Chandra Chandra, Arpan Kumar Mondal, Yadaiah Nirsanametla, Ajay Kumar and Sohini Chowdhury: Influence of Tool Traverse Speed on Mechanical Properties and Fracture Morphology of Friction Stir Welded Pure Copper Butt Joints, Journal of Adhesion Science and Technology, 2024.DOI: https://doi.org/10.1080/01694243.2024.2411315
30	Anil Kumar Deepati, Sohini Chowdhury, Nabam Teyi, Yadaiah Nirsanametla, Chander Prakash, Kuldeep Kumar Saxena and Sandeep Kumar: Influence of surface-active elements on GTA welds with respect to metallographic analysis and temperature distribution, International Journal on Interactive Design and Manufacturing (IJIDeM) (Electronic ISSN: 1955-2505 and Print ISSN: 1955-2513), Vol. 18, 1161–1170, (2024) DOI: https://doi.org/10.1007/s12008-022-01108-4
31	Sapam Ningthemba Singh, Amdadul Mahmum, Ashish B. Deoghare, Yadaiah Nirsanametla and Sohini Chowdhury: Surface micro-cracks and microstructures of Ti6Al4V alloy fabricated by high-layer thickness multi-laser directed energy deposition additive manufacturing process, Scientia Iranica, 2024. 10.24200/sci.2024.64669.9069
32	P. C. Chandra, A. K. Mondal, N. Yadaiah, S. Chowdhury and B. Halder: Impact of tool plunge depth, tool tilt angle, and tool offset on microstructure, mechanical properties, and fracture morphology of friction stir welded pure copper butt joints, Journal of Materials Engineering and Performance, 2025.DOI: https://doi.org/10.1007/s11665-025-10840-3
33	P. C. Chandra, A. K. Mondal, N. Yadaiah, S. Chowdhury and B. Halder: Grain growth and fracture analysis in friction stir welded pure copper joints under various welding parameters, Scientific Reports, 2025.
34	P. C. Chandra, A. K. Mondal, N. Yadaiah and B. Halder: Influence of tool plunge depth on microstructural evolution, mechanical properties and fractural morphology of friction stir welded pure copper butt joints, <i>Sadhana</i> , 2025.

Conferences

1	D. Devarasiddappa, M. Chandrasekaran. “8020-optimization methodology (8020-OM): A new optimization methodology based on Pareto principle” submitted to 4 th International Conference on Modeling, Simulation and Optimization (CoMSO2024), November 21-23, 2024, NIT Silchar.
2	Chetia, P., Sodial, A.M., and Mahto, S., “Determination of dynamic characteristics of rotating kink cantilever tapered shape flexible robotic link”, Proceeding of 5 th Intl. Conf. on Recent Advances in Mechanical Engineering Research and Development (ICRAMERD-2024), 12-14 th Dec’24, ITER, SoA University, Bhubneswar.
3	Chetia, P., Sodial, A.M., and Mahto, S., “Experimental dynamic analysis of a rotating dynamic analysis of rotating flexible kink robotic link”, Proceeding of 4 th Intl. Conf. on Engineering and Agro-Industrial Technology (ICEAT-2025), March 12-15 th March’25, University of Philippines, Los Banos, Manila.
4	Chandrasekaran M., Teyi N., Modeling of automated guided vehicles in material transport within flexible manufacturing systems using fuzzy logic., Advances in Science and Technology 157, 77-83 (2024). Book Series published by Trans Tech Publications Ltd, Switzerland, https://doi.org/10.4028/p-RKg0KL (Scopus)
5	Anand Besekar, Priyam Kashyap, Successful Khlem, Shivraj Gahir, Neelam Karthik, Pathlavath Vittal, Srikar Potnuru, Soumya Gangopadhyay, Santosh Kumar Tamang, R. Jose Immanuel (2024) Recycling and Development of Advanced Structural Material Inconel 718 using Ball Milling Machine for Aerospace and Defense Applications. International Conference on Advances in Aerospace and Energy Systems (IAES- 2024), 4th to 6th



	April, 2024 at LPSC, Valiamala Thiruvananthapuram Kerala, India.8
6	Khan Mujaheed M.S., Ansari I., Sahoo N., <i>Analysis of Diesel Engine Characteristics operated with Al₂O₃ doped Nahar Vegetable oil-diesel blend</i> , International Conference on Advances in Aerospace and Energy Systems (IAES-2024), 4-6 th April 2024, Liquid Propulsion Systems Centre (LPSC), ISRO, Valiamala.
7	Khan Mujaheed M.S., Sahoo N., <i>Performance and emission studies of Diesel engine fuelled with Nahar vegetable oil-diesel blend under varying compression ratio</i> , 2 nd International Conference on Innovations In Thermo-Fluid Engineering And Sciences [ICITFES-2025], 7-9 th February 2025, Department of Mechanical Engineering, National Institute of Technology Rourkela.

Book Chapters

1. Pathak, K.K., Giri, A., Barkakati, R., Saikia, M.A., Mahanta, S., ‘Thermal Analysis of a steam turbine unit of Namrup thermal power plant, Assam, India,’ Challenges and opportunities in Industrial and mechanical Engineering: A progressive Research Outlook, 1st Edition, 2024, CRC Press(Taylor & Francis), pages: 11.
2. B. Choudhury, V. Singh, L. Selvarajan, S. Goel, M. Chandrasekaran (2024), Synergic investigation of microstructure, precipitation, and micro-segregation on Inconel 825 weldments: A comparative study between GTAW and EBW, *Materials Chemistry and Physics* (2024), doi: <https://doi.org/10.1016/j.matchemphys.2024.129249>
3. Bishub Choudhury, Vivek Singh, L. Selvarajan, Saurav Goel, and M. Chandrasekaran1 (2024) Microstructure, Precipitation and Micro-segregation in Inconel 825 Weldments: A Comparative study between GTAW and EBW, *Materials Chemistry and Physics*
4. Mandal, K. K., Prediction of kerf qualities for 7075 Aluminium alloy on laser micro-machining using artificial neural network, January 2025, *Advances in Materials, Manufacturing and Design*, Springer Nature, Singapore Pte. Ltd., pp. 443 – 456.
5. Monoj Kanti Chakraborty, Arun Jyoti Kalita, Deepty Pandey, Nirsanametla Yadaiah, Md. S. Mujaheed Khan, Nabam Teyi: Multi-Objective Optimisation of Fusion Welding Parameters Using Non-Dominated Sorting Genetic Algorithm II, *New Materials, In Processing and Manufacturability: Fabrication and Processing of Advanced Materials*, 2024. <https://doi.org/10.1002/9781394212736.ch20>
6. [Chakraborty](#), M. K., [Kalita](#), A. J., [Pandey](#), D., [Nirsanametla](#), Y., [Khan](#) Mujaheed, M. S., [Teyi](#), N., Multi-Objective Optimisation of Fusion Welding Parameters Using Non-Dominated Sorting Genetic Algorithm II, **New Materials, Processing and Manufacturability: Fabrication and Processing of Advanced Materials**, First Edition, 2024, Chapter 20, pp. 369-385, ISBN: 978-1-394-21254-5.
7. Chakraborty, M. K., Kalita, A. J., Pandey, D., Nirsanametla, Y., Khan Mujaheed, M. S., Teyi, N., Multi-Objective Optimisation of Fusion Welding Parameters Using Non-Dominated Sorting Genetic Algorithm II, *New Materials, Processing and Manufacturability: Fabrication and Processing of Advanced Materials*, First Edition, 2024, Chapter 20, pp. 369-385, ISBN: 978-1-394-21254-5.

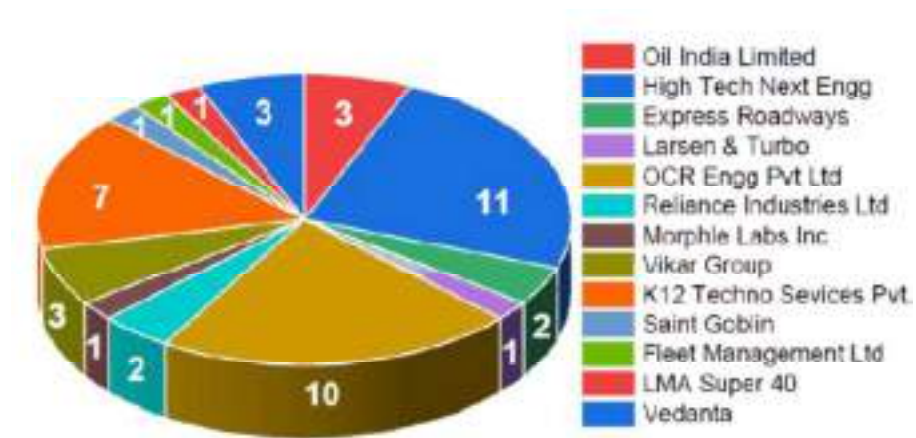
4.7.11 Interaction of faculty/ Department with outside agencies:

- Dr. Santosh Kr. Tamang acted as Session chair in SEGT 2023, jointly organised by Universiti Malaya and Vietnam National University, December 2024.
- Dr N. Yadaiah delivered an invited lecture on “Mathematical Heat Source Models for Simulation of Fusion Welding Processes” in WELD 2023 Golden Jubilee Program, organised by The Indian Institute of Welding (IIW India), Kolkata Branch, India, 2023.
- Dr. N. Teyi acted as a technical Committee Member of the 8th International Conference on Smart Materials Applications (ICSMMA 2025) held in Yonsei University, Seoul, South Korea, co-organised by South Asia Institute of Science and Engineering (SAISE), Sichuan University, China, Yonsei University, South Korea and Tokyo University of Science, Japan. <http://www.icsma.org/committees.html> (January 2025)
- Dr. N. Teyi acted as a technical Committee Member of the 5th International Conference on Engineering Materials (ICEM 2024), held at Bali, Indonesia, organised by the Chemistry and Materials Society, Hong Kong <https://www.icem.org/com.html> (December 2024)
- Dr. N. Teyi chaired a Technical Session as the Session Chairman in the 5th International Conference on Engineering Materials (ICEM 2024), held during December 11-14, 2024, at Bali, Indonesia, organised by Chemistry and Materials Society, Hong Kong (December 2024)

4.7.12 Consultancy projects undertaken:

Sl. No.	Particular	Agency	Amount
1	Testing of construction materials	M/S Kenge Construction Co.	3,15,945/-

4.7.13 Achievements of students:



Campus placement for the batch 2024-25 (Up to 31st March 2025)

No. of students qualified GATE in 2024: 03

4.7.14 Any other relevant information:

- ❖ Prof. Sandeep Singh and Dr. Santosh Kumar Tamang served as reviewers for a DST-sponsored project proposal submitted under the INSPIRE Scheme.
- ❖ Additionally, Dr. Santosh Kumar Tamang was nominated and served as a Jury Member for the 3DPCOE Hackathon held at the Assam Administrative Staff College, Guwahati, from 27th to 28th August 2024.
- ❖ The Department has been granted a three-year extension of NBA accreditation for the period June 2024 to July 2027.



4.8 DEPARTMENT OF CHEMISTRY

4.8.1 A Brief Profile of the Department

The Department offers courses for Under-Graduate levels (Base/ Degree module) of Engineering & Technology streams. The Department also offers courses for the Degree module of the Forestry stream. The Department has started the Sc programme since the academic session 2009-10. Initially, the Department was offering only the Organic Chemistry specialisation in M Sc. We started offering Inorganic Chemistry specialisation also since the academic session 2015-16. Consequently, the 2015-16 Batch of M Sc students were also able to take the Inorganic Chemistry specialisation from July to December 2016. The admission process for the 15th batch in M. Sc (Chemistry) was completed in July 2023 through the Written Test conducted by NEPGET. Admission Test for PhD programme was also conducted in July 2023. 15 M.Sc. and 04 PhD students were admitted in 2023. There are a **total of 16 (sixteen) registered PhD students** in the Department.

Contributions of the faculty members in **the Institute administration** are given below:

1. Prof. P. K. Tripathy has taken charge of the Head, Department of Chemistry, from 23.08.2022, from Prof. A. K. Gupta. He is a member of the AC of the Institute. He is a member of BoS and Chairman of the DPGC of the Chemistry Department.
2. Prof N Deb is a member of the DPGC of the Chemistry Department. He is a member of the AC of the Institute. He is the convenor of the BoS of the Chemistry Department.
3. Prof A. K. Gupta is a member of the BoS of the Chemistry Department. He is a member of the DPGC of the Chemistry Department. He is a member of the AC of the Institute.
4. Dr N Ghanashyam Singh has been functioning as the Chairman of Gymkhana, NERIST, since July 19, 2023.
5. Dr J. Bhuyan has proceeded on leave and joined as Associate Professor in Bhattadev University, Bajali, Pathsala-781325 (Assam). He was looking after the Central Research Facility (CRF) as Coordinator. He was the convenor, DPGC of the Chemistry Department. He was the Departmental Coordinator, automation, up to January 31, 2024.
6. Dr M Yadav is the Departmental representative, Member, Committee for Internal Complaint Committee under Sexual Harassment of Women at Workplace Act 2013 and Member of Parent Teacher Association of KV, NERIST. She is the NBA and NIRF coordinator for the Department of Chemistry. She is the CTO of NCC (SW). She is a member of Gymkhana, NERIST and SPIC MACAY Club.
7. Dr Sashi Lata Bharati is the Departmental representative member of the Central Library Committee.
8. Dr N N Yadav is a member of the NEE Committee and the BoS of the Chemistry Department. He is also appointed as the Web Co-ordinator of the Department of Chemistry on 27.03.2024.
9. Dr A. Murugan is a member of the BoS of the Chemistry Department. He is also the warden of Hostel block-C, NERIST. He is looking after the Central Research Facility (CRF) as Coordinator. He is the convenor, DPGC of Chemistry Department. He is the Departmental Coordinator for automation.

Participation of the Faculty members in **the Departmental administration** was as follows:

1. Dr. MeeraYadav is the Laboratory in-charge of Chemistry Lab-II, PG Lab-IV and PG Lab-V.
2. Dr. J. Bhuyan was the Laboratory in-charge of PG Lab-IV, V& Instrumentation Lab till 31 January, 2024.
3. Dr. N. N. Yadav is the Laboratory in-charge of PG Lab-I and II
4. Dr. A. Murugan is the Laboratory in-charge of PG Lab-III.
5. Dr. N G Singh is the Laboratory in-charge of Chem Lab-I and Instrumentation Lab.
6. Dr. Sashi Lata Bharati is the In-charge of Departmental Library.

4.8.2 Academic activities:

The revised courses of UG, PG and Ph D courses (approved by the fourth Board of Studies held on 23.03.2017) have been implemented from academic session, 2017-18. The DPGC of the Department looks after various activities of the students of M Sc and PhD Courses. The various DC committees of the research scholars have been constituted to look after the progress of the work of the PhD students. Systematic approach has been made to engage theory and practice classes regularly. All the courses were fully covered in time. Tests and practical examinations were conducted successfully. Results of Semester examinations, supplementary examinations, make up tests and quizzes of all the courses were conducted as per schedule and the results submitted to the Controller of examination.



4.8.3 Laboratories and Laboratory Development:

In the Laboratories, Instrumentation facilities that are in working conditions are given below:

- i) Digital Conductivity meters
- ii) Polarimeters
- iii) Digital pH meters
- iv) Differential Scanning Calorimeter (DSC)
- v) Rotary evaporator
- vi) Melting Point apparatus
- vii) Digital Magnetic Stirrer with hot plate
- viii) Quartz Bi-Distillation
- ix) Variable volume micropipette
- x) Analytical balance
- xi) FT IR instrument
- xii) UV-VIS instrument (02 Numbers)
- xiii) Horizontal Laminar Flow
- xiv) BOD Incubator
- xv) Auto-clave sterilization machine
- xvi) Vertical Gel Electrophoresis
- xvii) Centrifuge machine

4.8.4 Projects completed by the UG/PG/PhD students:

The following **11 M.Sc. students** have successfully completed project work:

Sl. No.	Name of the student	Roll No.	Topic of project work	Name of Supervisor
1	PAGYIR RIBA	MS/22/CH/001	COPPER PORPHYRINS: SYNTHESIS, CHARACTERIZATION AND ANTIOXIDANT ACTIVITY	Dr. N. GHANASHYAM SINGH
2	HENGAM LAYE	MS/22/CH/002	SYNTHESIS, CHARACTERIZATION AND ANTIOXIDANT ACTIVITY OF NICKEL PORPHYRIN	Dr. N. GHANASHYAM SINGH
3	DENISH RANJAN KONWAR	MS/22/CH/003	PROTEIN DETERMINATION IN THE EXTRACTS OF INDIGENOUS HERBS; RARE (<i>PIPER PEDICELLATUM</i>) AND ONYOR (<i>ZANTHOXYLUM OXYPHYLLUM</i>)	Dr. SHASHI LATA BHARATI
4	TUPU NARZARY	MS/22/CH/004	REACTION OF MORITA-BAYLIS-HILLMAN ACETATE WITH PYRAZOLONE AS NUCLEOPHILE: REGIOSELECTIVE SYNTHESIS OF 5-HYDROXYPYRAZOLES	Dr. NAGENDRA NATH YADAV
5	ARFANA SULTANA BEGUM	MS/22/CH/005	CHARACTERIZATION OF ALCOHOL DEHYDROGENASE AND ITS APPLICATION IN ORGANIC BIO-TRANSFORMATION	Dr. MEERA YADAV
6	PRIYANKA BORAH	MS/22/CH/006	A FACILE SYNTHESIS OF 4-(HETEROARYL)METHYLENE-2-PHENYL-2-OXAZOLIN-5-ONES AND THEIR 1,5- BOND CLEAVAGE PRODUCTS	Prof. PRADEEP K. TRIPATHY
7	RIMJIM BHARALI	MS/22/CH/007	EFFECT OF HEAVY METAL IONS ON ALCOHOL DEHYDROGENASE ACTIVITY FROM <i>PHASEOLUS VULGARIS</i>	Dr. MEERA YADAV
8	DEBANGA BHUSHAN BARUAH	MS/22/CH/008	SYNTHESIS OF NOVEL SUBSTITUTED 2-AMINO/MERCAPTO-4-ALKOXYPYRIMIDINES BY DIRECT CYCLOCONDENSATION BETWEEN GUANIDINE/THIOUREA AND ACYCLIC/ CYCLIC α -OXOKETENEDITHIOACETALS	Prof. AKHILESH KUMAR GUPTA
9	WRITTIKA GOGOI	MS/22/CH/009	A FAST SYNTHESIS OF UNSATURATED AZLACTONES USING CONDENSATION BETWEEN SATURATED AZLACTONES AND SCHIFF BASES AND THEIR SUBSEQUENT AMINOLYSIS	Prof. PRADEEP K. TRIPATHY
10	TENZIN PALDEN	MS/22/CH/012	REACTION OF MORITA-BAYLIS-HILLMAN ACETATE WITH SODIUM <i>p</i> -TOLUENESULFINATE: REGIOSELECTIVE SYNTHESIS OF TOSYL SUBSTITUTED ACRYLATES	Dr. NAGENDRA NATH YADAV
11	DEVLINA SARMAH BHARALI	MS/22/CH/013	PROTEIN DETERMINATION IN SOLVENT EXTRACTED SOLUTIONS OF WHITE PEA AND WHITE BEAN	Dr. SHASHI LATA BHARATI



4.8.6 Short-term courses/seminars/workshops/conferences attended by the Faculty:

Dr Meera Yadav attended/participated in the following Programmes:

1. Awareness on Quality Assessment in NIRF and NBA from 16-20 Jan 2024. NERIST
2. 4th NEP 2020 orientation and sensitising program under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) from 29.02.2024 to 08.03.2024.
3. Researcher Academy On Campus Certificate of Attendance attended Elevating the research productivity through Scopus at NERIST, on Friday, 16 August, 2024

Dr. N N Yadav attended the following Programmes:

1. Participated in a one-week Nurturing Future Leadership Programme by IIM Udaipur from 18th-22nd November, 2024.
2. Attended a one-day Webinar conducted by Chemistry World Webinars (Merck Chemicals) on the topic “Copper-catalysed carbon-heteroatom bond-forming processes” by Stephen L. Buchwald on Oct 15, 2024.
3. Participated in a one-day workshop under SCHEME FOR TRANSFORMATIONAL AND ADVANCED RESEARCH IN SCIENCES, Ministry of Education, Indian Institute of Science, on the topic “PATENT FILING AND PRIOR ART SEARCH MECHANISMS: A PRACTICAL APPROACH” conducted virtually on September 21, 2024.
4. Participated in the two-week NEP-2020 Orientation and Sensitisation Programme conducted by Malaviya Mission Teacher Training Programme (MM-TTP), DDU Gorakhpur University, Gorakhpur, from 27.05.2024 to 05.06.2024.
5. Attended the Science Academies Lecture Workshop on “Contemporary Topics in Chemical Sciences” from April 24-26, 2024, at RGU, Itanagar.

Dr A Murugan attended the following Programmes: NEP-2020(online Mode)

1. Attended the 6th NEP 2020 Orientation & Sensitisation Programme under MM_TTP of UGC, organised by UGC-Malaviya Mission Teacher Training Centre, DDU Gorakhpur University, **Gorakhpur, from 27.05.2024 to 05.06.2024.**
2. Attended the NEP 2020 Orientation & Sensitisation Programme under MMTTP of UGC, organised by UGC-Malaviya Mission Teacher Training Centre, **NEHU, Shillong, from 04.11.2024 to 14.11.2024. Participation (Evening time from 07 PM to 10 PM)**
3. Participated in the **three-week online Hands-on Training on Single Crystal XRD Data analysis** held from 11 to 28 November 2024, organised by the SIAS Research Centre in association with Metrohm, India and MES Keveeyam College, Valanchery, Kerala.

Dr. ShashiLata Bharati attended the following Programmes:

1. Attended **NEP 2020 Orientation and Sensitisation Programme under MM-TTP** of UGC, organised by Teaching Learning Centre, IIT BHU, from 06-15 May 2024.
2. Participated in a one-week Short Term Training Programme on “**Academic Writing and Research Management: A complete course**” Jointly organised by RITE, Orisha and RSP Science Hub, Coimbatore, Tamil Nadu, 12-18 August 2024.
3. Participated in a one-week Short Term Training Programme on “**Innovative AI tools for Research Excellence: A hands-on STPP for Effective Writing and Data Visualisation**” jointly organised by the Department of Computer Engineering, Guru Govind Singh College of Engineering and Research Centre, Nashik, Maharashtra and RSP Science Hub Coimbatore, Tamil Nadu, 26-31 August 2024.
4. Attended and given Oral presentation on the paper entitled “ **Preparation and Characterization of nano composites using Graphitic carbon –Nitride**”, at the international conference on Integrating Social work, Science, Engineering and Management on 25 -26 October 2024, Jointly organized by Department of Social Work, Nehru Arts and Science College, Coimbatore, Tamilnadu and RSP conference Hub, Coimbatore, Tamilnadu.
5. Participated in a two-week FDP on “**Technology Enabled Teaching, Learning, and Process assistance for setting up of Electronics and Academies**”, MeitY, Government of India. From 3-14 Feb, 2025, at NERIST.

4.8.7 Achievements/awards/recognition earned by the faculty:

Received certificate of recognition for outstanding contribution as EDITOR for edited book titled “**Futuristic Trends in Biotechnology**” Volume 3 Book 6



4.8.8 Projects sanctioned by outside agencies to the faculty of the Department: TWO (02)

Dr Meera Yadav: Ongoing Project entitled "Impact of climate change on water resources of Arunachal Pradesh", Extended up to July 2024. Co-PI: Dr MeeraYadav and 05 more from other Departments. Funding Agency: DST, New Delhi, Date of Sanction: 28.12.202, Total Amount: Rs. 24651965.00

Dr A. Murugan: Theoretical Insights and Kinetic Study on the Atmospheric Chemistry of Organic Volatile Compounds and Fate of their Alkoxy Radicals (Approved by DST-SERB) and File Number: CRG/2023/002561 dated 04.01.2024. PI: Dr. Bhupesh Kumar Mishra, D. N. Government College, Itanagar, Arunachal Pradesh, Co-PI: Dr. A Murugan, Department of Chemistry, NERIST, Nirjuli, Arunachal Pradesh

4.8.9 Publications:

a) Referred Journals

Dr. Meera Yadav:

1. Shilpa Saikia, Meera Yadav, & Hardeo Singh Yadav (2024) "In-silico Analysis of Peroxidase from Raphanus Sativus" Current Proteomics. Vol. 21(5), 523-542. <http://dx.doi.org/10.2174/0115701646358965241221185918>
2. Rohida Amin Hoque, Meera Yadav "Impact of green synthesis of Ag-nanoparticle using extracellular manganese peroxidase on different dye degradation". Current Organocatalysis Vol 12, 1-14, (Accepted 2024) ISSN 2213-3372 <http://dx.doi.org/10.2174/0122133372366582250115002303>
3. Anindita Hazarika, Meera Yadav , "Computational analysis and inhibition study of carbonic anhydrase from Azadirachta indica leaves". Current Proteomics. Vol 21(5), Accepted 2024
4. Anindita Hazarika, Meera Yadav "Isolation, Purification, and Characterization of Carbonic Anhydrase from Spinacia olecea (Spinach) leaves and its Application in CO₂ Sequestration. The Natural Products Journal , Accepted 2024
5. Nene Takio, Anindita Hazarika and Meera Yadav "Biotransformation of Cinnamic Acid, Cinnamaldehyde, Furfural and Epoxidation of Cyclohexene by Plant Catalase " *Current Organocatalysis*, Volume 11, Number 3, 2024, pp. 185-204(20) <http://dx.doi.org/10.2174/0122133372268423231101072640>

Dr. Shashi Lata Bharati:

1. Pankaj Kumar Chaurasia, Shashi Lata Bharati. Coriander: A holistic outlook on its chemistry and pharmacology. *Food Chemistry* (Elsevier), 2024, 469, 142444. <https://doi.org/10.1016/j.foodchem.2024.142444> (ISSN:1873-7072, pages 20),
2. Nagraj, Pankaj Kumar Chaurasia, Shashi Lata Bharati, Nagendra Sharma, Jaynath Kumar, Azhagu Madhavan Sivalingam, Degradation of Dyes by Fungi: An Overview on Recent Updates, *The Microbe* (Elsevier), 2024, 100232. <https://doi.org/10.1016/j.microb.2024.100232>. (ISSN: 2950-1946)
3. [Sunita Kumari, Pankaj Kumar Chaurasia*](#) and [Shashi Lata Bharati](#), Must-Eat High Proteinous Plant Sources for Vegetarians: A Perspective, *Current Nutrition & Food Science*, 2024, <http://dx.doi.org/10.2174/0115734013355687241218104431>. (ISSN: 1573-4013)
4. Pankaj Kumar Chaurasia, ShashiLataBharati, Sunita Singh, SudhaYadava. Effective Proficiency of Manganese Porphyrins as Catalysts in Chemical Transformations: A Review, *Mini-Reviews in Organic Chemistry*, 2024, 21(4), 471-476. <http://dx.doi.org/10.2174/1570193X19666220513141040> (ISSN: 1570-193X)

Dr. N. N. Yadav:

1. Khom, S. T.; Saikia, P.; **Yadav, N. N.** (Facile synthesis of 3-amino substituted piperidines from L-glutamic acid) *Indian Journal of Chemistry* 2024, 63, 518 –523.
2. Pareek, A.; Khom, S. T.; Saikia, P.; **Yadav, N. N.** (A short and efficient Formal Synthesis of R-Pipecolic Acid from the Ring expansion of Chiral Aziridine) *Monatsh Chem* 2024, 155, 525-529.

**Dr. A. Murugan:**

1. M. Shellaiah, K. W. Sun, N. Thirumalaivasan, M. Bhushan and **A. Murugan**, Sensing Utilities of Cesium Lead Halide Perovskites and Composites: A Comprehensive Review, *Sensors*, 24 (2024) 2504. <https://doi.org/10.3390/s24082504> - **Science Citation Index Expanded** [Scopus & UGC Listed Journal with Impact factor-3.9].
2. I. U. Muzaddadi, **A. Murugan**, M. Hemamalini, M. N. Tahir, S. Saha, B. Benbaruah, M. F. Hussain, V. K. Mandal, B. Ahmed, Insights into Oxidovanadium (3,4,5-Trimethoxyphenyl)Porphyrin: A Comprehensive Study of Synthesis, Crystal Structure, Hirshfeld surface analysis and Computational studies, *J. Mole. Stru.* **2024**, 1315, 138764. <https://doi.org/10.1016/j.molstruc.2024.138764>- **Science Citation Index Expanded** [Scopus & UGC Listed Journal with Impact factor-4.0].
3. I. U. Muzaddadi, **A. Murugan**, M. Hemamalini, M. N. Tahir, N. Raman, B. Benbaruah, B. Ahmed, A. Manohar, A. Kulandaisamy, M. F. Hussain, and T. Rajkumar, Investigation of Oxidative Behaviour and Structural Insights of (3,4,5-Trimethoxyphenyl)Porphyrin Ni(II) Complex: Experimental and Theoretical Study, *Russ. J. Inorg. Chem.*, 2024, <https://doi.org/10.1134/S0036023624601521>- **Science Citation Index Expanded** [Scopus & UGC Listed Journal with Impact factor-1.8].
4. I. U. Muzaddadi, **A. Murugan**, S. Saha, N. Raman, F. S. S. Selvaraj,
5. A. Manohar, A. Kulandaisamy, P. Kumar, R. Borah, M. Shellaiah, C. R. Ravikumar and M. F. Hussain, Availability of π -Cation Radical in the Oxidative Products of Oxidovanadium Porphyrin: Significance for DNA Binding and Antibacterials Activity, *Applied Organometallic Chemistry*, 2024, 38 (12) e7722. <http://doi.org/10.1002/aoc.7722>- **Science Citation Index Expanded** (First published: 29 August 2024) [Scopus & UGC Listed Journal with Impact factor-3.7].
6. I. U. Muzaddadi, **A. Murugan**, N. Raman, A. Manohar, A. Kulandaisamy, V. K. Madal, P. Thillai Arasu, B. Bezbaruah, B. Ahmed and M. F.d Hussain, "Oxidation Product of Oxidovanadium Porphyrin: Combination of Experimental and Computational Study", *Russ. J. Electrochemistry*, 2024, 60, 1119-1132 **Science Citation Index Expanded** [Scopus & UGC Listed Journal with Impact factor-1.1].
7. M. Shellaiah, K.-W. Sun, K. Anandan, **A. Murugan**, V. Venkatachalam, M. Bhushan, M. Sivakumar, E. Manikandan, K. Kaliaperumal and W.-T. Li, Luminescent Pyrene-Derivatives for Hg²⁺ and Explosive Detection. *Chemosensors* **2025**, 13, 145. <https://doi.org/10.3390/chemosensors13040145> **Science Citation Index Expanded** [Scopus & UGC Listed Journal with Impact factor-3.7].

(b) Conference Papers:**Dr. N. N. Yadav**

1. Paper presentation on "*A short and efficient Synthesis of Piperidine and Azepane ring from the Ring expansion of Aziridine*" in the 30th ISCB International Conference (ISCB-2025) at the Department of Chemistry, Lucknow University, Lucknow, from Jan 27-29, 2025

(c) Books:**Dr. S.L. Bharati**

1. Pankaj Kumar Chaurasia, Shashi Lata Bharati, Sunita Singh (Eds). Book: The Chemistry Inside Spices and Herbs: Research and Developments: **Volume 4**, Publisher: **Bentham Science Publisher**, 2024, eISBN: 978-981-5196-83-2, 2024 ISBN: 978-981-5196-84-9, pages 01-217. <https://doi.org/10.2174/97898151968321240401>
2. Pankaj Kumar Chaurasia, Shashi Lata Bharati, Sunita Singh (Eds). Book: The Chemistry Inside Spices and Herbs: Research and Developments: **Volume 3**, Publisher: **Bentham Science Publisher**, 2024, eISBN: 978-981-5196-80-1, ISBN: 978-981-5196-81-8, pages 01-209. <https://doi.org/10.2174/97898151968011240301>

Book Chapters**Dr. Meera Yadav****Chapters in books:**

Rohida Amin Hoque, **Meera Yadav*** and Anindita Hazarika, Chapter "Sulphur and Magnesium-based nano fertiliser: synthesis, characterisation and its applications" in book entitled "**Nano fertiliser Synthesis and Types**" to be published by Elsevier, Elsevier ISBN: 978-0-443-13535-4, 2024

Dr. A. Murugan

- **A. Murugan**, R. Nagaraj, P. Thillai Arasu, V. Siva, M. Chakrabarty, S. Balamurali, M. Chandrasekaran and S. Kannan, Brief History of Nanotechnology-Based Sensors. In: F. M. P. Tonelli, A. Roy, M. Ozturk, H.C. Ananda Murthy, Nanotechnology-Based Sensors for Detection of Environmental Pollution, **Elsevier**, 107-136, **2024**, ISBN: 978-0-443-14118-8, <https://doi.org/10.1016/B978-0-443-14118-8.00007-3>



- **A. Murugan**, P. J. Sugumaran, V. Siva, M. Chakrabarty, P. T. Arasu, M. Saravanan, K. Sundar, T. Rajkumar, C. R. Ravikumar and G. Gure, Synthesis, Characterisation and Applications of Carbon Nanomaterials from a Nanobiotechnological Perspective. In: K. Biswas, Y. K. Mohanta, T. K. Mohanta and M. Saravanan, Carbon-Based Nanomaterials in Biosystems- Biophysical Interface at Lower Dimensions, Progress in Biochemistry and Biotechnology, Academic Press, Elsevier, 31-60, 2024. ISBN: 978-0-443-15508-6. <https://doi.org/10.1016/B978-0-443-15508-6.00013-0>
- Thillai Arasu Ponnusamy, Siva Vadivel, Kanthimathi Gomathinayagam, Sakthivel Arumugam, **Murugan Arumugam**, Rajkumar Thangamani, Raman Natarajan, C. R. Ravikumar and Nagendra Nath Yadav, Hybrid nanomaterials as semiconductors. In: S. Thomas, A. Saiter-Fourcin, K. P. Jibin (eds), Hybrid nanofillers for polymer reinforcement: Synthesis, Assembly, Characterisation, and Applications, Micro & Nano Technologies Series, Elsevier, 209-235, 2024, ISBN 9780323991322, <https://doi.org/10.1016/B978-0-323-99132-2.00006-6>.
- Ponnusamy Thillai Arasu, **Arumugam Murugan**, G. Kanthimathi, A. Malar Retna, S. Daphne Rebekal, N. Raman, R. B. Samual and T. J. Masho, Carbon-based nanomaterials in energy storage devices: fuels and biofuel cells. In: U. Kumar, P. K. Sonkar and S. L. Tripathi, Carbon-based nanomaterials for green applications, IEEE Press, Wiley, 275-305, 2025. ISBN: 9781394243396, <https://doi.org/10.1002/9781394243426.ch11>

Dr. N.N. Yadav

1. Hybrid Nanofillers for Polymer Reinforcement: Synthesis, Assembly, Characterisation and Applications; ISSN No. 978-0-323-99132-2; Elsevier publications.

Patents:

1. Fabrication of MG Doped Ag₂O Nanoelectrode for Sensor Applications, B. Chaithra, M. S. Shivakumar, C. R. Ravikumar, H. C. Ananda Murthy, **A. Murugan**, N. Raghavendra and Kah-Yoong Chan, Official Journal of The Patent Office, 14/2024 dated 05/04/2024, pages 19, No. of Claims 6.
2. Zn-ZIF Nanocomposite Electrochemical Sensor for Detection of Hg and Pb. C. R. Ravikumar, T. M. Sharanakumar, L. Ramavathu, T. B. Narsaiah and **A. Murugan**, Official Journal of The Patent Office Journal No.07/2025 Dated 14/02/2025

4.8.10 Achievements of students:

1. Bhaskar Jyoti Sakia, M.Sc. 2021 batch, qualified GATE-2024.
2. Rajtonoy Bharali, M.Sc. 2021 batch, qualified NET-JRF, GATE-2024
3. Rinku Dihingia, M.Sc. 2019 batch, qualified GATE-2024
4. Neki Borang, M.Sc. 2020 batch, awarded with National Fellowship for Higher Education of ST (NFST)-2024
5. Sasanka Bhuyan, M.Sc. 2022 batch, qualified NET-2024
6. Gatam Phukhan, qualified GATE-2025

PhD Thesis submitted/Awarded:

1. PhD awarded to Ms **Shilpa Saikia**, roll no. PhD/FT/19/CH/01 on the topic “STUDIES ON PEROXIDASE ACTIVITIES FROM RADISH AND ITS APPLICATIONS” 2024 under the supervision of **Prof. H. S. Yadav**
2. PhD awarded to Ms. **Anindita Hazarika**, roll no. PhD/FT/19/CH/02 on the topic “PLANT CARBONIC ANHYDRASES: IN VITRO DETERMINATION, CHARACTERIZATION AND ITS POSSIBLE GLOBAL IMPLICATIONS” 2024 under the supervision of **Dr Meera Yadav**.
3. PhD awarded to Archana Pareek, PhD/FT/17/CH/02) on the topic “Synthesis of Natural Products from Chiral aziridine and Development of new Synthetic Methodologies.” Registration Year: 2017, Completed year: 2024 under the supervision of **Dr. Nagendra Nath Yadav**.
4. PhD awarded to Sonam Tashi on the topic “Synthesis of natural products and biologically active compounds containing piperidine ring system and development of new synthetic methods.” Registration Year: 2018, Completed year: 2024 under the supervision of **Dr. Nagendra Nath Yadav**.
5. PhD awarded to Mr. Ijaz Ullah Muzaddadi, PhD/FT/19/CH/03, Reg. no. 519/057, on the topic “Electrochemical Studies on Redox Properties of some Metalloporphyrins in the year 2024 under the supervision of **Dr. A. Murugan**



Paper presented in Seminars/Conference by students:

Ms. Neki Borang participated in the 2nd International Conference in Chemistry-2025 on Innovation in Chemical Sciences for Sustainable Development (Jan 30-31, 2025) organised by the Department of Chemistry, M.A.N.U University, Hyderabad, India



4.9 DEPARTMENT OF PHYSICS

4.9.1 A Brief Profile of the Department of Physics

The Department of Physics came into existence as a full-fledged Department in 1993. Earlier, it was a part of the Physical Science Group since the inception of the Institute in 1986. The Department has highly qualified faculty members with a wide variety of specialisations, with a mix of both Pure & Applied Physics, Mathematical Physics, Climate Physics, Solar Energy, Acoustic Phonetics, Rainwater Harvesting, Science Popularisation, Group Theory, Chemical Physics, Electronics, Condensed Matter Physics, High Energy Physics, Microwave Electronics and Antenna. In addition to teaching, the faculty members are actively involved in research. Also, some of the faculty members have acted as reviewers of different Science journals, like Materials Today, Journal of the International Academy of Physical Sciences and other reputed journals and examined PhD theses of different Universities. The Department is running M.Sc. and PhD programmes successfully. B.Sc. programme will also be introduced from the July-December 2025 academic session. The Department has been offering a PhD Programme since 2007. At present, there are eleven faculty members (five have joined recently) in the Department, out of which one is on lien.

Faculty Profile

Faculty members who were engaged in teaching, research, administration for minimum one semester in the period from 1st April 2024 to 31st March 2025.

Sl. No.	Name & Designation	Qualification, Year & University	Areas of Research interest
1.	Dr. Mukesh Upadhyay Professor & HoD	PhD, 2005 Dr. R. M. L. Awadh University	Solid State Physics, Electronics
2.	Prof. Tado Karlo, Professor	PhD, 1997 Delhi University	Mathematical Physics, Climate Physics, Solar Energy, Acoustic Phonetics, Rainwater Harvesting, Science Popularization, Group Theory, Chemical Physics
3.	Dr. Rajesh Kumar Yadav Professor	D.Phil., 2007 Allahabad University	Theoretical Condensed Matter Physics
4.	Dr. Kamal Saharia* Assistant Professor	PhD, 2009 Gauhati University	Theoretical Plasma Physics
5.	Dr. Kunal Borah Associate Professor	PhD, 2014 Tezpur University	Electronics, Microwave Electronics, Antenna
6.	Dr. Akbari Jahan Assistant Professor	PhD, 2014 Gauhati University	Theoretical High Energy Physics & Phenomenology

*Dr. Kamal Saharia is serving in Assam on lien since February 01, 2024, as an Associate Professor.

4.9.2 Academic Activities

As in the previous year, the Department of Physics offered **seven core courses** for the undergraduate students at different levels (Base and Degree) of Engineering and Applied Science Streams. Details of these courses are:

Module	Course Code	L-T-P-Cr	Title of the course
Base (Certificate Program)	PH11101	3-0-2-4	Physics- I
	PH11201	3-0-2-4	Physics- II
Degree	PH21101	4-0-2-5	Engineering Physics
	PH21102	4-0-2-5	Introduction to Mechanics
	PH 21201	4-0-2-5	Quantum Mechanics for Engineers
	PH21202	4-0-2-5	Oscillations, Waves and Optics
	PH21203	4-0-2-5	Introduction to Electromagnetic Theory



(A) Department of Physics offered a Condensed Matter Physics-centric M.Sc. (Physics) program, course details of which are given below:

Module	Course Code	L-T-P-C	Title of the course
M.Sc.	PH-7101	3-1-0-4	Classical Mechanics
	PH-7102	3-1-0-4	Mathematical Physics
	PH-7103	3-1-0-4	Computational Physics & Programming
	PH-7104	3-1-0-4	Quantum Mechanics-I
	PH-7151	0-0-6-3	General Physics Lab-I
	PH-7152	0-0-6-3	Computer Lab (Programming in C++)
	PH-7201	3-1-0-4	Electrodynamics
	PH-7202	3-1-0-4	Statistical Mechanics
	PH-7203	3-1-0-4	Elementary Condensed Matter Physics
	PH-7204	3-1-0-4	Quantum Mechanics-II
	PH-7251	0-0-9-5	General Physics Lab-II
	PH-7252	0-0-9-5	Condensed Matter Physics Laboratory
	PH-8101	3-1-0-4	Atomic & Molecular Physics
	PH-8102	3-1-0-4	Electronics
	PH-8103	3-1-0-4	Nuclear Physics
	PH-810*	3-1-0-4	Special Paper-I (Condensed Matter Physics)
	PH-8151	0-0-6-3	Optics & Nuclear Physics Laboratory
	PH-8152	0-0-9-5	Electronics Laboratory
	PH-8201	3-1-2-5	Group theory & Applications
	PH-820*	3-1-0-4	Special Paper –II (Condensed Matter Physics)
Ph-825*	0-0-6-3	Special Paper Laboratory (Condensed Matter Physics)	
PH-80**	3-0-0-3	Elective	
PH-8299	0-0-16-8	Project	

(B) Due to faculty shortage, guest faculty, along with regular faculty members, were engaged to conduct all the practical classes of UG courses. The practical physics classes for all the UG and PG courses were conducted in the following laboratories.

Module	Course(s)	Labs
Base (Certificate Program)	PH1101, PH1201	Physics Lab I
Degree	PH21101	Physics Lab II
	PH21102	
	PH 21103	
	PH21104	
	PH21105	
M.Sc.	PH7151	Physics Lab III/General and Nuclear Physics Lab, Optics Lab I & II
	PH7251	
	PH-810*	Solid State Physics Lab
	PH-820*	
	PH-8152	Electronics Lab

4.9.3 Laboratories & Laboratory Development

- (1) The M.Sc. programme of the Physics Department has a curriculum designed to train M.Sc. students to pursue research primarily in Chemical Physics and Soft and Condensed Matter Physics. Accordingly, M.Sc. and PhD laboratories have been developed to meet the experimental requirements in these fields only. This kind of biased academic ecosystem has discouraged those interested in areas of theoretical physics like particle physics, mathematical physics, plasma physics, quantum field theory, climate physics, etc.



- (2) The lighting system in all the labs has been upgraded to a more efficient LED lighting system, which saves energy for other uses.
- (3) Forty-five computers, along with necessary furniture, have been requisitioned for procurement for a new Computer Lab with an uninterrupted power supply for use by M.Sc. and PhD students.

4.9.4 Projects completed by the PG students

Project Coordinator: Prof. Tado Karlo

Sl. No.	Project Title	Supervisor
1.	Theoretical study of Electrical Pressure of Alkali Halide crystals with impurities	Prof. M. Upadhyay
2.	Synthesis and Characterization of SnO ₂ Nanoparticles	Prof. M. Upadhyay
3.	Theoretical study of optical properties of Alkali Halide crystals with impurities	Prof. M. Upadhyay
4.	Theoretical study of optical & electrical properties of thin films of calcium fluoride layer with mixture of layer of different materials	Prof. M. Upadhyay
5.	Study of structural, electronic and vibrational properties of Ga _x As _y (x+y=2-5) nanoclusters	Prof. R. K. Yadav
6.	Theoretical study of structural, electronic and vibrational properties of Zn _m Se _n (m+n= 2 to 5) nanoclusters	Prof. R. K. Yadav
7.	Structural, electronic and vibrational properties of Au _m Pt _n (m+n=2-5) nanoclusters: A DFT study	Prof. R. K. Yadav
8.	Design of sub 6 Ghz 5G microstrip patch antenna using linear slot	Dr. K. Borah
9.	Application of microstrip patch antenna for early Detection of breast cancer	Dr. K. Borah
10.	Design of a non-identical L-slot frequency reconfigurable microstrip patch antenna using PIN diodes	Dr. K. Borah
11.	A comprehensive study of parton distribution functions and proton structure function: Experimental measurements and theoretical interpretations	Dr. A. Jahan
12.	Analysing the impact of parton distribution functions on proton structure function in deep inelastic scattering experiments	Dr. A. Jahan
13.	Quantifying the role of quark and gluon distributions in determining proton structure function: A phenomenological investigation	Dr. A. Jahan
14.	Probing the internal structure of proton through parton distribution functions: Implications for high-energy collider phenomenology	Dr. A. Jahan

4.9.5 Short-term courses/seminars/workshops/conferences organised at NERIST.

1. Prof. Mukesh Upadhyay organised the workshop on “**NATIONAL SPACE DAY**” at NERIST on 23rd August 2024.
2. Prof. Mukesh Upadhyay organised the One-day workshop on “**FINALIZATION OF B.SC. (PHYSICS) SYLLABUS IN LIGHT OF NEP-2020**” at NERIST on November 14, 2024.
3. Prof. R. K. Yadav organised a One-day workshop on "Astronomy and Asteroid Hunting" on 10th January 2025 at NERIST in collaboration with the NGO, Scientific Temperament, under the auspices of the ISRO Space Tutor Program.
4. Dr K. Borah organised a “Training program on Application of Python and MATLAB on applied Sciences”, in collaboration with NIELIT, Itanagar, from August 8-12, 2024.
5. Dr A. Jahan organised the AICTE-approved self-funded face-to-face 3-day FDP on Introductory Universal Human Values at NERIST from February 7-9, 2025.
6. Dr A. Jahan organised the Universal Brotherhood Day celebration under UHV Cell, NERIST, in collaboration with Vivekananda Kendra Kanyakumari, Itanagar Nagar Sthan, on September 11, 2024.
7. Dr A. Jahan organised the One Week Student Induction Programme under Universal Human Values from August 19-25, 2024.



4.9.6 Short-term courses/seminars/workshops/conferences attended by the faculty

1. Prof. Mukesh Upadhyay attended 05 5-day training programme on “Application on Python and **MATLAB**” in Applied Sciences, organised in NERIST in association with National Institute of Electronics and Information Technology (NIELIT), Itanagar, during August 08 - 12, 2024.
2. Prof. Mukesh Upadhyay served as Coordinator of Introduction/Orientation Programmes on “**ANTI-RAGGING DAY**” Organised by HMC, NERIST during Aug. 12, 2024.
3. Prof. Mukesh Upadhyay attended the Nurturing Future Leadership Program (NFLP) under Malaviya Mission Training Programme at IIT Gandhinagar, Ahmadabad, Gujarat, during 23 – 28 June 2024.
4. Prof. Mukesh Upadhyay attended the 6th NEP 2020 Orientation & Sensitisation Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC), organised by UGC-Malaviya Mission Teacher Training Centre, D D U Gorakhpur University, Gorakhpur, from 27.05.2024 to 05.06.2024.
5. Prof. R. K. Yadav attended the 6th NEP 2020 Orientation & Sensitisation Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC), organised by UGC-Malaviya Mission Teacher Training Centre, D D U Gorakhpur University, Gorakhpur, from 27.05.2024 to 05.06.2024.
6. Prof. R. K. Yadav attended the 3-day FDP on “Inculcating universal values in technical education” organised by AICTE at NERIST during 7-9 Feb., 2025.
7. Dr K. Borah attended the One-week Faculty and Officers training Program on “Awareness on Quality Assessment in NIRF and NBA”, NERIST during 16-20 January 2024.
8. Dr K. Borah attended the One Week Malaviya Mission Teachers Training Program “Nurturing Future Leadership Program” at IIM Udaipur during 18-22 March, 2024.
9. Dr A. Jahan attended the 9th International Conference on Human Values in Higher Education, organised by UHV Foundation, AICTE, from November 22-24, 2024.
10. Dr A. Jahan attended the FDP on Education for Mental Well-being of Youth, organised by NITTTR Kolkata from November 11-13, 2024.
11. Dr A. Jahan attended the Asia Pacific Physics Week 2024, organised by the Asia Pacific Centre for Theoretical Physics, South Korea, from November 4-8, 2024.
12. Dr A. Jahan attended the International Conference on Sustainable Science and Technology for Tomorrow, organised by Woxsen University, Hyderabad, from September 16-20, 2024.
13. Dr A. Jahan attended the FDP on A Quality Improvement Program on Statistical Methods in Physics, organised by ICFAI University, Tripura, from July 15-19, 2024.
14. Dr A. Jahan attended the One Week national e-Workshop on Innovation & Intellectual Property Rights, organised by Innovative Technology Enabling Centre, CSIR-IMMT, Bhubaneswar, from June 24-29, 2024.
15. Dr A. Jahan attended the FDP on Experiential Learning for Improving Teaching Learning, organised by NITTTR Kolkata from June 3-7, 2024.
16. Dr A. Jahan attended the 4th International Conference on Mathematical Modelling, Computational Intelligence Techniques and Renewable Energy, organised by Manipal University, Jaipur and University of Barcelona, Spain, from May 29-31, 2024.
17. Dr A. Jahan attended the FDP on Life Skills for Empowering 21st Century Learners, organised by NITTTR Kolkata from May 6-10, 2024.
18. Dr A. Jahan attended the NEP 2020 Orientation & Sensitisation Programme, organised by MMTTC, IISER Bhopal, from April 15-24, 2024.
19. Dr A. Jahan attended the National Workshop on Quantum Physics, organised by IAPT from April 9-14, 2024.
20. Dr A. Jahan attended the FDP on UHV-II, organised by AICTE from March 25-20, 2024.
21. Dr A. Jahan attended the Online Workshop on Artificial Intelligence Awareness in Physics, organised by IAPT from February 15-20, 2024.
22. Dr. A. Jahan attended the Faculty and Officers Training Program on Awareness on Quality Assessment in NIRF and NBA at NERIST from January 16-20, 2024.

4.9.7 New Degrees/Professional Memberships obtained by the Faculty

1. Dr A. Jahan has completed a Certificate Course in Sanskrit conducted by the Central Sanskrit University, New Delhi.
2. Dr A. Jahan has completed the Certificate Course in Graphology conducted by SIFS, New Delhi.
3. Dr A. Jahan becomes a Life Member of the Indian Women Scientists’ Association (LM-1790) and the Ramanujan Mathematical Society (LM-2084).



4.9.8 Achievements/awards/recognition earned by the faculty

1. Prof. Mukesh Upadhyay was selected as an awardee for the prestigious “BHARAT SHIKSHA GAURAV PURASKAR” and a “CERTIFICATE OF EDUCATION EXCELLENCE” for outstanding achievements and remarkable contributions in the field of Education by KTK Outstanding Achievers and Education Foundation, and Helium Production, New Delhi.
2. Dr A. Jahan delivered a Contributory talk on the topic “Mellin moments of Parton Distribution Functions: Insights into Sustainable Science and Technology” in the International Conference on Sustainable Science and Technology for tomorrow, organised by Woxsen University, Hyderabad, from September 16-20, 2024 and was awarded the Best Technical Session.

4.9.9 Projects sanctioned by outside agencies to the faculty of the Department

Dr. Kunal Borah

Sl. No.	Couse Name	Funding Agency	Amount	Sanction Date	Role
1	Development of Radar Absorbent Materials (RAMs) using Carbon Based and Bamboo Charcoal based Composite	NEC	₹ 1985000/-	27 November 2024	Co-PI

4.9.10 Publications:

(a) Refereed Journals

1. “Anticipating Pressure Changes in Halides Under Compression”, Abhay P Srivastava, Brijesh Kumar Pandey and **Mukesh Upadhyay**, East European Journal of Physics **3**, 333-339 (2024).
2. “A theoretical equation of state to formulate the melting curve of metals with varying pressure”, Jaya Patel, Jyoti Gupta, Abhay Prakash Srivastava, **Mukesh Upadhyaya** and B.K. Pandey, Computational Condensed Matter **40**, e00921 (2024).
3. “The relevance of new exponential equation of state for semiconductors”, Abhay P Srivastava, Brijesh Kumar Pandey, A. K. Gupta and **Mukesh Upadhyay**, Iranian Journal of Science (2024) <https://doi.org/10.1007/s40995-024-01657-1>
4. “Dielectric studies of silica-doped barium titanate and linear low-density polyethylene nanocomposite as a substrate for flexible microstrip patch antenna”, P. Dutta, **K. Borah**, Indian Journal of Physics **98** (7), 2441-2453 (2024).
5. “Numerical evaluation of parton distribution Mellin moments”, **Akbari Jahan** and Diptimonta Neog, International Journal of Mathematics and Physics **15**(2), 16 (2024).
6. “Challenges and Prospects of Online Learning during and post Covid-19 pandemic”, **Akbari Jahan** and Habiba Hussain, Clareus Scientific Science and Engineering **2**(3), 03 (2025).

(b) Conference Papers

1. “Study of a Technology Enhanced Learning Platform for Continuous Assessment and Evaluation”, **Akbari Jahan** and Habiba Hussain, Perspectives and Strategies on Newage Education and Creative Learning, Springer Nature Singapore (2024); ISBN: 978-981-97-3700-0, https://doi.org/10.1007/978-981-97-3701-7_9.

(c) Book / Book Chapters

1. Dr. A. Jahan co-authored a Book entitled “Graphical insights into parton distribution functions: A comparative analysis”, Lambert Academic Publishing, UK; ISBN: 978-620-8-17131-5.



4.10. DEPARTMENT OF MATHEMATICS

4.10.1 A Brief Profile of the Department

The Department of Mathematics came into existence as a full-fledged Department in 1993. Earlier, it was a part of the Physical Science Group since the inception of the Institute in 1986. The Department has highly qualified faculty members with a wide variety of specialisations, with a mix of both Pure & Applied Mathematics. In addition to teaching, the faculty members are actively involved in research. Also, some of the faculty members have acted as reviewers of reputed journals, and examined several PhD theses of different Universities. The Department is a member of NBHM, Department of Atomic Energy, Govt. of India, which provides new books and journals free of cost regularly. The Department is running M.Sc. and PhD programmes successfully. At present, there are twelve research scholars registered for a PhD degree under the supervision of faculty members of the Department. Thirty-six research scholars have been awarded a PhD degree to date. At present, there are two professors and two Assistant Professors in the Department.

4.10.2. Academic Activities:

1. B.Sc. The programme has been approved and will commence from July 2025.
2. B.Sc. Syllabus finalised as per NEP-2020 and has been approved by the Academic Council.
3. PG and PhD programmes run by the Department.

4.10.3. Laboratories and Laboratory Development

Lab worksheet has been designed for PG courses, and the Computation Laboratory has been established.

4.10.4. Projects completed by the UG/PG/PhD students.

1. Project Guide: **Prof. M. M. Dixit** - Mr. Dusu Apa (Roll No. MS/22/MA/001) M.Sc. Dissertation Title: Linear Programming Problems and their Applications, May 2024
2. Project Guide: **Prof. M. M. Dixit** - Mr. Afroj Alam (Roll No. MS/22/MA/003, M.Sc. Dissertation Title: Linear Transformation, May 2024.
3. Project Guide: **Dr. C. P. Pandey** - Mr. Chukhu Loye (Roll No. MS/21/MA/007) M. Sc. Dissertation Title: Linear transformation and its applications, May 2023.
4. Project Guide: **Dr. C. P. Pandey** - PRIYANSHU TALUKDAR (Roll No. MS/22/MA/014) M.Sc. Dissertation Title: Solution of the Heat equation by the Fourier transform, May 2024.
5. Project Guide: **Dr. C.P. Pandey** - TADAR NABA (Roll No. MS/21/M2/007) M.Sc. Dissertation Title: The role of wavelets in Modern Biomedical Application May 2024.
6. Project Guide: **Dr. C.P. Pandey** - Manoj Borah (Roll No. MS/22/MA/012) M.Sc. Dissertation Title: Solution of integral equation by continuous wavelet transform May 2024.
7. Project Guide: **Dr. C.P. Pandey** - MRIGANKARARUAH (Roll No. MS/22/MA/011) M. Sc. Dissertation Title: Application of Legendre polynomials in wavelet transform
8. Project Guide: **Prof. B. K. Singh** - Mr. Nachiketa Prasad Sahoo (Roll. No. MS/22/MA/004) M.Sc. Dissertation Title: Baye's Theorem May 2024.
9. Project Guide: **Dr M. Hassan** - Ms Sabina Yasmin (Roll No. MS/22/MA/005) M.Sc. Dissertation Title: Evaluation of wave loads by coaxial solid and hollow cylinders in a uniform water of infinite depth, May 2023.
10. Project Guide: **Dr. M. Hassan** - Ms. Rini Gogoi (Roll No. MS/22/MA/013) M.Sc. Dissertation Title: Analytical solution of water waves due to the interaction of three coaxial hollow and solid cylinder in water of infinite depth., May 2024.
11. Project Guide: **Dr. M. Hassan** - Mr. Asif Ali (Roll No. MS/22/MA/002) M.Sc. Dissertation Title: Analytical solution for the wave forces in the presence of coaxial composite cylinders and a hollow cylinder in ocean of infinite depth, May 2024.

4.10.5. Short-term courses/seminars/ workshops/conferences organised at NERIST.

1. One-day workshop on finalisation of B.Sc. Syllabus as per NEP-2020 is organised on 13.11.2024 by Prof. M. M. Dixit
2. One-day workshop on National Mathematics Day is organized on 22.12.2024 by Prof. M. M. Dixit, Dr. C. P. Pandey and Dr. M. Hassan.

4.10.6. Short-term courses/seminars/workshops/conferences attended by the faculty.

Prof. B. K. Singh:

Study of some exponential inverse sine- logarithmic imputations techniques in presence of missing data using simulated data as well, 5th International Conference on Mathematical Sciences and Statistics 2024 (ICMSS 2024) during 24th and 25th September 2024, Putrajaya, Malaysia.

4.10.7. Publications:

(a) Referred journal & (b) Conference papers

1. **B. K. Singh** (2024), Exponential chain ratio estimator of finite population mean with imputation of missing data under two-phase sampling, *Advances and Applications in Statistics* 91(9), 1113-1135. <https://doi.org/10.17654/0972361724059>. P-ISSN: 0972-3617
2. **B. K. Singh** (2024), Modified exponential dual- to-ratio type estimator of finite population mean with imputation of missing data in case of two auxiliary variables under simple random sampling, *Advances and Applications in Statistics* 91(11), 1445-1464. <https://doi.org/10.17654/0972361724074> P-ISSN: 0972-3617
3. **B.K. Singh** (2024), Improved chain ratio type estimator of finite population mean with imputation of missing data in simple random sampling, *Journal of Indian Statistical Association* 62(1&2), 95-115.
4. **B.K. Singh** (2024), Estimation of exponential ratio-cum- exponential dual to ratio imputation techniques in sample surveys, *International Journal of Mathematics and Statistics*, Vol. 25, ISSN: 0974-7117 (print), ISSN: 0973-8347 (Online).
5. **B.K. Singh** (2024), Null controllability of fractional differential system with nonlocal infinite condition, *Journal of Fractional Calculus and Application*, Vol. 15(2), No.16, ISSN: 2090-5858, ISSN: 2090-584X(print).
6. **B. K. Singh**, Efficiency of logarithmic ratio cum logarithmic product estimators in double sampling using imputation techniques, *Advances and Applications in Statistics* 92(1), 55-76. <https://doi.org/10.17654/0972361725003>. P-ISSN: 0972-3617
7. **M. M. Dixit**, C. P. Pandey*, Pratima Devi, .Wavelet Frames in Sobolev Space Over Locally compact Abelian Group, *Bol. Soc. Paran. Mat.* pp 1-11, ISSN-2175-1188 (*Web of Science, Scopus*), VOL(42) 2024.
8. Prabhat Kumar, **M. M. Dixit**, Analytic Treatment of Time Fractional Nonlinear Dynamic System by Modified Decomposition Method, *Tuijin Jishu/Journal of Propulsion Technology* ISSN: 1001-4055 Vol. 45 No. 3(2024).
9. C.P. PANDEY*, **M.M. DIXIT**, MOPI ADO, KHETJING MOUNGKANGAND B.N. TRIPATHI, WAVELET TRANSFORM OF DISTRIBUTION ON LOCAL FIELD, *J. Appl. Math. & Informatics* Vol. 43(2025), No. 1, pp. 43 - 57 <https://doi.org/10.14317/jami.2025.043>, (*Web of Science, Scopus*).



10. Jyoti Saikia , **C. P. Pandey**, and Sunil Kumar Singh, The Continuous Wavelet Transform for a Laguerre Type Operator on the Half Line, *Bol. Soc. Paran. Mat.* pp 1-10, ISSN-2175-1188 in press (*Web of Science, Scopus*), *VOL(42) 2024*.
11. M. M. Dixit, **C. P. Pandey***, Pratima Devi .Wavelet Frames in Sobolev Space Over Locally Compact Abelian Group, *Bol. Soc. Paran. Mat.* pp 1-11, ISSN-2175-1188 (*Web of Science, Scopus*), *VOL(42) 2024*.
12. **C. P. Pandey**, M. M. Dixit, Mopi Ado, Sunil Kumar Singh, The Continuous Wavelet Transform in Sobolev Spaces Over Locally Compact Abelian Groups and Its Approximation, Properties, *Int. J. Anal. Appl.* (2023), 21:139, (*Web of Science, Scopus*), 2024. (*Web of Science, Scopus*)
13. Drema Lhamu, Sunil Kumar Singh and **C. P. Pandey**, The Continuous Quaternion Wavelet Transform on Function Spaces, *Bol. Soc. Paran. Mat.* (3s.) v. 2024 (42) : 1–11.. ©SPM –ISSN-2175-1188 online ISSN-0037-8712 in press SPM: www.spm.uem.br/bspm doi:10.5269/bspm.. 63502, 2024 (42), (*Web of Science, Scopus*)
14. **C.P. PANDEY***, M.M. DIXIT, MOPI ADO, KHETJING MOUNGKANGAND B.N. TRIPATHI, WAVELET TRANSFORM OF DISTRIBUTION ON LOCAL FIELD, *J. Appl. Math. & Informatics* Vol. 43(2025), No. 1, pp. 43 - 57 <https://doi.org/10.14317/jami.2025.043>, (*Web of Science, Scopus*)
15. Champak K Neog and **M. Hassan**; Hydrodynamic of surge radiation by a floating cylinder in the presence of bottom-mounted cylindrical obstacle in a two-layer fluid system, (2024) 145:13, page 1-24, *Journal of Engineering Mathematics*, DOI: <https://doi.org/10.1007/s10665-024-10339-1>, *Journal of Engineering Mathematics*, Springer Nature, ISSN 1573-2703 (online), print ISSN 0022-0833.
16. **M Hassan** et al.; Bifurcation, phase plane analysis and exact soliton solutions in the nonlinear Schrodinger equation with Atangana's conformable derivative, volume 182, no. 114724, (2024), *Chaos, Solitons and Fractals: the interdisciplinary journal of Nonlinear Science, and Nonequilibrium and Complex Phenomena*, Print ISSN: 0960-0779 Online ISSN: 1873-2887
17. **M. Hassan** et al.; Impact of temperature-reliant thermal conductivity and viscosity variations on the convection of Jeffrey fluid in a rotating cellular porous layer, accepted for publication on 28 August 2024, *Proceedings of the Royal Society A: Mathematical, Physical & Engineering Sciences journal*, London, England, SW1Y 5AG, ISSN (Online):1471-2946.
18. **M Hassan** et al.; Exact Solutions of Nonlinear Fractional Cahn-Allen Equation Aries in different Nonlinear Physical Phenomenon using Unified Technique, accepted for publication on 27 September 2024, *Fractals journal*, World Scientific, ISSN (print): 0218-348X, ISSN (online): 1793-6543.
19. **M Hassan** et al: The onset of Casson fluid convection in a permeable medium layer produced by purely inner heating with magnetic field, 2024, 55(3): 340-354, DOI 10.22059/JCAMECH.2024.374221.1011, *Journal of Computational Applied Mechanics*, Print ISSN 2423-6713, Online ISSN 2423-6705.
20. Lham Tashi, Mohammad Hassan; Analysis of hydrodynamic loads by a vertical hollow cylindrical structure in a two-layer fluid of finite depth, 2024; 21(6): 7730, <https://doi.org/10.48048/tis.2024.7730>, Scopus, Web of Science, Impact factor 0.8, E-ISSN: 2774-0226.
21. **M Hassan** et al.; Flow around a vertical hollow cylindrical structure in a two-layer fluid of uniform depth, Volume 15 Issue 4 (2024), Pages 15-29, <https://doi.org/10.54379/jma-2024-4-2>.
22. Champak K. Neog and **Mohammad Hassan**; Analysis of the pitch motion of a submerged buoy above a bottom-mounted cylindrical cession in a two-layer fluid system, accepted for publication on 27 September 2024.



4.10.8 Achievements of students

08 Research scholars have been awarded a PhD Degree in 2024

4.10.9 PhD Awarded.

Name of Guide: Prof. B. K. Singh

Mankupar Swer (Roll No. PhD/PT/19/MA/01) Title of the Thesis: Construction of Strata in Stratified Sampling under Superpopulation Model

Jyotishman Das (Roll No. PhD/FT/20/MA/01) Title of the Thesis: Study of Some General Classes of Estimators in Estimation of Population Mean in the Presence of Non-response.

Dibyajyoti Hazarika (Roll No. PhD/PT/19/MA/02) Title of the Thesis: A Study on Existence and Controllability of a Class of Fractional Dynamical Systems”

Deepjan Gohain (Roll No. PhD/PT/19/MA/03) Title of the Thesis: Improvement in Estimation of Finite Population Mean in Compromised Imputation in Two-Phase Sampling.

Name of Guide: Prof. M. M. Dixit

Dr. Pratima Devi (Roll No. PhD/FT/19/MA/01) Title of the Thesis: A Study of Certain Wavelet Transform on Hypergroup.

Dr. Mopi Ado (Roll No. PhD/FT/19/MA/07) Title of the Thesis: A Study of Certain Wavelets and Function Spaces.

Name of Guide: Dr. C. P. Pandey

Dr Khetjing Mounkang (Roll No. PhD/FT/19/MA/06) Title of the Thesis: A study on a certain type of Wavelet Packets and Wavelet Transforms.

Name of Guide: Dr. M. Hassan

Dr. Lham Tashi (Roll No. PhD/FT/19/MA/03) Title of the Thesis: Water waves interaction by a vertical hollow cylinder in a two-layer fluid.



4.11 DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

4.11.1 Brief Profile of the Department

The Department of Humanities and Social Sciences (HSS) offers a diverse range of courses in English, Economics, Psychology, Political Science, and Management for undergraduate students enrolled in engineering and technology programs. In addition to its robust academic curriculum, the Department confers doctoral degrees (PhDs) in Psychology, Economics, and English. The Department regularly organises short-term and need-based training programs, seminars, and specialised lecture series tailored for executives, teachers, and students. Faculty members have a distinguished record of completing research projects funded by reputed national agencies such as the ICSSR, the Ministry of Social Justice and Empowerment (Government of India), AICTE, and the Ministry of Education, among others.

The Department has 11 research scholars who are pursuing research in Economics, Psychology, Organisational Behaviour, and English.

4.11.2. Laboratories and Laboratory Development

Communication Skills Development Laboratory:

The Department of HSS has a Language Laboratory that can accommodate 60 students. This laboratory is equipped with AV and computing facilities loaded with language learning and communication skills software.

The Department of HSS has a Seminar Hall developed under the AICTE MODROB Scheme that can accommodate 56 students.

4.11.3. Short-term courses/seminars/workshops/conferences attended by the faculty: 02

4.11.4. Other Academic Activities:

The Department conducted a syllabus revision workshop in November 2024 to revise the syllabi of the undergraduate programmes in line with the provisions of NEP 2020. Experts in different disciplines were drawn from NIT Silchar, Kurukshetra, and Arunachal Pradesh. The revised syllabi were later approved by the Departmental Board of Studies in January 2025.

4.11.5. Publications:

Referred Journal:

Conference papers: 1. Ghuhato T., Parida, P., & Mall M. (2025) Do demographic factors influence the time spent on social media? A study among the university students of Arunachal Pradesh, India. Paper presented at the 4th Liberal Arts International Conference on Empowering the Future of Innovative Social Studies and Education. 29-30 March, 2024 (Online Mode) Organised by the Faculty of Liberal Arts at Raja Mangala University of Technology, Srivijaya, Thailand

Ghuhato T. and Parida P. (2025). Organizational Culture: Evidence from Selected Organizations in Arunachal Pradesh. International Conference on Emerging Trends in Management Practices (ICETMP-SAMAVAYA-2025), 21-22 Feb., 2025, L J University, Ahmedabad.

4.11.6. Interaction of faculty/Department with outside agencies

- Prof. P. Parida represented as a Member, Arunachal Pradesh State Higher Education Council.
- Prof. R. Barthakur is a Member of the Committee for Internationalisation of Higher Education as per the provisions of NEP 2020, for the Government of Assam.



4.11.7 Any other relevant information:

1. Dr. Ravi Kumar Gupta has joined the Department as Associate Professor of Economics.
2. Dr. Yuma Narah has joined the Department as Assistant Professor of Psychology.
3. Dr. Geling Modi has joined the Department as Assistant Professor of Economics.
4. Dr. Jango Sonam has joined the Department as an Assistant Professor of English (later resigned).

4.11.8 Additional responsibilities taken up by the faculty members of the Department:

Prof. P. Parida	<ul style="list-style-type: none">➤ Head of the Department (till June 2024)➤ Member, Board of Management (BoM), NERIST➤ Member, Academic Council
Prof. R. Barthakur	<ul style="list-style-type: none">➤ Head of the Department➤ Nodal Officer, CPGRAMS➤ AICTE Compliance Officer, EIP➤ Member, Academic Council➤ Member, IQAC for NAAC Assessment➤ Member, Institution's Innovation Council (IIC)➤ In-charge, Language Lab
Dr. Ravi Kumar Gupta	<ul style="list-style-type: none">➤ Advisor, Training and Placement Cell of NERIST
Dr. Yuma Narah	<ul style="list-style-type: none">➤ Member, Library Advisory Committee➤ Mental Health Counselor, NERIST➤ Member, NERIST Wellbeing Center➤ In-charge, Departmental Library
Dr. Geling Modi	<ul style="list-style-type: none">➤ Member, Institution's Innovation Council (IIC).➤ In-charge, Departmental Seminar Hall.



4.12 CENTRE FOR MANAGEMENT STUDIES

4.12.1 A Brief Profile of the Department

The Centre for Management Studies (CMS) stands as a beacon for moulding the future architects of business and policy in the northeast region of India. With an unwavering commitment to blend global perspectives with local nuances, CMS is dedicated to nurturing a cadre of leaders who can seamlessly integrate diverse value systems.

At the heart of CMS lies a comprehensive array of programs sanctioned by AICTE, spanning specialised areas such as Human Resource Management, Marketing Management, System Management, and Financial Management. Our offerings cater to a diverse range of learners:

- 2-year Residential Full-time MBA Program
- 3-year Part-time Program (Designed to accommodate the schedules of working professionals)
- PhD program in Management, available in both Full-time and Part-time formats, fostering cutting-edge research and scholarship.
- A forthcoming 4-year Residential Full-time BBA Program, poised to groom budding business minds from the ground up.

In addition to our core academic endeavours, CMS recognises the need for tailored, short-term courses to address the evolving needs of the industry and society:

- Our Management Development Programs (MDPs) cater to executives and government officials, equipping them with the latest tools and strategies for organisational success.
- Personality Development Programs (PDPs) cater to diverse target groups, fostering holistic growth and self-awareness.
- Motivational workshops inspire and invigorate, instilling a sense of purpose and drive.
- Through consultancy services, we extend our expertise to tackle multifaceted challenges in various domains of management

The Management Forum of NERIST (MaFoN) is a dynamic platform that fosters a vibrant intellectual ecosystem. It comprises students and faculty and orchestrates a myriad of professional activities, from expert talks by luminaries to seminars, group discussions, and outdoor activities.

Management Development Activities. It's a melting pot of ideas, innovation, and collaboration, propelling CMS to the forefront of management education and practice in the region.

4.12.2. Academic activities

Name of faculty members	Course code	Course Title	No. of students	No. of weekly hours
Dr. S Choudhury	MS7104	Statistics for Decision Making	30	03
	MS7106	Operations Research	30	03
	MS 7151	Visualization Tools for Managers	30	02
	MB 8191	Industrial Training	30	04
	MB7204	Management Information Systems	30	03
Dr. B Sarmah	MB8120	Sales & Distribution Management	12	03
	MB8121	Marketing of Services	12	03
	MB7201	Marketing Management	30	03
	MB8220	Integrated Marketing Communication	12	03
	MB8221	Consumer Behavior & Retail Marketing	12	03
Dr. M Mall	MB7104	Accounting for Managers	30	03
	MB8111	Corporate Taxation	14	03
	MB9001	Research Methodology [PhD]	14	03
	MB8110	Security Analysis & Portfolio Mgt.	14	03
	MB8210	International Financial Mgt.	14	03
	MB8211	Financial Derivatives & Risk Mgt.	14	03

**4.12.3 Doctoral student guidance by the faculty members**

Sl. No	Name of Scholar	Name of Supervisor	Status
1.	Ms. T. S. Devi	Prof. B. Sarmah	Awarded
2.	Ms. Jyoti Hatiboruah	Dr. S. Choudhury	Awarded
3.	Mr. Jyoti Prabhat Duarah	Dr. M. Mall	Awarded
4.	Ms. Laxmi Roy	Dr. M. Mall	Pre-submission
5.	Mr. Banta Natung,	Prof. R.M. Pant	Ongoing
6.	Mr. Licha Tado	Prof. R.M. Pant	Ongoing
7.	Ms. Athira R.	Dr. S. Choudhury	Ongoing
8.	Mr. Pill Biman	Dr. S. Choudhury	Ongoing
9.	Mr. David Lalrochunga	Dr. S. Choudhury	Ongoing
10.	Mr. S. K. Ghosh	Dr. S. Choudhury	Ongoing
11.	Ms. KriteM Thapa	Dr. B. Sarmah	Ongoing
12.	Mr. Harsh Singh	Dr. B. Sarmah	Ongoing
13.	Mr. Sange Tsering	Dr. M. Mall	Ongoing
14.	Ms. Jumshi Pate	Dr. M. Mall	Ongoing
15.	Mr. Aditya Man Borborah	Dr. S. Choudhury	Ongoing
16.	Mr. Abhisekh Prasad	Dr. S. Choudhury	Ongoing
17.	Mr. Gomar Basar	Dr. S. Choudhury	Ongoing

4.12.4 PG student guidance by the faculty members

Name & Roll no.	Title of Project Report	Supervisor
Pinak Deka (MBA/23/011)	Measuring service quality management using servqual model augmented facial emotion recognition.	Dr. S. Choudhury
Charu Nani (MBA/23/005)	Impact of Apatani Agricultural System: quantifying sustainability in current context.	Dr. S. Choudhury
Nabam Tadir (MBA/23/013)	A Study on Socio Economic Condition of Street Vendors in the Itanagar capital complex of Arunachal Pradesh.	Dr. M.Mall
Kana Tagru (MBA/23/017)	A study on technical efficiency of persimmon growers in Arunachal Pradesh.	Dr. M. Mall
Nagam Nalo (MBA/23/010)	The Impact of tourism on the local economy: A case based study in Namsai district Arunachal Pradesh	Dr. M. Mall
Soma Barman (MBA/23/020)	Adoption of computerised accounting system among micro enterprise in Arunachal Pradesh.	Dr. M. Mall
Vishal Rai (MBA/23/009)	The direct tax code 2025 and income tax act 1961 issues and challenges (comparative analysis).	Dr. M. Mall
Kanchan Gupta (MBA/23/018)	A study on consumer awareness to mitigate banking fraud in digital banking.	Dr. M. Mall
Pagjum Ete (MBA/23/003)	An analysis on life insurance on residents of Aalo West Siang District, Arunachal Pradesh.	Dr. M. Mall
Tailang Yarang (MBA/23/006)	Decision tree modelling to enhance business performance of micro, small and medium enterprises (MSMEs): A case study in context of Arunachal Pradesh.	Dr. M. Mall
Dongcha Yalik (MBA/23/001)	A study on cold storage infrastructure in Arunachal Pradesh: challenges and opportunities.	Dr. M. Mall
Chinmayee Sarma (MBA/23/019)	A study on customer satisfaction towards hospitality service at hotel oil field, Duliajan.	Dr. B. Sarmah
Sahin Ahmed (MBA/23/007)	An exploratory study on stress management practices among state bank of India employees.	Dr. B. Sarmah
Amit Rajan (MBA/23/008)	A study on consumer's awareness and perception towards millets and its products in capital complex area, Arunachal Pradesh.	Dr. B. Sarmah
Supriya Das (MBA/23/012)	A study on effectiveness of training in minimizing skill gaps: its impact on learning and development in airport management.	Dr. B. Sarmah



Sukanya Roy (MBA/23/004)	A study on the impact of work culture on employee job satisfaction at HDFC Bank in the capital complex region of Arunachal Pradesh.	Dr. B. Sarmah
Komal Jha (MBA/23/016)	A study on the impact of digitalization in HR practices in Indian overseas Bank.	Dr. B. Sarmah

4.12.5 Short-Term Courses/Seminars/ Conferences Organised

- March 13-14, 2024, Management Forum of NERIST (MaFoN) and Centre for Management Studies, NERIST hosted the much-awaited MeitY TIDE2.0 in collaboration with Arunachal Pradesh Innovation Park (API).
- February 3-14, 2025 Online Joint Faculty Development Program (FDP) on "Technology-enabled Teaching, Learning & Process for Institutes" Sponsored by Electronics & ICT Academy, IIT Guwahati, MNIT Jaipur, NIT Patna, and IIITDM Jabalpur, with NERIST, Arunachal Pradesh, as the Spoke Institute.
- March 25-31, 2025, Management Forum of NERIST (MaFoN) and Centre for Management Studies, NERIST hosted a one-week Entrepreneurship Management Development Program sponsored by the Ministry of Small and Medium Enterprises, and Indian Institute of Entrepreneurship, Guwahati.
- Dr. S. Choudhury delivered an invited talk on 'Developing SOP for Production' at DN Govt. College, Itanagar on October 28, 2024.
- Dr. S. Choudhury delivered an invited talk on 'E-Commerce for small businesses' at DN Govt. College, Itanagar on October 28, 2024.

4.12.6. Publications

Choephel, T., Garg, A., & **Mall, M.** (2024). Yak milk production in North-East India: Prospect of yak herding in Arunachal Pradesh. *Ind. J. Anim. Prod. Manag*, 40, 237-242. **SCOPUS**

- **Thapa, K., & Sarmah, B.** (2024). Barriers Faced by Female Entrepreneurs: A Conceptual Study. In *Women Entrepreneurship Policy: Context, Theory, and Practice* (pp. 187-200). Singapore: Springer Nature Singapore. **SCOPUS**
- **Lalrochunga, D., Parida, A., & Choudhury, S.** (2024). Systematic review on capacity building through renewable energy-enabled IoT-unmanned aerial vehicle for smart agroforestry. *Cleaner and Circular Bioeconomy*, 100094. **SCOPUS**
- **Lalrochunga, D., Renthlei, C. Z., Sarma, A. K., Parida, A., & Choudhury, S.** (2024, January). GIS-Based Image Processing for Farmland Site Selection: An Eastern Himalayan Region Perspective. In 2024, the 14th International Conference on Cloud Computing, Data Science & Engineering (Confluence) (pp. 447-452). IEEE. **SCOPUS**

4.12.7. Training and Placements

The Centre for Management Studies is celebrating its two-decade journey of shaping careers and ensuring 100% placement for MBA graduates. In the current year, with over 50% already securing positions with a median salary of ₹10 Lakhs CTC per annum, the Centre reaffirms its commitment to excellence in management education and placement success.



SECTION – 5

CENTRAL FACILITIES, SERVICES AND ACTIVITIES

5.1 CENTRAL LIBRARY

5.1.1. Brief profile of the Department:

The Central Library, established in 1983, is the heart of the Institute and provides one of its most important academic services. It is a well-equipped Library, centrally located with easy access, and it provides the right impetus for the intellectual growth of the students, teachers, research scholars & others around. The library has its own independent building of three floors with a carpet area of 3888 Sq. Meter. The reading room remains open from 6.00 AM to 2.00 am on all days, except on national holidays such as Independence Day and Republic Day.

The library holds a collection of 67,228 text and reference books, 37,638 textbooks in the Book Bank, and 2,631 e-books, along with new e-collections available through the **IEEE Xplore Digital Library**. It subscribes to 51 journals/magazines and 7 national/regional dailies to support enhanced learning. With its modern collection of knowledge resources and innovative information services, the Central Library plays a vital role in supporting the academic and research needs of students, faculty, and the surrounding community. Its holdings cover a wide range of subjects, with a strong focus on Science and Technology, Humanities and Social Sciences, Management, and other allied disciplines.

Library services are fully automated through an RFID-based Circulation and Security System and supported by high-speed Wi-Fi/Internet access for registered users.

The Institute is a member of the e-ShodhSindhu Consortium, MHRD, Govt. of India, which provides access to resources such as ASME, ASCE, Oxford University Press journals, and Web of Science. The library also holds ISI Codes on CD-ROM along with other educational DVDs. It receives literature and information services from the Indian Liquid Crystal Society, Bangalore, and the Kaziranga Wildlife Society of Assam as an institutional member. In addition, the library is a registered member of the National Digital Library (sponsored by MHRD and coordinated by IIT Kharagpur) and DELNET.

5.1.2 Books, Journals & Newspapers as on 31.3.2025

A) Books (Text & Reference)	= 67228
B) Books (Text) in Book Bank	= 37638
C) E-Books & New eBook collections via IEEE Xplore Digital Library.	= 2631
D) Journals/ Magazines	= 51
E) Newspapers	= 07

5.1.3. E-Resources / Journals

The Central Library, NERIST provides access to a wide range of electronic resources through **E-ShodhSindhu (ESS)**, **PM One Nation One Subscription (ONOS)**, and other institutional subscriptions.

A. Resources through E-ShodhSindhu (ESS):

Being a core member of the ESS (formerly INDEST) consortium, the faculty members & Students of NERIST are entitled to receive the following E-resources:



(Only those not included under ONOS)

1. Institute for Studies in Industrial Development (ISID) Database
2. J-Gate Plus (JCCC)
3. JSTOR Database
4. Economic & Political Weekly

B. Resources through ONOS (One Nation One Subscription):

Under the PM-ONOS initiative of the Government of India (operational since January 1, 2025), faculty members, researchers, and students have access to a vast collection of e-journals and databases from around 30 major international publishers, including:

1. IEEE (ASPP)
2. ACM Digital Library
3. ASCE Journals
4. ASME Journals
5. Oxford University Press
6. Cambridge University Press
7. Springer Nature
8. Taylor & Francis
9. Wiley
10. Elsevier (ScienceDirect)
11. Sage, BMJ, Project Muse, and many others.

C. Other Institutional Subscriptions:

- SCOPUS Abstract Database: <https://www.scopus.com>
- National Digital Library (NDLI): <https://www.ndl.iitkgp.ac.in>

5.1.4. Indian Standards

The library possesses a set of Indian Standards published by BIS on CD-ROM.

5.1.5. A/V Materials: 139 DVDs “Video Training Program” is available for different Departments.

5.1.6. Institutional Member

1. Indian Liquid Crystal Society, Bangalore,
2. Kaziranga Wildlife Society, Assam,
3. Association of Indian Universities, N. Delhi
4. National Digital Library, Sponsored by MHRD, New Delhi
5. Delhi Library Network (DELNET), New Delhi.

5.1.7. Departmental Library

Departmental library has been set up for all 11 Departments. The library has procured books for Departments are:

i) Physics	= 29	ii) Chemistry	= 86	iii) Mathematics	= 740
iv) Humanities	= 252	v) Agri. Eng.	= 275	vi) Civil Eng.	= 111
vii) Electrical Eng.	= 118	viii) Electronics Eng.	= 434	ix) Computer Sc.	= 234
x) Mechanical Eng.	= 190	xi) Forestry	= 71		



5.1.8. User Services/ Facilities

A) Circulation Service: The Library provides its core service of circulation from the stacks. Students and faculty are issued library books as stated below.

a) Faculty Member	15 books to each member
b) Technical Staff	5 books to each member
c) Officers & Ministerial Staffs	3 books to each member
d) Base Module Students	3 books to each Student
e) Degree Module Students	5 books to each Student
f) PG Students	6 books to each Student
g) PhD Students	6 books to each Student

B) Reference service/ Reading facility: The library provides reference service to users with a seating capacity of 80 persons and 3780 books of reference. A reading facility is provided separately with a seating capacity of 160 seats. The reading room remains open from 6 AM to 2 AM (Night) on all days (seven days/week), except on national holidays such as 15 August and 26 January. In addition, a dedicated reading room facility is available for PhD scholars.

C) Book Bank: A separate Book bank of 37638 vols. is provided to UG students as per the syllabus. The students get a set of textbooks for the semester covering all courses. The number of textbooks available module-wise is as stated below.

1. Certificate Module	: 10522 vols. - 154 titles
2. B. Tech Module	: 24466 vols. – 225 titles
3. Degree Forestry	: 2650 vols. – 103 titles

5.1.9. Library Automation

The library services are fully automated through the Advanced RFID Circulation & Security System through the LIBSYS Library Management System, and users have access to high-speed Wi-Fi/Internet facilities.

5.1.10. Average Circulation Issue/Return

300 books per day at the beginning of the semester and approximately 100 books per day on other days.

5.1.11. Library Advisory Committee as of 31-03-2025

Sl	Name	Department	Member
1.	Dr Rajesh Kumar Yadav	Physics	Chairman
2.	Dr. K. James Singh	Civil Eng.	Member
3.	Dr. S.L. Bharati	Chemistry	Member
4.	Dr. K. Saharia	Physics	Member
5.	Dr. M. D. Singh	Electrical Eng.	Member
6.	Dr. K.K. Mandal	Mechanical Eng.	Member
7.	Dr. C.P. Pandey	Mathematics	Member
8.	Dr. Raju Barthakur	HSS	Member



9.	Dr. Manmohan Mall	CMS	Member
10.	Dr. P.K. Pandey	Agriculture Eng.	Member
11.	Dr. Awadesh Kumar	Forestry	Member
12.	Dr. P.K. Dutta	Electronic Eng.	Member
13.	Dr. M. Marjit Singh	Computer Sc. & Eng.	Member
14.	Mr. D.M. Sahu till 04/03/2025 & Dr. Janu Komut from 4/03/2025 onwards.	Central Library	Member Sec.



5.2 TRAINING AND PLACEMENT

5.2.1. Profile of the Section:

Since its inception in 1991, T & P Cell has been instrumental in counselling the final year students in securing jobs in consonance with their knowledge and skills by organising campus interviews, while simultaneously exploring various avenues for their placement. Workshops are also being organised by the Cell for the pre-final and final year students to provide them with substantial exposure in the areas pertaining to their recruitment and facilitate their entry into leading and highly professional organisations.

5.2.2 Status report regarding activities:

Training

The Cell organises industrial training or field training for a period of 04 weeks for the Agricultural, Civil, Computer Science, Electrical, Electronics & Communication, and Mechanical Engineering students, at the end of the pre-final year during Summer vacation, which is a compulsory requirement in partial fulfilment of the requirements of B.Tech. curriculum. Some of the organisations where NERIST students undertook their training during 202 in online Mode are:

NERIWALM, Tezpur, IIFPT, Guwahati, OIL, Power Grid Corpn. of India Ltd., NTPC, NHPC, MEECL, IOCL, ONGC, NEEPCO, Airport Authority of India Ltd., IITS, NIC, BSNL, MSME, CETPA, LEARN & BUILD, POSOCO, DDK, NITS, Coal India Ltd., DRDO, etc.

Placement:

This Cell arranges On-Campus and Pool Campus drives for the final year B.Sc./ M.Sc. (Forestry), B. Tech./M.Tech. and MBA students. All facilities are provided to officials of companies to conduct campus interview at NERIST. The Companies/PSU which conducted Pool Campus/Campus interviews during the last academic year are as follows:

TCS, CAPGEMINI, INFOSYS, COGNIZANT, ITC INFOTECH, PENTAGON SPACE, ABZOOBA, OIL, JSW, HCL, RELIANCE JIOMART, INDRAPRASTHA GAS GRID, PLANET SPARK, INTELLIPAT, COLLABERA, SONATA SOFTWARE, CSGI, TAAZA, BCPL, VEDANTA, DELLOITE , VIKAS GROUP, RELIANCE INDUSTRIES LIMITED, LARSEN & TOUBRO, LTIMINDTREE, PRADAN.

The Placement Cell also guides and helps the final year students in securing jobs commensurate with their knowledge and other achievements, by organising campus interviews and exploring various avenues for their placement.

5.2.3 Initiatives of T&P towards improvement of Placement Statistics:

The training and placement cell has proactively conducted online trainings and preparedness programs aimed at enhancing students' career readiness by working in collaboration with White Board Foundation and Deltron Technology. A series of interactive sessions, viz., 'Art of Interview Cracking', 'Mastering the Essentials of Resume Making' and 'Soft Skills and Personality Development' were held. This provided valuable insights into industry expectations, effective job search strategies, resume building, and interview techniques and had an opportunity to host a session with Navy Veteran Captain Marak Pertin for a talk on career opportunities in the Indian Navy. By creating a platform for direct Interaction with experienced Professionals, students were able to clarify doubts, gain real-world knowledge, and develop the confidence needed to navigate their career paths. The initiative not only bridged the gap between academic learning and professional expectations but also empowered students to make informed decisions about their future.



To streamline the entire placement process, the Training & Placement Cell has agreed with M/s GREEKTURTLE, Bhopal, and adopted TnPSuite, later renamed as 'Superset', a software by the Firm. Now the placement process(s) has been totally automated and overcome operational challenges thereby forming a platform that connects students and recruiters to Placement Cell, which is serving as a Central Placement System, where we connect the students and the companies managing all data, tracking the work, automating all placement process steps, monitoring offers, analysing student performance to determine training needs, gaining insights from reports and customizing the system to office specific needs.

5.2.4 MoU with other Institutions:

NERIST has entered into a tripartite agreement with the Rajiv Gandhi University, Doimukh and National Institute of Technology (NIT) Arunachal Pradesh, to study, deliberate and suggest ways and means to improve the institutional ranking prospects and opportunities for the students for job placements within the existing human and financial resources of the Universities/Educational Institutions. Accordingly, the three institutions have decided to conduct joint workshops for students in areas like Communication and Soft skills, etiquette, and other skills as required by the industry and markets. Further, it has been decided to share the database of the students of three institutions with the prospective recruiters and conduct joint recruitment drives as well. In additions, MOUs have been signed with a few organisations such as AAI, IIT Ghy, KNORR BREMSE Technology Centre India Private Limited by the institute to carry out training & placement activities.



5.3 RESEARCH AND DEVELOPMENT (R&D)

5.3.1 Brief Profile

Research and Development Centre of NERIST is committed to fostering a culture of research and innovation among faculty, staff and students. It aims to create a conducive environment for research excellence, promote interdisciplinary collaboration, and contribute to economic and technological growth to form a dynamic platform for creativity, nurturing young minds and encouraging industry-relevant innovations. It also undertakes other R&D activities like filing patents, consultancy services, and academic-industrial collaborations across various disciplines of engineering and sciences.

As per UGC guidelines, the Research Advisory Council (RAC) has been constituted as follows:

Research Advisory Council (RAC) of NERIST

Chairman: Director (Prof. Narendranath S.)

Convenor: Dean (R&D) (Prof. Madhu Bala Sharma)

Members:

1. Coordinator, Research and Development Cell
2. Coordinator, Institute Industry Cell
3. Coordinator, Intellectual Property Rights Cell
4. Coordinator, Incubation and Entrepreneurship Cell

Member Secretary:

5. Coordinator, Research Information Management Cell

5.3.2 Research and Development Cell

(a) Details of ongoing research projects

Sl. No.	Title of the Project	Funding Agency	Name of PI	Name of Co-PI
1	Human Engineering and safety in Agriculture	ICAR	Dr. K.N. Dewangan	Dr. T. Patel
2	Characterizing pattern and process of alpine ecosystem in Indian Himalaya with special emphasis to Arunachal Pradesh (PRACRITI II)	SAC	Dr. O.P. Tripathi	Dr. Ashish Paul and Dr. Madhusudan Mishra
3	Network Analytics for user performance management, using machine learning and data analytics	AICTE	Dr. Amar Taggu	
4	Ergonomic Design and Performance Evaluation of Self Propelled Multipurpose Weeder Suitable to Northeast Hilly Agriculture	AICTE	Dr. T. Patel	
5	Assessment of Variability in Glacier melt and Snow melt Runoff under Projected Climatic Scenarios for Data Scarce Himalayan River Basins	DST	Dr. Aditi Bhadra	Dr. Arnab Bandyopadhyay
6	Unnat Bharat Abhiyan (UBA)	IIT Delhi	Dr.P. Lingfa	



7	Exploration and conservation of high value wild edible macro fungi (WEM) from higher altitudes of Arunachal Pradesh and biotechnological evaluation of their nutraceuticals/novel metabolites	DBT	Dr.K. Shrivastava	Dr. S. S. Singh
8	Development of Employment generation feasibility in Ziro of Arunachal Pradesh through cottage industry for making biodegradable disposable serving dish utilizing locally available non-poisonous leaves and Renewable energy	DST	Dr. Adikanda Parida	
9	Use of non-toxic nanoformulation for prolonging shelf life and reduction of post-harvest loss of mandarin orange (Citrus reticulata) of North East India	DBT	Dr. Madhu Kamle	Dr. Pradeep Kumar
10	Impact of Climate Change on Water Resources of Arunachal Pradesh	DST	Dr. K. N. Dewangan	Dr. R.K. Prasad, Dr. A. Bandyopadhyay, Dr. P.K. Pandey, Dr. Meera Yadav, Dr. Ashish Paul
11	Development of solar operated paddy thresher for sustainable livelihood of Agricultural workers in North-eastern India	NECTAR	Dr. T. Patel	
12	Mass Propagation, packaging and marketing of wild ornamental banana from North Eastern India	DBT	Dr. Karuna Shrivastava	Dr. P.R. Gajurel & Dr. Bijoylaxmi Sarmah
13	Study and Development of Epoxy-Based Bamboo Composites for shipping containers using Indigenous Bamboo species of Arunachal Pradesh using Artificial Intelligence (Graph Neural Networks)	AICTE	Dr. Santoh Tamang	Dr. Kunal Borah
14	Exploration of native legumes and characterization of associated nitrogen fixing microsymbiots in North-Eastern India for development of biofertilizers	DBT	Dr. P. R. Gajurel	Dr. Suresh Kumar Singh
15	Design and Implementation of Financial Tracking and Management E-platform for Chartered Professional Accountants	IBITF-IIT Bhillai	Dr. Ningrinla Marchang	
16	Theoretical Insights and kinetic study on the atmospheric chemistry of organic volatile compounds and fate of their alkoxy radicals	SERB, DST	Dr. A. Murugan	
17	Impact of climatic variables on heat stress and real time monitoring with IoT based solutions for sustainable agricultural livelihood	DST	Dr. T. Patel	Mr. Anubhab Pal

(b) Details of ongoing consultancy research projects

Consultancy Project Title	Industry	Faculties involved
Software Validation	Mahindra and Mahindra	Mr. Anubhab Pal
Development of Flood Warning System for Tlawng River, Mizoram, Development of Rating Curve & Preparation of Water Data Yearbook	Irrigation & Water Resources Department (IWRD), Mizoram	Dr. Arnab Bandyopadhyay and Dr. Aditi Bhadra



(c) Faculty Development Program

- 1) One week Faculty Development program on “ AI and Data Analytics for Healthcare: Transforming the future of medicine was conducted by Department of Electronics and Communication Engineering during 26th to 31 August,2024.
- 2) One-week Faculty Development program on "High performance computing for ST/SC & Women" sponsored by C-DAC under NSM(MeitY), Govt.of India was conducted during 09th September to 13 September2024.
- 3) The Department of Electrical Engineering, in collaboration with the Department of Electronics and Communication Engineering, North Eastern Regional Institute of Science and Technology (NERIST), Arunachal Pradesh, organised an online one-week Faculty Development Programme (FDP) on “The Art of High-Quality Research Publishing” from 6th to 10th January 2025, in association with the E&ICT Academy, IIT Guwahati.
- 4) IIC (NERIST) in collaboration with NITTTR, Chandigarh, organised a one-week Faculty Development Programme (FDP) in online mode on “ Business startups and IPRs (ICT-90) from 20th to 24th January 2025.
- 5) Two-weeks Faculty Development Programme (FDP) organised on “Technology -enabled Teaching, learning and process for institutes” from 3rd to 14th February 2025, in online mode, in association with the E&ICT Academy, IIT Guwahati., NIT Jaipur, NIT Patna and IITDM Jabalpur with Centre for Management studies, North Eastern Regional Institute of Science and Technology (NERIST), Arunachal Pradesh as Spoke Institute.
- 6) One week online Faculty Development Programme (FDP) organised on “ Harnessing the power of AI: A comprehensive FDP for faculty and researchers ”, in online mode, in association with E&ICT Academy, IIT Guwahati, with North Eastern Regional Institute of Science and Technology (NERIST), Arunachal Pradesh as Spoke Institute from 24 to 28 March 2025.
- 7) A seven-day Entrepreneurship management Development program (EMDP) was organised by Centre for Management studies, NERIST in collaboration with Indian Institute of Entrepreneurship Guwahati w.e.f. 25th March 2025.

5.3.3 Incubation and Entrepreneurship Cell

The Incubation and Entrepreneurship Cell (IEC) was established in October 2023 to drive the innovation and start-up ecosystem at NERIST. The Institution’s Innovation Council (IIC), which works under the aegis of IEC, is an initiative of the Ministry of Education’s Innovation Cell (MIC). MIC focuses on creating and strengthening the culture of Innovation and Entrepreneurship ecosystem across all Higher Educational Institutes (HEIs) through the IICs set up in these institutions to enable them to promote and support student innovations and sustainable start-ups from academic institutions. Prof. (Mrs.) Ningrinla Marchang is currently the President of the IIC at NERIST. The IIC has been actively conducting various activities. The IEC is managed by a committee headed by the Director as Chairman.

The activities that were conducted during the period April 2024 to March 2025 are given as under:

S. No.	Activity	Resource Person(s)/Participants	Date
1	National Education Policy (NEP) 2020 Celebration Day: A talk on 'Road Map to Implement NEP 2020 at NERIST'	Prof. Aditi Bhadra, Prof. Deptt. of Agricultural Engg., NERIST	29 th July, 2024
2	Workshop on “How do I become an Entrepreneur? – Challenges, Opportunities and Strategies”	a) Dr. Nayan Basumatary, Founder, Xantra, Assam. b) Mr. Henry Sailo, Founder, MycoFoods, Mizoram	17 th August, 2024
3	My Story - Motivational Session by	Dr. Subasit Borah,	16 th Sept. 2024



	Successful Innovators: <i>Forging a Trail</i>	Asst. Prof., IITM Manipur	
4	Vitality Hour: Health & Harmony	Prof. R. K. Mehajan, Expert member, Technical commissions, WMO, United Nations	25 th Oct. 2024
5	Research to Impact: S&T landscape	Prof. R. K. Mehajan, Expert member, Technical commissions, WMO, United Nations	25 th Oct. 2024
6	Mission Innovation: Start Up - Stand Up - Stay Up	Prof. R. K. Mehajan, Expert member, Technical commissions, WMO, United Nations	26 th Oct., 2024
7	PINS (Promoting Innovation among NERIST students) program	Financially supported by NERIST Alumni Class of 1993	31 st August, 2024
8	Internal Hackathon for short-listing participating teams for Smart India Hackathon 2024	After presentation, 6 teams of 6 students each shortlisted	18 th Sep., 2024
9	Organized an FDP on 'Business Start-ups and IPRs' in association with NITTTR Chandigarh	Coordinator: Dr. Niraj Bala, Head, EDIC Dept., NITTTR, Chandigarh.	20-24 th Jan. 2025
10	Field visit to Innovation Hub, Itanagar	Mr. Subu Tarang, Mentor at Innovation Hub, Itanagar	1 st Feb, 2025
11	Session on "Mastering Product-Market Fit for Start-ups"	Dr. Shiv Sharma, Co-Founder and COO, Tan90 Pvt. Ltd., Chennai	22 nd Feb., 2025
12	Expert talk on "Process of Innovation Development, Commercialization of Lab Technologies & Tech-Transfer" organized	Mr. Rabindra Raj Binod Mistri. Founder and CEO Om space Rocket & Exploration Private Limited, Ahmedabad	25 th Feb., 2025
13	Poster Competition on the theme: 'Engineering Solutions for Global Challenges'	Presentations were evaluated by a 2-panel judge and prizes were awarded to the winning teams.	28 th Feb., 2025

5.3.4 Intellectual Property Rights Cell

NERIST faculty members achieved significant milestones in design innovation during the academic year 2024–2025. Multiple Design Registrations were successfully applied for and granted across diverse domains, including agricultural machinery, seed metering devices, harvesting tools, instrumentation, and utility equipment.

(a) Design registration

Sl. No.	Title	Date of application	Date of Grant	Design No.	Faculty name
1.	Seed knocking device for plate type seed Metering	04/12/2023	02/04/2024	401304-001	North Eastern Regional Institute of Science and Technology, Ph. Tejendra Sharma, K.N. Dewangan
2.	Solar powered agricultural crop seeder and harvesting equipment	24/02/2024	02/05/2024	408611-001	Anbarul Haque, Priyam Kashyap Sarmah, Suraj Tiwari. Santosh Kumar Tamang.
3.	Digital LCR Meter	24/04/2024	6/06/2024	414729-001	Radak Blange , Dr. Mukesh Upadhyay, Dr. Arvind Kumar Singh.
4.	Floating platform	08/08/2024	17/10/2024	426183-001	R. K. Prasad, G. Goswami, J. Darang, NERIST
5.	Manual Three Row Multi-Seed Dibbler	14/08/2024	08/10/2024	426972-001	Pal, Anubhab, Singh, H. D., Pasi, R. K., Marbom, T., Rymbai, M., Rimin, M., & Kochari, P.
6.	Szechuan pepper harvesting device	24/07/2024	19/09/2024	424314-001	Krishna Narayan Dewangan, B Surya Kumar Chhetry, Sarju Thokchom,



					North Eastern Regional Institute of Science And Technology
7.	Livestock dropping collector	25/11/2024	07/02/2025	438344-001	Krishna Narayan Dewangan, B Surya Kumar Chhetry, Sarju Thokchom
8.	Kiwi vines cutter	25/11/2024	06/02/2025	438352-001	Krishna Narayan Dewangan, B Surya Kumar Chhetry, Sarju Thokchom
9.	Single row zero till pea planter	06/01/2025	28/03/2025	443175-001	Ph. Tejendra Sharma, Krishna Narayan Dewangan
10	Backpack for carrying load in traditional baskets in Sherpa mode	16/01/2025	27/03/2025	444400-001	Krishna Narayan Dewangan, Thaneswer Patel, B Surya Kumar Chhetry, Sarju Thokchom

(b) A total of **05 patents** were granted to faculty members and researchers across domains such as medical devices, agricultural mechanisation, and utility-driven tools are listed below:

Sl.No.	Application No.	Title	Date of filing	Date of Grant	Patent No.	Inventor(s)
1.	202131034282	An automatic breathing support device for preventing mixing of gases	30/07/2021	25/06/2024	542853	M. Marjit Singh and H. Saratchandra Sharma
2.	202121006611	Remote controlled turing mechanism of power tiller with safety features	17/02/2021	29/07/2024	546351	P. K. Pranav,S. K. Chetry,Anubhab Pal, Mayangkhaba Aier
3.	202231048954	Power operated mini rhizome planter	26/08/2022	26/08/2024	548570	K.N. Dewangan,T. Patel, S. Thokchum,S. K. Chetry,B. Ningthoujam
4.	202331018933	A kiwi vine prunner device	21/03/2023	20/03/2024	529277	Krishna Narayan Dewangan, B Surya Kumar Chhetry, Sarju Thokchom
5.	202231048648	Battery assisted pineapple leaves pruning device	26/08/2022	30/08/2024	549396	Krishna Narayan Dewangan, B Surya Kumar Chhetry, Sarju Thokchom

(c) Copyright Registrations (2024–2025)

Sl. No.	Diary no.	Title	Date of application	Registration No.	Date of Registration	Owner
1.	7761/2024-COSW	Oyster mushroom plantation machine code	12/01/2024	SW-18950/2024	07/06/2024	H. Dayananda Singh, T. Patel
2.	23750/2024-CO/SW	IOT Integrated mushroom cultivation chamber climate management system	27/07/2024	SW-19908/2024	27/12/2024	H. Dayananda Singh, T. Patel, A. Pal
3.	24281/2024-	Computer software	01/08/2024	SW-	27/12/2024	A. Pal, S. K.



	CO/SW	work: A computer software for assisting steering of a tractor using GPS signal		19895/2024		Tamang, Pankaj Kumar
4.	4434/2024-CO/SW	Bio MMH model	08/02/2024	SW-18731/2024	07/05/2024	Mr. B Surya Kumar Chhetry, Mr. K. N. Dewangan
5.	10054/2024-CO/SW	Dynamic Anthropometric Measurement via Realtime 2D Image Processing (DAM-RT2DIP)	02/04/2024	SW-18873/2024	31/05/2024	Anubhab Pal, Huidrom Dayananda Singh, and Thaneswer Patel
6.	23750/2024-CO/SW	IoT-Integrated Oyster Mushroom Cultivation Chamber Climate Management System	27/07/2024	SW-19908/2024	27/12/2024	Huidrom Dayananda Singh, Thaneswer Patel, and Anubhab Pal
7.	24281/2024-CO/SW	Software for GPS-Based Steering Assist System for Tractor (TRACTSTEERGPS)	01/08/2024	SW-19895/2024	27/12/2024	Anubhab pal, Santosh Kumar Tamang, Pankaj kumar
8..	19541/2024-CO/SW	Spring resilience: assessing water scarcity and storage capacity for seasonal sustainability	14/06/2024	SW-19313/2024	12/08/2024	Pankaj Kumar Pandey, Vanita Pandey, Huidrom Dayananda singh, Prem Ranjan

Total Copyrights Registered: 8 software/digital works were registered in the 2024–2025 session

5.3.5 Institute Industry Interaction Cell

A total of three (03) MoUs are signed

S.No.	MoUs Formulated	Name of Agencies/Departments Involved	Year
1.	Academic and Research Collaboration	North Eastern Regional Institute of Water and Land Management (NERIWALM), Tezpur	June,2024
2	Internship program	Airport Authority of India	May,2024
3	Academic and R& D activities	National Institute of Hydrlogy, Roorkee	Feb.2025

5.3.7 Publication details

Publication types	Numbers
Journal Article	145
Book Chapter	7
Conference Paper	24

5.3.8 I-STEM

I-STEM is registered, and 3 pieces of equipment have been approved by the I-STEM core team. Several Department heads and the credential for the Department in charge have also been generated.



5.4. CONTINUING EDUCATION PROGRAMME

5.4.1. A Brief of the Section.

- a. To provide information to the bright meritorious students about the Early Faculty Induction Programme (EEIP) sponsored by AICTE and other agencies.
- b. To provide information to faculty members regarding financial assistance from the Government or sponsoring agencies so that they can apply for grants from these agencies for book writing, material preparation, etc.
- c. To provide timely information and pro-forma for faculty members to apply to AICTE or other sponsored Short-Term Training Programmes, etc.
- d. To encourage and coordinate faculty members/Departments for specially formulated self-financing/sponsored short-term courses for Industry, R&D personnel.

5.4.2 Status report regarding activities:

- a. A member of faculty members have attended Seminar/Workshop/Short Term courses/National & International Conference during this period.
- b. Various departmets of NERIST have also organized some short term programme in NERIST during this period.



5.5 KENDRIYA VIDYALAYA

5.5.1 A Brief Report of the K V and Its Activities

Kendriya Vidyalaya NERIST, since its inception in 1995, have always thrived for excellence in various fields of students' development. The Vidyalaya focuses on the all-round development of the students, imparting values and quality education in a holistic environment. The Vidyalaya continues its progress and success in various fields. In the academic year 2024-25, the total enrolled students were 463 from classes I to XII. Other than its academic curriculum, the Vidyalaya had participated and brought achievements in various fields. In the academic session 2024-25, 165 students were registered in the Bharat Scouts and Guides Movement with 3 Guide Captains. And amongst them 7 Guides & 3 Scouts have successfully completed and earned Certificates of Tiritiya Sopan and 4 Guides and 2 Scouts have completed and earned the Certificates of Rajya Puraskar. In the Ek Bharat Shresth Bharat and Kala Utsav cluster level competitions, the Vidyalaya had secured various positions, viz. Traditional Storytelling (first), Drama (First), Tribal Dance (Second), Group Song (Second), Orchestra (Third), Group Dance (Third), Painting (Third). And in the Regional Level EBSB and Kala Utsav, the Vidyalaya has bagged third position in the Drama Competition. In RSVBP (Rajya Stariya Bal Vaigyanik Pradarshan), 9 students from our Vidyalaya participated, and 3 students have been selected for the National level RSBVP.

In sports too, our students have participated till the KVS Nationals in categories like Yoga (Under-17), Badminton (Under-17) and Basketball (Under-17). One boy, namely Likha Hwkw from class IX has bagged Gold medal in All India Sub-Junior Karate Championship.

In academics, 41 students appeared in class X CBSE Board examination and 21 students appeared in XII CBSE Board examination. The pass percentage achieved in class X CBSE is 95.24% and 97.56% and in class XII. The academic session 2024-25 couldn't bring about excellence in the academic field, but nevertheless, the Vidyalaya will not cease to continue to strive for better.



5.6. KG SCHOOL

5.6.1 A Brief Profile of the KG School

NERIST KG School was established in

Kindergarten (LKG) and Upper Kindergarten (UKG).

Class	Maximum Strength	Present strength	Min. Age of Admission
Play UKG	22	20	03 years
LKG	45	45	04 years
UKG	45	47	05 years

5.6.2. Status report regarding activities

During the academic session, we organise cultural activities during Independence Day, and we also organise dance, song, art and craft activities during our regular classes. Teacher’s Day is being celebrated with great enthusiasm by our students. Competitions are organised in handwriting, rhymes and drawing during October. The annual function is organised on the 14th of November, Children's Day. A Picnic, sports, and a fancy dress competition are organised in January. Republic Day is celebrated in our school in the presence of the Chairperson, school management committee members, teachers/staff and the parents of the children. During classes, different teaching aids are used for better understanding of the children, and interesting videos are also being screened.

5.6.3 Highlights

The basic infrastructure, like space & building for the school, has been provided and maintained by the NERIST authority. The school is equipped with all kinds of teaching & learning aids, outdoor & indoor games, and facilities to develop extracurricular abilities in small children. It includes a big playground and children’s park within the school premises with facilities such as two safe plastic plane slides, a tunnel slide, Swings, a Merry-go-round, a See-saw, etc. For classroom learning, toys, tricycles, slides, charts, audio-video systems, computers, indoor play items, etc., are available.

5.6.4 List of Committee Members

The school management committee is responsible for running the school. The committee is headed by the chairperson/chairman, who the Director, NERIST, nominates. It has one representative member each from NFA, NTSU & the principal-cum-teacher of the school as member secretary.

Present Structure of School Management Committee

1. Prof.Joyatri Bora Hazarika – Chairperson
2. Dr. Santosh Tamang -- NFA representative
3. Mrs. S. Joshi -- NTSU representative
4. Mrs. Mithu Sarkar -- Principal, NERIST KG School



5.7 TRANSPORT SECTION

5.7.1 A Brief Profile of the Section

Transport Section of NERIST was established in 1987 under the administrative control to fulfil the need of in-campus and off-campus Transport requirements of the Institute's stakeholders., The Transport Section was kept under the control of the Chairman (TPT) and under the supervision of the Transport Officer, as the requirements for vehicle servicing and maintenance started growing. The Transport Section is providing better service round the clock for all the Institute's activities necessary for students, staff and their family members, Departmental works and other Official works, including the medical emergency service.

5.7.2 Services offered by the Transport Section:

- a) Providing the vehicles for in-campus and off-campus official duty as and when required, including odd hours.
- b) Providing the Bus service to NERIST students for attending classes at the South Block as per their schedule every day (Monday to Friday, 7.45 am to 5.30 pm).
- c) Providing vehicles to employees and students under the staff welfare and students scheme for religious and social functions on a payment basis as and when vehicles are available.
- d) Providing the vehicle for campus interviews of students at NERIST campus, Guwahati and other places, Seminars, Conferences, Short-term course, Short-term training programs, Students Study Tour, SHRISTI, RACAF, and Workshops organised by the faculty of various Departments of NERIST.
- e) Providing the vehicle to various Departments for conducting Practical Training to different module students, including field visits, Industrial visits both on campus and off campus, for students' development.
- f) Providing the vehicle to the NCC/NSS of NERIST for attending campus and awareness programmes, etc.
- g) Providing the ambulance service for students and employees of NERIST as and when required within the Capital Complex and even up to Guwahati for emergency medical treatment (24x7).
- h) Providing vehicles to physically handicapped students for their attending classes and other purposes like Social events related to the students' programme.

5.7.3 Status report regarding activities: -

The Transport Section is one of the most important supporting Departments of the institute. It runs a fleet of vehicles for official purposes. This Department has 2 heavy motor vehicles (Buses), 1 medium vehicle (Tata Mobile), and 6 light vehicles. Two buses are normally engaged in various activities such as Departmental purchases (local and outside), NERIST student duty for attending classes (7.45am to 5.30 pm), NERIST Students Educational tour, Student industrial visits, Practical duty, and Departmental/official duties.

AR-01N-7897 (Eeco Van): This vehicle is used for physically handicapped students' duty and other official duties when required by the Departments and Offices.

1 Innova Crysta is earmarked for the Director, NERIST.

1 Innova is detailed under Registrar, NERIST, Chairman BOM, and other official dignitaries visiting the Institute as guests, etc.

1 No. The details of the Maruti Ertiga are provided to all Deans as and when required for their Official duties.

1 No. of (Scorpio) is detailed for Director's cell, Registrar's Cell, Finance Section, Departmental Seminar, S&P Section, T&P Cell (for campus interview), and Academic Section Exam. Cell, HMC, Gymkhana, Library and other Official/Departmental works like meetings, seminars, etc.

1 No. (Tata Mobile) is detailed for the Transportation of material for Departmental and laboratory works, the EE (Civil) office (Institute Engineer), the E.O. office, the Store and purchase section, the Hostel HMC, the Library, the EMC, the Gymkhana, and as per Departmental and official requirements, etc.



1 Nos. of Ambulances TATA Sumo is detailed for medical service for students, employees, and their family members as and when required on-campus and off-campus (like Tomo Riba Institute of Health and Medical Sciences, Naharlagun, RKM Hospital, Niva Hospital, Papu Nallaha, Heema Hospital, and up to Guwahati Hospital/ Airport) for emergency medical treatment round the clock (24x7).

The Transport Section has water servicing /washing equipment for servicing and maintaining institute vehicles from time to time.

At present, the transport section has only 08 drivers. It requires an additional 02 Drivers for smooth functioning.

5.7.4 Highlights:

The Transport Section has helped the Institute in a big way to speed up the administrative activities by best utilisation of the vehicles, provision for (24X7) Ambulance Service for NERIST Students, Employees and their family members. There is a provision of a vehicle to NERIST Students for attending classes to the South Block (7:45 am to 5:30 pm), Departmental Seminar, Study Tour, Practical classes and Campus Interview for NERIST students as per their requirement. Also, vehicles are provided to all students and employees of NERIST at subsidised rates to their satisfaction.



5.8 NERIST HEALTH UNIT

5.8.1 NERIST Health Unit (NHU) is functioning with the following number of staff and Medical Officers as under:-

1. Dr. Sushmita P Taggu	Chief Medical Officer
2. Dr. Popi Camdir Tok	Medical Officer
3. Dr. Gyamar Inja	Medical Officer (Was on study leave till 12/03/2025)
4. Mrs. Vandana	GNM (On Deputation)
5. Mrs. Techie Julie	GNM (On Deputation)
6. Ms. Honi Yani	B.Sc. (Nursing)
7. Ms. Likha Yatup	ANM
8. Mrs. O. Barman	Xerox operator
9. Mr. Minyo Blange	Lab Assistant
10. Mr. E. Deomari	Lab Assistant
11. Miss. Poornima Deb	Attendant
12. Mrs. Koj Yallo	Helper
13. Mr. Mahesh Mallick	Sweeper

5.8.2. Facilities & Services

1. OPD (Outpatient Department):

- Operates daily from 9:30 AM until 05:00 p.m.
- Caters to routine consultations for students, staff/faculty, and the nearby public.
- Total number of OPD patients (staff/students): **11,139**.
- Total number of OPD patients (nearby public): **2,253**.

2. Emergency and Monitoring/Ward Services:

- 24×7 Ambulance availability for the transport of patients.
- 24×7 Pharmacy for essential medications and supplies.
- 24×7 Emergency Medical Care with doctors on call, particularly after 5:00 PM.

3. Laboratory Services:

- Basic diagnostic tests performed on-site.
 1. Haemoglobin
 2. Blood sugar
 3. Dengue/Typhoid/Malaria
 4. Urine Pregnancy Test
 5. Troponin
 6. Urine Dipstick
 7. Blood Grouping
- Advanced or specialized tests referred to external labs when necessary.

4. Wellness Centre for Students and Staff Members

- One psychologist visits every Saturday for two hours for counselling

**5. Dressing Room services:**

- Minor OT procedures/suturing/dressing

6. Isolation Ward

- Used extensively during COVID to isolate affected students and staff members

5.8.3 Activities & Camps**1. Health Camps & Awareness Programs**

- General Health Camps
- CPR/BLS Training sessions for staff, students, and interested volunteers.
- Blood Donation Camps encouraging donors from the campus community.
- Workshops on topics such as healthy living, “health for youth”, organ donation etc.

Details:

Sl. No.	Date	Details of the Health Camp	Number of Beneficiaries
1.	27/02/2024 06/09/2024 08/05/2024	Bone Marrow Density (BMD) Test	200+
2	23/02/2024	Basic Life Saving Skills (CPR/AED)	40
3	04/04/2024	Organ Donation Awareness Camp	300
4	06/04/2024	Health for Youth Workshop	100+
5	15/07/2024 09/08/2024 13/01/2025 08/02/2025	Diabetes and Cholesterol Screening	300+
6	27/02/2025 09/05/2024 23/08/2024 26/11/2024	Haemoglobin Camp	200+
7	12/09/2024 02/12/2024 15/02/2025	Fibro Scan	200+
8	02/09/2024	Spirometry	25
9	19/10/2024 28/10/2024	Blood Donation Camp (In collaboration with Vihangam Yoga Sanathan Samaj and Mizo Society)	80
10	16/11/2024	CPR Training for Students and Staff	50
11	23/10/2024	Workshop on Deceased Organ Donation (in collaboration with Zublee Foundation)	100+
12	19/12/2024	AI-based Diabetes Retinopathy Screening	40
13	18/05/2024	Special Talk on Diet and Nutrition for a Healthy Brain (in collab with NSS)	50
14	19/06/2024	Talk on Sickle Cell Day	50
15	01/10/2024	One day state level consultation workshop on available schemes for malnourished and stunted children	40
16	29/04/2024 – 05/05/2024	School Health Program for students of KV NERIST	339



Routine Immunization

- Yearly Polio (IPPI) vaccination in coordination with government health agencies.
- Monthly routine immunisation for children below 5 years in collaboration with state government of Arunachal Pradesh

5.8.4 Collaborations with NGOs

The following collaborations with NGOs and other organisations were held:

- Organ Donation awareness (Zublee Foundation).
- Blood Donation Camps (Vihangam Yoga Sanathan Samaj, TRIHMS Naharlagun, Mizo Society).
- Cancer Awareness (in coordination with the State Cancer Society).
- Nutrition Awareness (in collaboration with Arunachal Pradesh State Commission for Protection of Child Rights (APSCPCR))



5.9 SC/ST Cell of NERIST

A Brief Profile of the SC/ST Cell:

The SC/ST Cell was established in the North Eastern Regional Institute of Science and Technology (Deemed-To-Be-University) for the general welfare of the students and staff members belonging to the Schedule Caste (SC) and Schedule Tribe (ST).

The main objectives of the SC/ST Cell, as per the UGC guidelines of 1988, are as follows:

1. To implement the reservation policy in the Universities and Colleges.
2. To collect data regarding the implementation of policies with respect to admissions and appointments to teaching and non-teaching positions in the universities and affiliated colleges, and analyse the data showing the trends and changes towards fulfilling the required quota.
3. To take such follow-up measures to achieve the objectives and targets laid down by the GoI and the UGC.
4. To implement, monitor and evaluate continuously the reservation policy in the Institute and its off-campuses, and plan measures for ensuring effective implementation of the policy and programme of the GoI.

Functions of SC/ST Cell

The function of SC/ST Cell as per the UGC Guidelines of 1988, is as follows:

1. Circulate the decisions of GoI and UGC and collect information regarding course-wise admissions to candidates belonging to the SC and ST communities in the Institute and its off-campuses for different programmes in the suitable forms prescribed by a stipulated date. Then, on an annual basis, take follow-up action, where required.
2. Circulate GoI orders and the Commission's decisions, collect information about the appointment and training of personnel from these communities in teaching and non-teaching posts in the Institute and its off-campuses by a stipulated date, and take follow-up action where required.
3. Collect reports and information regarding GoI orders on the various aspects of education, training and employment of SC/ST candidates, for evolving new policies or modifying existing policy by the Commission.
4. Analyse information on admissions, education, training and employment of SC and ST and prepare reports and digests for onward transmission to the Ministry of Human Resource Development/UGC and other such authorities as may be required.
5. Deal with representations received from SC and /or ST candidates regarding their admission, recruitment, promotion, and other similar matters in universities/colleges.
6. Monitor the working of the remedial coaching scheme, if approved in the affiliated colleges and universities.
7. Function as a Grievances Redressal Cell for SC/ST students and employees of the university and render them necessary help in solving their academic as well as administrative problems. For this purpose, the Cell shall maintain a Register of grievances to record the grievances received, action taken to resolve or dispose off the grievance.
8. Maintain a register for employment of SCs/STs in the University and colleges for the candidates belonging to SC/ST communities for various posts in the university/colleges.
9. Any other work assigned from time to time to promote higher education among the communities suffering economic, social and educational deprivations.
10. Engage exclusively on the matters of SCs/STs alone, and other matters to be assigned to the SC/ST Cell.
11. Provide data pertaining to SC and ST matters whenever required by the UGC. If the required data is not submitted by the given date, the UGC reserves the right to withhold either plan or non-plan grant until

the required information/data is received. Hence, universities/colleges are advised to supply the necessary information as required.

The following personnel were nominated by the Director, NERSIT for the functioning of the SC/ST Cell:

1. Dr. Govinda Pangging, Liaison Officer (In-charge), SC/ST Cell.
2. Mr. Doje Kamduk, Assistant Liaison Officer, SC/ST Cell.

If there is any harassment or caste-based discrimination against members of Scheduled Castes and Scheduled Tribes in NERIST on the grounds of their social origin, they may report to the Director promptly for appropriate action. They can also lodge their complaints either by sending an email to locst@nerist.ac.in / locst@gmail.com or by registering complaints in the LO SC/ST cell for appropriate action and redressal.

Activities of SC/ST Cell

Interaction with the LO SC/ST (In-charge) of NIT Karnataka to adopt some of the welfare schemes of SC/ST students.

1. Provide information related to national and international scholarships to SC/ST students from time to time.
2. Actively involved as a committee member in the examination and finalisation of the reservation roster.
3. Actively involved as a House Allotment Committee member.
4. Actively involved as a MACP committee member.
5. Celebration of Ambedkar Jayanti in NERIST:

The SC/ST cell of NERIST celebrated the 132nd Birth Day of Bharat Ratna Dr. Bhim Rao Ambedkar and Prof. M. Muralidhar, Director NERIST was the Chief Guest. In the keynote address, he highlighted the significant role played by Dr B.R. Ambedkar in the upliftment and empowerment of underprivileged people in India. Dr Govinda Pangging, LO(SC/ST) of NERIST, delivered the welcome address and also shed light on the life sketch of Babasaheb. This program was anchored by Ms Joyshri Das, and the vote of thanks was given by Ms Mela Aihun Nora Lyngdoh. On this occasion, many faculty members, officers, principals of KV NERIST, officials and students have actively participated and paid floral tributes to Dr. B.R. Ambedkar.



Fig. 1. Celebration of Ambedkar Jayanti in NERIST.



5.10 HINDI CELL

The following members were appointed as members of the Hindi Rajbhasha Committee by the Director, vide Office order no. EST-99/2/2020 (Vol.VIII)/9515 dated 16th December 2022.

Members of Hindi Cell

Sl. No.	Name	Designation
1.	Dr. Mukesh Upadhyay, Professor (Physics)	Chairman
2.	Dr. M M Dixit, Professor (Mathematics)	Member
3.	Mr. Toko Shama, Assistant Registrar (Finance)	Member
4.	Dr. Ajit Kumar Yadav, Assistant Professor (Computer Science)	Member
5.	Shri Doge Kamduk, Assistant Registrar (Establishment)	Member Secretary

The Hindi cell of the institute began functioning from the year 2008 under the headship of Mr. Ratan Singh as Hindi Cell In-charge. The cell takes its accountability in preparing the annual report of the Institute in the Hindi language as per the provisions laid down in Article 343, Constitution of India 1950. The aforementioned Article of the Indian constitution declares Hindi in Devanagari Script as one of the official language along with English language. The cell had earlier conducted certificate courses, such as Prabodh and Praveen, for employees to promote Hindi Vikas in the Institution. Annual events like Hindi Pakwara, Hindi Diwas and Hindi Day are celebrated annually in the institution, organised by the Hindi Cell.

Programs conducted and attended in the financial year

The following programs/workshops were conducted to promote and accentuate the significance of the Hindi language.

Sl. No.	Program/Workshop	Timeline	Place
1	All India Official Language Conference	14-15, September, 2024	Delhi
2	North and North East Regional Official Language Conference	14-30 th September, 2024	NERIST, Nirjuli
3	Hindi Day and Hindi Fortnight	05.March, 2025	Guwahati, Assam
4	Official Language Inspection in Educational Institutions, University 2024-2025.	02.January, 2025	NERIST, Nirjuli



SECTION - 6

MANPOWER

6.1 Teaching (Faculty)

Department wise existing break-up of faculty as on 31.03.2025

1	Forestry	13
2	Agriculture Engineering	14
3	Civil Engineering	16
4	Computer Science & Engineering	14
5	Electrical Engineering	17
6	Electronics & Communication Engineering	15
7	Mechanical Engineering	19
8	Chemistry	10
9	Humanities & Social Sciences	07
10	Mathematics	10
11	Physics	11
12	Centre for Management Studies	03

Total - 149

6.2 Non-Teaching (Officers and staff)

Break-up of existing Officers, Technical, Ministerial and Group -C staff in position as on 31.03.2025 is given below:

(a) Officers

i	Group 'A'	11
ii	Group 'B'	05
Total		16

(b) Technical/vocational staff (Non-Teaching)

i	Group 'A'	03
ii	Group 'B'	12
iii	Group 'C'	19
Total		34

(c) Ministerial Staff

i	Group 'C'	35
Total		35

(d) Non Ministerial Staff Group – C

i	Lab Attendants/Helpers	23
ii	Security Guard	04
iii	Malis, Labourers & Sweepers	20
iv	Peons	28
v	Cook & Cook Helpers	46
Total		121

Grand Total - 355

SECTION – 7

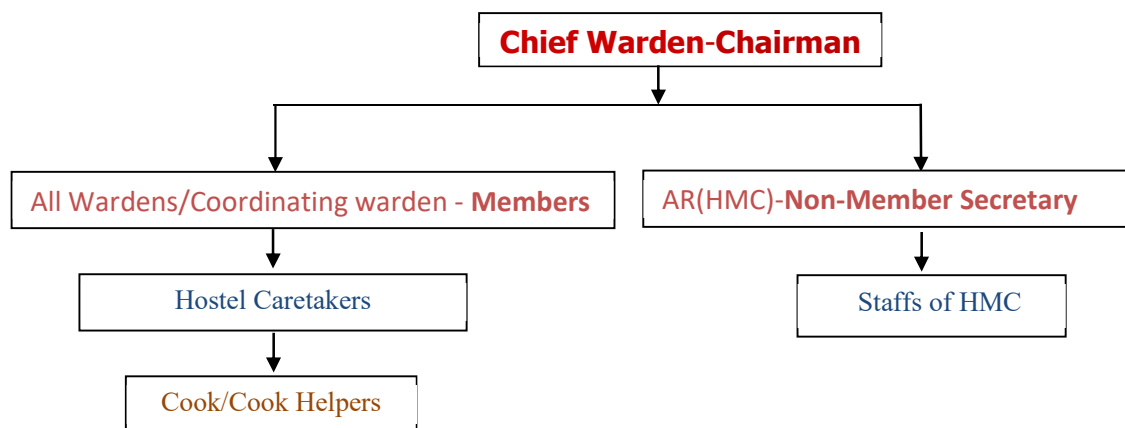
CAMPUS LIFE AN EXTRA CURRICULAR ACTIVITIES

7.1 HOSTEL MANAGEMENT COUNCIL (HMC)

7.1.1 A brief profile of the Section: Hostel Management Council.

NERIST is envisaged to be a fully residential technical Institute, and the Institute was declared to be a deemed-to-be-university by the Ministry of Education (the then Ministry of Human Resource Development), Government of India, on 31st May 2005. There are Halls of Residence under section 26(a) of NERIST MoA, 2005, under which there are various hostels, namely Hostel Tirap, Hostel-Pare, Hostel-Dibang, Hostel-Panyor, Hostel-Kurung Paniu, Hostel-Kameng, Hostel-Lohit, Hostel-Siang, Hostel-Subansiri and Hostel Brahmaputra, respectively. Students (both boys and girls) are mandatorily required to stay in the Hostels within the Campus. For the proper maintenance of discipline among students and also for the proper maintenance of the condition of the Residence and Health of students of the institute, Hostel Management Council (HMC) has been established under section 26(h) and (j) of NERIST MoA, 2005. The Hostel Management Council is an autonomous body of the institute has a varied range of powers and functions, which includes accommodation of students in hostels, Mess Facilities, cooking staffs management, accounting of students' mess fees deposit and expenditure, implementation of hostels Rules for students and enforcement of Conduct and Discipline among the students in accordance with the Academic bye-laws of the Institute. The Hostel Management Council creates and develops an integrated personality development amongst the students and enables the students to receive training in cooperative living and continuous communication with fellow students and teachers in a disciplined manner, thereby producing a good human being. As of today, there are 10 (ten) hostels as mentioned above, out of which 8 (eight) hostels are for boys and 2 (two) hostels, namely hostel-Siang and hostel Subansiri, are for girl students of the institute. Among the boys' hostels, Hostel-Kurung Panyor and Hostel Brahmaputra are meant for Post Graduate students (M.Tech./M.Sc./MBA) and PhD students, respectively, while for the girls' students, Hostel Subansiri is meant for Post Graduate and PhD students. Allotment of hostel rooms is on a sharing accommodation basis. In no case is single accommodation allotted to the students.

7.1.2 Organisational Structure of Hostel Management Council (HMC)





7.1.3 STANDING MEMBERS OF HOSTEL MANAGEMENT COUNCIL

Presently, Prof. Radak Blange, Associate Professor in the Department of Electrical Engineering, is the Chief Warden cum Chairman of the Hostel Management Council. Besides the chairman, there are ten Wardens cum Members of the council and sizable numbers of HMC officials, which are provided in table-1 and table-2 respectively

Table -1: Hostel Wardens cum HMC Members

Sl.No.	Name of Hostels	HMC Members
1.	Warden-TIRAP	Dr. C. P. Pandey
2	Warden-PARE	Dr. Yadaiah Nirsanametla
3	Warden-DIBANG	Dr.A Murugan
4	Warden-PANYOR	Dr. Ajit Kr. Singh Yadav
5	Warden-KAMENG	Dr. K. Borah
6	Warden-LOHIT	Dr. Tage Tapang
7	Warden-SIANG	Dr. Piyali Das
8	Warden-KURUNG-PANIU	Dr. M. Upadhaya(also Coordinating warden)
9	Warden- SUBANSIRI	Ms Y.Vidyalaxmi Devi
10	Warden-BRAHMAPUTRA	Dr. Ashish Paul

Table -2: Officials/staff of Hostel Management Council

S.No	Official/staffs	Post	Posted	Status
1	Assistant Registrar	1	Nil	Vacancy:1
2	Section Officer	1	1	
3	Assistant	1	1	
4	UDC	1	1	
5	Caretakers	10	4	6 vacancy
5	Dak Runner/Peon	2	2	
6	cook	13	13	
7	Cook Helper	39	39	

7.1.4 Total Strength of students against the existing capacity of hostels during 2024-2025

Presently, the total strength of the students staying in the hostels against the existing capacity of hostels during 2023-2024 is 2322. The breakup against each hostel is provided in Table 3:

Table -3: Total Strength of students against the existing capacity of hostels during 2024-2025

S.No	Hostel	Strength/capacity
1	Tirap	108/124
2	Pare	119/124
3	Dibang	123/124
4	Panyor	122/124
5	Kameng	258/260
6	Lohit	248/260
7	Siang(Girls)	269/269
8	Siang(extended Girls))	33/34
9	Kurung-Paniu(PG Boys)	168/259
10	Subansiri(PG Girls)	288/291
11	Subansiri(extended)	234/250
12	Brahmaputra	352/416
	Total Strength	2322/2535



7.1.5 Ragging is Banned in the Institute

- Ragging is Banned in the Institute. Ragging inside or outside the campus is viewed as a serious offence and anyone indulging in ragging is liable to be summarily expelled.
- In light of Ragging being banned, in compliance with the judgment of Hon'ble Supreme of Civil Appeal 887 of 9th May,2009, the institute every year, constitutes the following
- Anti-Ragging squad, Anti-Ragging Counselling Committee for counselling the students on curbing the menace of Ragging.
- The squad is constituted to build confidence in the minds of new entrants/freshers and also to make them acquainted with the Institute's systems. It is circulated to all hostel authorities.
- The institute also constituted the Anti-Ragging Flying squad team and an Institute's Anti-ragging committee.

7.1.6 Highlights of Activities of HMC

- One-day workshop/Orientation/introduction Programme on National Anti-Ragging Day on 12th August 2024, with the theme: “ SAY NO TO RAGGING AND COMPLETE BAN ON RAGGING IN INSTITUTE” organised by HMC under the aegis of ANTI-RAGGING CELL, NERIST
- Celebrated the National Anti-Ragging week by conducting workshops, essay writing completion, painting, videos and documentary movies, w.e.f., 12th to 18th August,2024.
- Like previous years, the Anti-Ragging Squad team thoroughly checked or visited hostels between 8 p.m. and 12 a.m. for four weeks after new students' admission to build confidence in their minds. The anti-ragging squad was constantly monitored by the Anti-Ragging Flying Squad and the Institute Level Anti-Ragging Committee to contain ragging as per UGC guidelines. So far, the case of Ragging in the institute is NIL.
- Independence and Republic Days are celebrated in all Hostels by the respective Wardens/Chief Wardens (Hostel) hoisting the National Flag in front of the respective Hostel Blocks.
- The hostel Boarders celebrated Block Day separately in each Hostel Block, and the Director/Dean/Registrar/Chief Warden/Hostel Wardens and other Faculty members were invited to the said function.
- The ERP module for the hostels has been created for the smooth regulation of online mess advance fees for the compilation of details of the students and respective rooms/furniture, etc, while doing their registration. Accordingly, email addresses for all caretakers have been generated in the name and style of careHostel@nerist.ac.in, e.g email ID for hostel block-A is careA@nerist.ac.in. The overall status of the Hostel ERP module is already implemented and is operational.

7.1.7 Photo galleries of the various hostels of the institute.



Hostel SIANG(Girls)



Hostel KURUNG PANIU



Hostel Subansiri(Girls)



Hostel :BRAHMAPUTRA





7.1.8 Acute Shortage of Caretakers:

Out of 10(Ten) Hostels, only 6(six) caretakers exist. There is no caretakers in the hostels namely Pare, Dibang, Kameng and Kurung-Paniu and these hostels are temporarily looked after by the existing caretakers of others hostels in addition to their own duty.

7.1.9 Attention and area of concerns to be considered by the competent authority.

1. For the smooth running of the hostels and for the students' interest, immediate posting of **4(four) Caretakers** for the hostels is requested.
2. One AR(HMC) and one office assistant may also be posted, as the HMC is the largest section in the institute.

7.2. NATIONAL CADET CORPS (NCC)

NERIST is having two NCC wings one is SD (Boys), which is fully funded by Non-plan of NERIST, and another one is SW (Girls), which is centrally funded by Tezpur NCC unit directly. For the academic year 2024-25 total students (SD) enrolled (out of 160) and SW (Out of 52) is given below:

Cadets Enrolled	SD	SW
1 st Year	74	22
2 nd year	20	09
3 rd Year	66	21
Total	160	52

Manpower status

	Present	Requirement	Deficiency
CTO	02	02	NIL
Supporting staff	01	04	03

Infrastructure

	Present	Requirement	Deficiency
Office	01	01	NIL
Store room (Big)	01(Small)	02	01

STATUS REPORT REGARDING ACTIVITIES

1. Republic Day (26 January 2024)
2. Training program (12 March 2024)
3. Bijay Nair Meet Up (April 2024)
4. International Yoga Day (21 June 2024)
5. Independence Day (15 August 2024)
6. Har Ghar Tiranga Campaign (August 2024)
7. National Unity Day (31 October 2024)
8. NCC Day (24 November 2024)





Camps Attended by the NCC cadets: Total 04 camp

1. Combined Annual Training Camp (CATC) 38 NERIST Camp (June 2024)
2. Combined Annual Training Camp (CATC) 58 NERIST Camp (July 2024)
3. Ek Bharat Srestha Bharat Camp (EBSB) Delhi Camp (November 2024)
4. Ek Bharat Srestha Bharat Camp (EBSB) Agartala Camp (December 2024)

HIGHLIGHTS:

'B' Certificate Exam Appeared - 21 SD+ 22 SW Cadets

'C' Certificate Exam Appeared - 16 SD+ 11 SW Cadets

Any other information

Mr. Shivam Yadav, AR21SDA100264 got selected in Indian Army Agniveer in year 2024.

CTOs OF NERIST UNIT: Dr. Meera Yadav, Assoc. Prof. (CH) - SW CTO

Mr. Aswini Kumar Patra, Asst. Prof. (CSE) - SD CTO



7.3 NATIONAL SERVICE SCHEME (NSS)

Volunteer Enrolment	:	1088 (Male: 710, Female: 378)
Sanctioned Volunteer Strength	:	600
Program Officers	:	16, including the Program Coordinator

Activity List

1. The North East NSS festival was held at NERIST from 1 April to 5 April 2024. Participants came from 8 NE states.
2. Prominent lawyers gave a talk on the new criminal laws on 14 April 2024. More than 250 NERIST students attended the program.
3. A cleaning drive of the residential Area of the NERIST Campus was organised on 4th May 2024 from 07.00 AM to 09.00 AM. Approximately 175 volunteers participated.
4. An informative session on Diet and Nutrition was organized on 18th May, 2024 with support from NERIST Health Unit. #8 students attended the program.
5. Nomination and appointment of Group Leaders for 2024-25 were conducted on 20th August 2024.
6. NSS volunteers and POs participated in a massive plantation drive on 2nd October, 2024. An estimated 1000 plants were rooted.
7. NSS volunteers participated in Viksit Bharat Quiz during December 2024. The activity was online.
8. 7 NSS volunteers participated and donated blood at the State Legislative Assembly, on 16th March, 2025.

The NSS Cell managed need-based blood donations on 18th May, 30th May, 22nd August, 6th June, 2024 and 31st January 2025, for the needy faculty and staff members of NERIST. The donors were issued appreciation certificates from NSS.



7.4. INSTITUTE ENGINEER OFFICE

7.4.1 A Brief Profile

Executive Engineer (Civil) office is one of the important offices in NERIST, which plays a pivotal role in the overall development and maintenance of the entire Institute's infrastructural facilities under the overall supervision of E.E. (Civil).

Under this Executive Engineer Office, Civil Maintenance and Sanitation wings are in operation and working to develop the Institute's Infrastructural facilities. Civil Maintenance wings carry out day-to-day civil maintenance, repairs of buildings in the campus, including hostels, offices, residential and non-residential, including water supply & sanitation. Further, Executive Engineers of the Civil Engineering Cell monitor all works executed by the various working agencies under the guidance of the Planning and Monitoring Committee. The Sanitation wing maintains a good hygienic atmosphere by keeping the campus neat and clean.

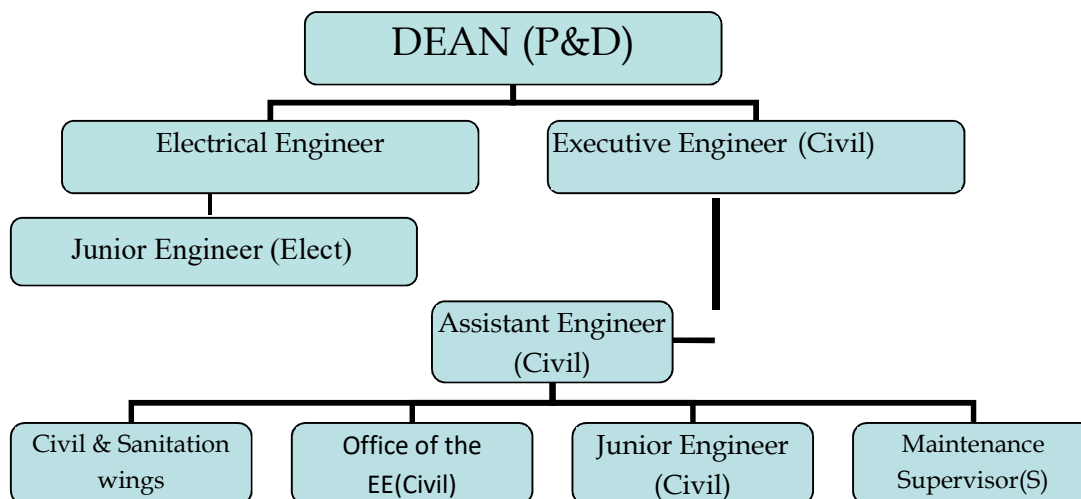
Executive Engineer (Civil) to supervise all the major & minor works under their control.

To vigil the works, a Planning & Monitoring Committee was constituted in September 2015 for identifying the developmental works to be taken up by the Institute on priority and to monitor the progress & quality of works in the Institute.

7.4.2 Status report of the ongoing construction activities in the campus:

Sl. No.	Name of Work	Estimate cost in Lakh	Amount Release(in Lakh)	Agency	Physical Progress	Remarks
1	Construction of Permanent Administrative Building	3604.00	34,61	NPCC Ltd, Guwahati	100%	Completed & taken over
2	Construction of 500 Capacity G+3 Girls Hostel	3757	16,00	APPWD	75%	Work in progress
3	Construction of Water Treatment Plant (WTP)	849.60	848	M/s North East Engineering & Construction Agency	100%	Completed
4	Construction of 50 bedded Student Hostel at NERIST	467.00	294	M/s Roshan Construction Company	80%	Work in progress
5	Construction of Permanent Health Unit Building	660.00	3,00	M/s Mercy Engineering	60%	Work in Progress
6	Construction of Multipurpose Indoor Hall	1578.00	7,90	M/s North East Engineering & Construction Agency	60%	Work in Progress
7	Construction of 1000 Capacity Boys Hostel (SH: unit 500 Capacity Building at NERIST)	8500.00	600	RWD, Govt. of A.P.	55%	Work in Progress
8	Construction of Examination & Seminar Hall at NERIST	1153	300	M/s Rinya Yangfo Construction	60%	Work in Progress

The Present organization setup



Utilising the above-said manpower, the respective wings of the institute's engineering cell carried out routine and regular maintenance works departmentally on the whole campus.

7.4.3 Future Works Planned to be taken up

In future Engineering cell of the institute has planned to take up the following works subject to the availability of fund from the Ministry of Education, Govt. of India and as per priority fixed by the Institute authority.

Sl.No.	Name of Work	Estimated cost in Lakh	Remarks
1.	Construction of Research & Project Building	10851.88	
2.	Construction of Permanent K.V. Building	4054.00	
3.	Construction of Class Rooms	1812.00	
4.	Construction of 1000 Capacity Boys Hostel (SH: 500 Capacity Building at NERIST Unit-II)	50,00.00	
5.	Construction of RCC Retaining Wall along the Nirjuli River	590.00	
6.	Fly over Bridge over NH-415	60.00	
7.	C/o Science Block at South Campus	150,00.00	
8.	C/o Faculty Building for Civil Engineering Department	1050.00	
9.	Providing & laying DI Pipe	500.00	



7.5. EDUCATIONAL TECHNOLOGY

7.5.1 A Brief Profile of ET Cell

The ET cell has been established as a project sponsored by the MoE, Govt. of India, to increase the effectiveness of the teaching-learning process with the help of modern audio-visual equipment and Information and Communication Technology (ICT). The cell mainly manages and maintains the Internet Connectivity to the Institute, Local Area Network (LAN), Wi-Fi LAN, Server Firm, and ICT Services. The Cell consists of the Institute data centre, seminar room, and board room equipped with state-of-the-art audio-visual equipment. These are used for Seminars, Conferences, Workshops and special lectures by faculty members and professionals from institutions and industries. ET Cell also supports/manages different academic activities online, i.e., conducting online classes, online PhD defences, video conferencing, interviews for student recruitments, and computerised recruitments for different government departments and organisations.

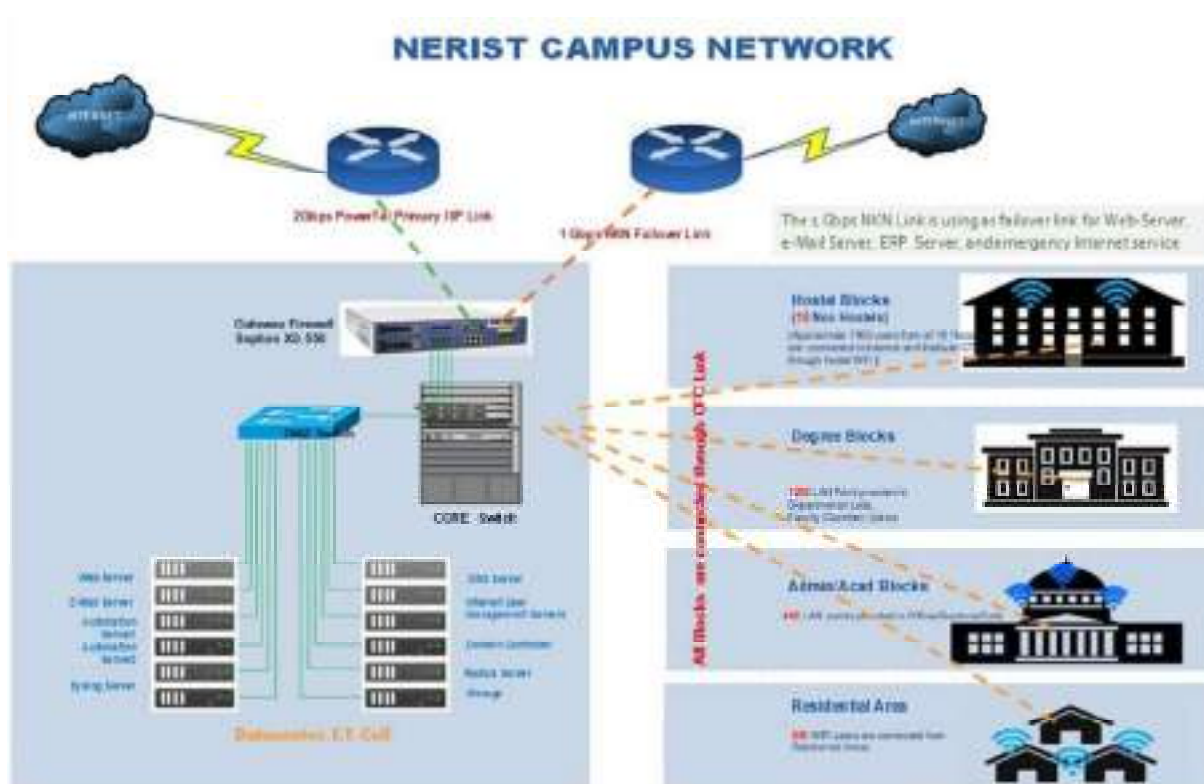
Officials of ET Cell:

Sl. No	Name	Designation
1	Prof. Moirangthem Marjit Singh, Department of Computer Science & Engineering	In-charge ET Cell
2	Mr. Yogendra Mohan, Assistant Professor, Department of Computer Science & Engineering	Dy. In-charge ET Cell
3	Dewan Rashidul Alam	Network Administrator
4	Sajikumar P.	Senior Instructor
5	Papukumar Mahato	Technician
6	Toko Radhe	Skilled Worker
7	Manoj Thapa	Peon

7.5.2 The major ICT Services facilitated by ET Cell are as follows:

1. Managing/maintaining the 2Gbps Internet Connectivity to the Institute provided by PowerTel ISP(Internet Service Provider) and a 1Gbps failover Internet Link provided by NKN.
2. Provides and maintain LAN Connectivity to all the 12 Academic Departments/Centres, 10 Hostels, Offices, and the schools in the campus.
3. Wifi LAN Connectivity to Hostels and Residential Areas.
4. E-mail Services to Students, Research Scholars, Faculties and Staff.
5. Locally hosting and maintaining the Institute Web Server.
6. ET Cell also houses several high-end Servers that facilitate a number of Services, such as Hyper-V Virtual Platform, DNS, DHCP, Active Directory, RADIUS, and so forth.
7. Development, Management, and Maintenances of CORE Hardware Infrastructure of Institute's Datacentre as well as IT infrastructures deployed in whole Institute Campus.
8. Provides support for online classes to all students and faculty.
9. Provides support for any issue related to Internet access of all users of the Institute.
10. Arrangement of online seminars, Video Conferencing, Online PhD Oral Defence, etc., whenever required.

7.5.3. General Network Diagram of NERIST Campus:



7.5.4. Network Devices/Services:

Network Devices			
Sl. No	Item	Quantity	Objective
1	UTM/Firewall (Sophos-XG5500)	1	To provide user-based Internet access, traffic filtering and restricting.
2	Core Switch (Cisco 6509)	1	All NERIST Campus Network Segments are Interconnected through Core Switch.
3	Distribution switch (Cisco 4503)	1	All LANs of Degree Blocks are connected to Distribution Switch.
4	Access Switch	98	All Departments/Sections/Hostels users are connected through Access Switches.
5	Wireless Controller (Ruckus SmartZone, TP Link Omada C300, Cisco)	4	Manage policies, rules and configurations of all Access Points.
6	Access Points (Ruckus ZF 7782, R610, T610, Cisco 9120AXI, TP-Link EAP245, EAP620)	273	To provide Wireless connectivity to Residential Area.
7	SAN Switch (Brocade)	1	To provide connectivity between storage and Servers over fibre channel.



Servers and Storage:			
8	Dell PowerVault R430 Rack Server	6	Using for Automation (App Server1, App Server2, DB Server, Load Balance Server) and Hyper-V node.
9	Storage Power Vault MD 3000	1	Using for Automation
10	IBM SystemX Rack Server	3	Using for Hyper-V node, Microsoft SCCM, and AD Sever.
11	IBM and HCL Tower Server	3	Using for Public DNS, Web Server, and Mail Server.

7.5.5. Status Report Regarding Activities

1. Upgraded the Ruckus WiFi Controller from the zD3000 to the latest SmartZone Controller and renewed the AMC for Access Points, enabling profile-based WiFi access.
2. Renewed the Microsoft 365 Cloud License Solution for the 2024-2025 year.
3. Upgraded the PowerTel ISP Link's bandwidth from 200 Mbps to 2 Gbps, overcoming the existing bandwidth limitations.
4. Upgraded the Internet Gateway Firewall from the XG-550 to the XGS-5500, a high-end next-generation firewall, to enhance the security of the campus network.
5. Developed a reliable and efficient website hosting environment using an open-source platform (i.e., Linux and CyberPanel).
6. Upgraded and launched the Institute's new website with the latest content management system features, integrating single sign-on and multi-factor authentication.
7. Set up LAN/WiFi for the Civil Engineering Departments Conference Room and HoD office.
8. Renewed the Cisco Switches AMC for the next three years.
9. Provided technical support for conducting various LAN-based computerised exams (e.g., CUET, FCAT, etc.).
10. Provided IT infrastructure support during the online registration, counselling, and admission processes for the NEE-2024-25/NEPGET-2024-2025 sessions.
11. Conducted One Day Awareness Programme on "Information Security & Emerging Technologies for the Senior Government Officials" dated 21.03.2025.
12. Delivered Expert Talk on "Cyber Security" at Jawahar Navodaya Vidyalaya, Papum Pare, "Under NEP, 10 Bag-less days for students", dated 30.08.2024.



7.6 GYMKHANA

7.6.1 A Brief Profile of the Section and its Activities

Non-Teaching staff:

- (i) Mr. Toko Shama, Sports Officer (Presently in charge of AR, Finance)
- (ii) Mr. Lallan Thakur, Line Marker, (Retired on 30.09.2023)
- (iii) Mr. Nirmal Chandra Biswas, Lab./Helper; Date of Joining: 24.06.1991
- (iv) Mr. Tinku Bd. Rai, Hand Receipt; Date of Joining: 17. 09. 2010

Faculty In-charges

- (i) Dr. N. Ghanashyam Singh, Asstt. Prof. (CH), Chairman
- (ii) Dr. Margaret Kathing, Assoc. Prof. (CSE), Vice Chairperson
- (iii) Dr. Piyali Das (EE), Asstt. Prof. Vice Chairperson
- (iv) Akho John Richa (ECE), Asstt. Prof. Vice Chairman

7.6.2 Faculty Clubs and In-charges

Sl. No.	Clubs Name	In-charges
1	Innovation Club	Dr. Yamen Tamut, Asstt. Professor (CE)
2	Football Club	Mr. Akho John Richa, Asstt. Professor (ECE)
3	Badminton Club	Dr. Tage Tapang, Asstt. Professor (AE)
4	Media Club	Dr. Meera Yadav, Asstt. Professor (CH)
5	Music Club	Dr. N. Loya Meitei, Asstt. Professor (ECE)
6	Gym (Fitness center)	Dr. N. G. Singh, Asstt. Professor (CH)
7	Cricket Club	Dr. N. G. Singh, Asst. Professor (CH)
8	Table Tennis Club	Dr. Govind Pangging, Assoc. Professor (FO)
9	Volley Ball Club	Dr. Kunal Borah, Asstt. Professor (PH)
10	Basket Ball Club	Dr. Akhilesh Sharma, Asstt. Professor (EE)

7.6.3 Infrastructure Facilities

Outdoor Facilities

- i. Turf Football Ground with Gallery
- ii. UG Boys Basketball Court
- iii. PG Boys Basketball Court
- iv. Girls Basketball Court
- v. Basketball Court for Brahmaputra Hostel (UG and PhD)
- vi. Cricket Ground

Indoor Facilities

- i. Indoor Badminton Court, Utility Building
- ii. Indoor Badminton Court (UG Boys Hostel Campus)
- iii. Badminton Court Brahmaputra Hostel (UG, PG and PhD)
- iv. Gymnasium for Boys (Gymkhana Building)
- v. Gymnasium for Girls (UG Girls Hostel)
- vi. Table Tennis Facilities (To all the Hostels for Boys and Girls)
- vii. Table Tennis court, Utility Building

Other Facilities

Gymkhana NERIST has opened a KARATE TEACHING CENTRE w.e.f. November 2023, with the aim of the “Surakshit Bharat” campaign, at the old Gymkhana Office, NERIST.

**7.6.4 Activities performed by Gymkhana, NERIST:**

Following are the lists of activities carried out under the banner of Gymkhana NERIST during the tenure April 2023- to March 2024:

Sl. No.	Particular of the activities	Date
1.	General Farewell	12.05.2024
2.	Anti-Ragging Week Celebration	12.08.2024 to 18.08.2024
3.	Independence Day Celebration 2024	15.08.2024
	<ul style="list-style-type: none"> • Independence Day Badminton Cup at RGU • Football match 	
4.	Karate Teaching Centre for NERIST residents (promoting Surakshit Bharat)	Nov. 2024
5.	General Fresher's Meet (GFM) 2024	10.08.2024
6.	Observed "Swachhata Pakhwada" Celebration in collaboration with NSS NERIST	01.09.2024 to 15.09.2024
7.	National Sports Week	28.08.2024 to 31.08.2024
8.	FIT India Week	15.11.2024 to 31.11.2024
9.	Inter Union Basketball Tournament, NERIST (07 Days)	14.10.2024-20.10.2024
10.	Participated a Basketball team of students at "10 th Annual Inter-collegiate Sport Festival" (SPIRIT24), IIT Guwahati	02.11.2024 to 05.11.2024
11.	RACAF-2024 (SONABYSS)(03 Days)	09.11.2024 to 11.11.2024
12.	Republic Day celebration, 2025	26.01.2025
	<ul style="list-style-type: none"> • Skit Play • Cricket and Table Tennis matches • Badminton (RGU-NERIST) 	
13.	Athletic Meet-2025 (SYNERGY)	07.02.2025 to 09.02.2025
	Tournaments	
14.	Yakar Taki Memorial Football Tournament (01 week)	April 2024
15.	Basketball Block-wise (02 weeks)	November 2025
16.	Cricket Tournament (1 month long)	January 2025
17.	Tadar Echu Memorial Football Tournament (1 month long)	February 2025
18.	Lipsman Memorial Tournament (10 days)	January 2025
19.	Table Tennis Tournament (01 week)	January 2025
20.	Badminton Tournament (03 weeks)	February 2025

7.6.5 Participation of the students in other institute programs:

Participated in Table Tennis (03 students), Basketball (12 students), Swimming (01 student) and Kho Kho (24 Boys and Girls) teams of students at "11th Annual Inter-collegiate Sport Festival (SPIRIT24), IIT Guwahati from 24th - 27th November 2024".

NERIST Karate Club:

The Karate Centre promotes the "Surakshit Bharat," especially targeting the younger generation. It is supported by an expert trainer under the Arunachal Karate Association, National Shotokan Karate Federation of India. At present, the practice venue is in the main football Ground Building.



SECTION – 8

FUND AND AUDIT

The Institute is a Central Scheme of the Ministry of Education and is fully funded by the Government of India through the MoE.

At the beginning of the financial year 2024-25, the Institute had an unspent balance of ₹.518.51 lakhs. During the year, the Institute received ₹14750.93 lakhs as grant and ₹758.04 lakhs as IRG. The unspent balance as on 31.03.2025 is ₹605.47 Lakhs, which will be adjusted towards the grant-in-aid payable during the next financial year 2025-26. Brief break up of fund received and expenditure incurred is given under:

₹ In Lakhs

Details of Accounts	HEAD			Grand Total (2+3+4)
	OH-31 (General)	OH-35 (Capital)	OH-36 (Salary)	
1	2	3	4	5
Previous Balance	2.86	2.68	512.96	518.51
Fund Received during 2024-25	4102.93	2964.00	7684.00	14750.93
IRG 2024-25	758.04	-	-	758.04
Other Receipt	76.99	232.64	-	309.63
Expenditure incurred during 2024-25	4909.02	3187.62	7635.00	15731.64
Unspent Balance as on 31/03/2025	31.80	11.71	561.96	605.47

The detailed information related to the accounts of the Institute fo the year 2024-25 and the audited accounts of the Institute is given in Annexure.





















ANNEXURE-I

MEMBER OF THE NERIST SOCIETY

1.	Lt. Gen. Kaiwalya Trivikram Parnaik His Excellency the Governor of Arunachal Pradesh, Raj Bhawan, Itanagar, Arunachal Pradesh-791111	--	Chairman
2.	Hon'ble Minister (Education) Govt. of Assam, Dispur (Assam)-788 006	--	Member
3.	Hon'ble Minister (Education) Govt. of Mizoram, Aizawl (Mizoram)-796 001	--	Member
4.	Hon'ble Minister (Higher Education) Govt. of Nagaland, Kohima (Nagaland)-797 001	--	Member
5.	Hon'ble Minister (Education) Govt. of Manipur, Imphal (Manipur)-795 001	--	Member
6.	Hon'ble Minister (Higher Education) Govt. of Tripura, Agartala (Tripura)-799 001	--	Member
7.	Hon'ble Minister (Education) Govt. of Arunachal Pradesh, Itanagar-791 111	--	Member
8.	Hon'ble Minister (Education) Govt. of Meghalaya, Shillong Meghalaya -793 001	--	Member
9.	Hon'ble Minister (Education) Govt. of Sikkim, Gangtok (Sikkim)-737 103	--	Member
10.	Chairman, BoM NERIST, Nirjuli, Arunachal Pradesh	--	Member
11.	Joint Secretary & F.A IFD, MoE, Govt. of India, New Delhi	--	Member
12.	Joint Secretary (TEL) MoE (Govt. of India), Department of Higher Education, Shastri Bhavan, 'C' Wing, New Delhi-110001	--	Member



13.	Prof. Uday S. Dixit Dept. of Mechanical Engineering, Indian Institute of Technology (IIT), Guwahati-781 039, Assam (AICTE Representative)	--	Member
14.	Dr. Nisha Mendiratta Head (CCP) & Scientist 'G', Department of Science & Technology, Ministry of Science & Technology, Technology Bhawan, New Mehrauli Road, New Delhi-110 016 (DST Representative)	--	Member
15.	Vacant due to resignation	--	Member
16.	Prof. Narendranath S Director, NERIST, Nirjuli, Arunachal Pradesh	--	Member
17.	Dr. M.K. Camder Registrar, NERIST, Nirjuli, Arunachal Pradesh	--	Non-Member Secretary

ANNEXURE-II



MEMBER OF THE NERIST BOARD OF MANAGEMENT

1.	Prof. M.S.M Rawat Former VC, HNB Garhwal Central University Shagun Villa, Mohkampur, Dehradun	--	Chairman
2.	Joint Secretary & F.A. IFD, MoE, Govt. of India Shastri Bhavan, 'C' Wing, New Delhi	--	Member
3.	Joint Secretary (TEL) Ministry of Education, Govt. of India Dept. of Higher Education Shastri Bhavan, 'C' Wing, New Delhi	--	Member
4.	Prof. S.K Nayak Vice Chancellor (i/c), Rajiv Gandhi University Rono Hills, Doimukh, Arunachal Pradesh (Nominee of Society for NERIST)	--	Member
5.	Commissioner / Secretary Higher & Technical Education New Shastri Complex, Room No. 402 Govt. of Mizoram, Khatla, Aizawl	--	Member
6.	Commissioner Higher & Technical Education Dept. Govt. of Manipur, Imphal	--	Member
7.	Principal Secretary Higher & Technical Education Govt. of Sikkim, Gangtok	--	Member
8.	Commissioner / Secretary Higher & Technical Education Govt. of Meghalaya, Shillong	--	Member
9.	Commissioner / Secretary Higher & Technical Education Govt. of Nagaland, Kohima	--	Member
10.	Principal Secretary Higher & Technical Education Govt. of Tripura, Agartala	--	Member
11.	Principal Secretary Higher & Technical Education Govt. of Assam, CM Block 1 st Floor, Dispur, Guwahati, Assam	--	Member



12.	Commissioner Higher & Technical Education Govt. of Arunachal Pradesh, Itanagar	--	Member
13.	Prof. Samarendra Dandapat Department of EEE IIT, Guwahati, Assam (AICTE Nominee)	--	Member
14.	Dr. Leishangthem Jeecelee Divisional Forest Officer Thoubal Forest Division, Thoubal Athokpam, Thoubal, Manipur Forest Department Govt. of Manipur (Alumni Nominee)	--	Member
15.	Prof. S. Gao Dean (Academic) NERIST, Nirjuli	--	Member
16.	Prof. M. Chandrasekaran Dean (Administration) NERIST, Nirjuli	--	Member
17.	Prof. S. Mishra Dean (Planning & Development) NERIST, Nirjuli	--	Member
18.	Prof. P. Parida Representative of Professors NERIST, Nirjuli		Member
19.	Dr. S.J. Borah Representative of Associate Professors NERIST, Nirjuli	--	Member
20.	Ms. Y. Bidyalaxmi Devi Representative of Assistant Professors NERIST, Nirjuli	--	Member
21.	Prof. Narendranath S Director, NERIST	--	Member
22.	Dr. M.K. Camder Registrar, NERIST	--	Ex-Officio Member Secretary



ANNEXURE - III

MEMBERS OF NERIST FINANCE COMMITTEE

1	Prof. M.S.M Rawat Former VC, HNB Garhwal Central University, Shagun Villa, Mohkampur, Dehradun – 248 005	Chairman
2	Joint Secretary & FA, IFD, MOE, Govt. of India, Deptt. of Higher Education, Shastri Bhawan, C, Wing, New Delhi	Member
3	Joint Secretary (CFTIs) MOE, Govt of India Deptt of Higher Education, Shastri Bhawan, 'C' Wing, New Delhi	Member
4	Vice Chancellor, Rajiv Gandhi University, Rono Hill, Doimukh, Arunachal Pradesh Nominee of HE the Governor of AP & President of NERIST Society, Itanagar, Arunachal Pradesh	Member
5	Mr. Yab Basu Camdir Sr. Finance & Account Officer, O/o, the Director, TRIHMS, Govt. of A.P. Naharlagun – 791 110	Member
6	Prof. S. Mishra, Dean (P&D) NERIST-791109.	Member
7	Director, NERIST	Member
8	Registrar, NERIST	Member
9	Assistant Registrar (Fin)	Ex-Officio Non- Member Secretary



ANNEXURE – IV

MEMBERS OF ACADEMIC COUNCIL

1.	Director, NERIST	Chairman
2.	Dean (Academic)	Member
3.	Dean (Planning & Development)	Member
4.	Dean (Administration)	Member
5.	Dean (Students Affairs)	Member
6.	Prof. K. N. Singh, Dean Science, Deptt. of Chemistry, BHU, Varanasi.	Member
7.	Prof. Neetu Singh, Prof. & Head, Bio Medical Engg., IIT, Hauz Khash, New Delhi-110016.	Member
8.	Prof. R. D. Kaushik, A304, Ansal Anand Dham, Haridwar Rishikesh Road, Near Godwin Hotel, Haripurkalan-249205, Rishikesh, Dehradun.	Member
9.	Prof. Sisir Kumar Nayak, Deptt. of EEE, IIT Guwahati.	Member
10.	Prof. Promod Kumar Patowari Deptt. Mechanical, NIT, Silchar	Member
11.	Prof. Geetika Borah, Dean, Faculty of Science & Engg. Deptt. of Chemistry, Dibrugarh University.	Member
12.	Er. Tapi Tai, Supdt. Engg. Deptt. of Power, Govt. of Arunachal Pradesh, Itanagar.	Member
13.	Prof. P.K. Tripathy, Deptt. of Chemistry	Member
14.	Prof. Binay Singh, Deptt. of Forestry	Member
15.	Prof. P. Parida, Deptt. of HSS	Member
16.	Prof. K.N. Dewangan, Deptt. of Agri. Engg.	Member
17.	Prof. C.L. Sharma, Deptt. of Forestry	Member
18.	Prof. R.K. Prasad, Deptt. of Civil Engg.	Member
19.	Prof. A. Giri, Deptt. of Mechanical Engg.	Member
20.	Prof. N. Deb, Deptt. of Chemistry	Member
21.	Prof. P.P.Dabral, Deptt. of Agri. Engg.	Member
22.	Prof. O.P. Roy, Deptt. of Electrical Engg	Member
23.	Prof. S. Gao, Deptt. of Electrical Engg	Member
24.	Prof. R.K. Mehta, Deptt. of Electrical Engg.	Member
25.	Prof. S.K. Shrivastava, Deptt. of Agri. Engg	Member
26.	Prof. T. Karlo, Deptt. of Physics	Member
27.	Prof. (Mrs.) M. B. Sharma, Deptt. of Forestry	Member
28.	Prof. M. Chandrasekaran, Deptt. of Mech. Engg.	Member
29.	Prof. K. Shrivastava, Deptt. of Forestry	Member
30.	Prof. S.K. Bhagat, Deptt. of Electrical Engg	Member
31.	Prof. S. Mahto, Deptt. of Mech. Engg.	Member
32.	Prof. S. Baishya, Deptt. of Civil Engg	Member
33.	Prof. S. Mishra, Deptt. of Civil Engg	Member
34.	Prof. A.K. Singh, Deptt. of Electrical Engg	Member
35.	Prof. B.K. Singh, Deptt. of Mathematics	Member
36.	Prof.(Mrs) N. Marchang, Deptt. of CSE	Member
37.	Prof. S. Samanta, Deptt. of ME	Member
38.	Prof. P. R. Gajurel, Deptt. of FO	Member



39.	Prof. Awadhesh Kumar, Deptt. of FO	Member
40.	Prof. S. S. Gautam, Deptt. of ME	Member
41.	Prof. Ajay Bharti, Deptt. of CE	Member
42.	Prof. (Ms) Aditi Bhadra, Deptt. of AE	Member
43.	Prof. A. Bandyopadhyay, Deptt. of AE	Member
44.	Prof. Raju Barthakur, Deptt. of HSS	Member
45.	Prof. Sandeep Singh, Deptt. of ME	Member
46.	Prof. M. M. Dixit, Deptt. of MA	Member
47.	Prof. Rajesh Kumar, Deptt. of ECE & CoE	Member
48.	Prof. Tripurari Sharan, Deptt. of ECE	Member
49.	Prof. (Mrs) Joyatri Bora, Deptt. of ECE	Member
50.	Prof. Mukesh Upadhyay, Deptt. of PH	Member
51.	Prof. Rajesh Kumar Yadav, Deptt. of PH	Member
52.	Prof. Adikanda Parida, Deptt. of EE	Member
53.	Prof. Pankaj Kr. Pandey, Deptt. of AE	Member
54.	Prof. Pranab Kr. Dutta, Deptt. of ECE	Member
55.	Prof. Thaneswar Patel, Deptt. of AE	Member
56.	Prof. M. Marjit Singh, Deptt. of CSE	Member
57.	Prof. Madhusudhan Misra, Deptt. of ECE	Member
58.	Prof. (Mrs) Dipika Devi, Deptt. of CE	Member
59.	Prof. Bijoylaxmi Sarmah, Deptt. of CMS	Member
60.	HoD (AE)	Member
61.	HoD (CE)	Member
62.	HoD (CSE)	Member
63.	HoD (ECE)	Member
64.	HoD (EE)	Member
65.	HoD (ME)	Member
66.	HoD (CH)	Member
67.	HoD (MA)	Member
68.	HoD (FO)	Member
69.	HoD (PH)	Member
70.	HoD (HSS)	Member
71.	HoC (CMS)	Member
72.	Shri T.V.P.Singh, Associate Prof. Deptt. of EE	Member
73.	Dr. K.K. Mondal, Associate Prof. Deptt. of ME	Member
74.	Dr. Govinda Pangging, Associate Prof. Deptt. FO	Member
75.	Dr. N. Ghanashyam Singh, Assistant Prof. Deptt. of CH	Member
76.	Dr. N.L.Meitei, Assistant Prof. EE	Member
77.	Mr. Rusni Kima Mangang, Assistant Prof. ECE	Member
78.	Controller of Examinations	Invitee
79.	Registrar	Non-Member Secy.



ANNEXURE - V

MEMBER OF BUILDING AND WORKS COMMITTEE

1.	Prof. Narendranath S. Director, NERIST Itanagar, Arunachal Pradesh	--	Chairman
2.	Dean (Planning & Development) NERIST Itanagar, Arunachal Pradesh	--	Member
3.	Secretary (Higher Education) Govt. of Arunachal Pradesh Itanagar	--	Member
4.	Chief Engineer (PWD) Western Zone, Itanagar Arunachal Pradesh	--	Member
5.	Director (T) Department of Higher Education MHRD, Govt. of India, Shastri Bhavan, 'C' Wing, New Delhi – 110 015.	--	Member
6.	Senior Architect, PWD, Govt. of Arunachal Pradesh Itanagar, Arunachal Pradesh	--	Member
7.	Registrar, NERIST Itanagar, Arunachal Pradesh	--	Member
8.	Deputy Registrar (Finance) NERIST Itanagar, Arunachal Pradesh	--	Member
9.	Head of the Department (Civil Engg.) NERIST. Itanagar, Arunachal Pradesh	--	Member
10.	Head of the Department (Electrical Engg.) NERIST. Itanagar, Arunachal Pradesh	--	Member
11.	Electrical Engineer NERIST Itanagar, Arunachal Pradesh	--	Member
12.	Executive Engineer (Civil) NERIST Itanagar, Arunachal Pradesh	--	Member-Secretary



ANNEXURE - VI

INSTITUTE ADMINISTRATION

1. Director	:	Prof. Narendranath S.
2. Deans:		
Administration	:	Prof. M. Chandrasekaran
Academic	:	Prof. Sarsing Gao
Student's Affairs	:	Prof. P. Gajurel
Planning & Development	:	Prof. S. Mishra
Research & Development	:	Prof. Madhubala Sharma
Alumni Affairs	:	Prof. Tado Karlo
3. Group – 'A' Officers:		
Registrar	:	Dr. M.K. Camder
Assistant Registrars:		
Finance	:	Shri Toko Shama
Academic	:	Dr. K.K. Rajesh
Examination Cell	:	Shri Gautam Kumar Roy
Establishment & Administration	:	Shri Doge Kamduk
Medical Officers:	:	Dr. P. Camdir Tok
	:	Dr. Sushmita P. Taggu
	:	Dr. Gyamar Inja (on study leave)
Executive Engineer (Civil)	:	Er. Nabam Titu
Librarian	:	Dr. Janu Komut
Security Officer	:	Shri Toko Shama (in-charge)
Technical Officer	:	Shri Suren Tana Tara
Assistant Workshop Superintendent:		Shri Harshendra Misra
Net Work Administrator	:	Shri Dewan Rasidul Alam
4. Group – 'B' Officers		
Section Officers:		
Hostel Management Council	:	Smti. Pratibha Saikia
Finance	:	Smti. Anjana Adhikari
5. Chief Vigilance Officer	:	Prof. K.N. Dewangan
6. Estate Officer	:	Dr. Nabam Teyi
7. Liaison Officer (SC/ST)	:	Dr. Maryom Dabi
8. Head of the Departments:		
Agriculture Engineering	:	Prof. Aditi Bhadra
Civil Engineering	:	Prof. Dipika Devi
Computer Science & Engineering	:	Dr. S.J. Bora
Electrical Engineering	:	Shri Radak Blange
Electronics & Communication Engineering:		Prof. Joyatri Bora Hazarika
Mechanical Engineering	:	Prof. S. Samanta



Forestry	:	Prof. Awadesh Kumar
Physics	:	Prof. Mukesh Upadhyay
Chemistry	:	Dr. Meera Yadav
Mathematics	:	Prof. M.M. Dixit
Humanities & Social Sciences	:	Prof. Raju Barthakur
Centre for Management Studies	:	Dr. Shibabrata Choudhury

9. Chairmen:

Students Grievance Redressal Committee (SGRC):	Prof. Narendranath S.
Security	: Prof. Narendranath S.
NEE Committee	: Prof. R.K. Prasad
Hostel Management Council	: Shri Radak Blange
Gymkhana	: Dr. N. Ghanashyam Singh
Telecom	: Prof. P.K. Dutta
Transport	: Dr. K.K. Mandal
Library	: Prof. Rajesh Kumar Yadav
HAC	: Prof. Joyatri Bora Hazarika
CTTC	: Prof. Thaneswar Patel

10. Training & Placement Cell in-charge

: Prof. S.S. Gautam

11. ET Cell in-charge

: Prof. M. Marjit Singh

12. Co-ordinators:

R&D	:	Prof. Aditi Bhadra
NSS	:	Prof. Sandeep Singh
CEP	:	Prof. Thaneswar Patel
CRF	:	Dr. A. Murugan
ACCF	:	Prof. M. Marjit Singh
AICTE	:	Prof. S. Misra
NBA	:	Prof. Arnab Bandyopadhyay

13. Controller of Examination

: Prof. Rajesh Kumar

14. Non Member Secretary, NEE Committee

: Dr. K.K. Rajesh

15. NCC Officer

: Shri Aswini Kumar Patra



ANNEXURE – VII

MEMBERS OF LIBRARY COMMITTEE

1. Dr. Rajesh Kumar Yadav, Prof. ECE - Chairman
2. Dr. Awadesh Kumar, Prof. FO - Member
3. Dr. Raju Barthakur, Prof. HSS - Member
4. Dr. K.K. Mandal, Assoc. Prof. ME - Member
5. Dr. P.K. Pandey, Assoc. Prof., AE - Member
6. Dr. P.K. Dutta, Assoc. Prof. ECE - Member
7. Dr.. M. Marjit Singh, Assoc. Prof. CSE - Member
8. Dr. M.D. Singh, Assoc. Prof. EE - Member
9. Dr. K. Saharia, Asstt. Prof., PH - Member
10. Dr. K.James Singh, Asstt. Prof. CE - Member
11. Dr. S.L. Bharati, Asstt. Prof. CH - Member
12. Dr.. Manmohan Mall, Asstt. Prof. CMS - Member
13. Dr. C.P. Pandey, Asstt. Prof., MA - Member
14. Shri D.M. Sahu, i/c. Librarian,
Central Library - Member Secretary



ANNEXURE - VIII

MEMBERS OF NERIST ENTANCE EXAMINATION COMMITTEE

- | | | |
|--|---|------------------|
| 1. Dr. R.K. Prasad
Professor, CE | - | Chairman |
| 2. Dr. Rajesh Kumar Yadav
Associate Professor, PH | - | Member |
| 3. Dr. Manmohan Mall
Assistant Professor, CMS | - | Member |
| 4. Dr. Yogendra Mohan
Assistant Professor, CSE | - | Member |
| 5. Mr. Arun Kumar Choudhary
Assistant Professor, AE | - | Member |
| 6. Dr. K.K. Rajesh
Assistant Registrar (Acad) | - | Member Secretary |



ANNEXURE – IX

**MEMBERS OF NERIST POST GRADUATE ENTRANCE TEST (NEPGET)
COMMITTEE**

- | | | |
|--|---|------------------|
| 1. Prof. (Mrs.) N. Marchang, (CSE) | - | Chairperson |
| 2. Dr. Dibyendu Pal, Assoc. Prof. (CE) | - | Member |
| 3. Dr. Piyali Das, Asstt. Prof.(EE) | - | Member |
| 4. Dr. Ashish Paul, Asstt. Prof.(FO) | - | Member |
| 5. Dr. Kunal Borah, Asstt. Prof. (PH) | - | Member |
| 6. Dr. K.K. Rajesh, AR(Acad) | - | Member Secretary |



ANNEXURE – X

MEMBERS OF HOSTEL MANAGEMENT COUNCIL

Sl.No.	Hostel Management Council	
1	Chief Warden	Chairman
2	Warden-TIRAP	Member
3	Warden-PARE	Member
4	Warden-DIBANG	Member
5	Warden-PANYOR	Member
6	Warden-KAMENG	Member
7	Warden-LOHIT	Member
8	Warden-SIANG	Member
9	Warden-KURUNG-PANIU	Member
10	Warden-SUBANSIRI	Member
11	Warden- BRAHMUPTRA	Member



ANNEXURE - XI

NERIST ENTRANCE EXAMINATION

**Report on Admission during 2024-25 session through
NERIST Entrance Examination (NEE-I, NEE-II & NEE-III) - 2024**

1. Admission Notice:

The admission notification was published in the following newspapers:

Sl. No.	Name of News Paper
a.	The Telegraph – All (Kolkata +NE States)
b.	Niyomiya Barta - Assam
c.	The Shillong Times - Meghalaya
d.	The Nagaland Post - Nagaland
e.	Dainik Ganadoot - Nagaland
f.	Sikkim Express - Sikkim
g.	Mizoram Post - Mizoram
h.	Dainik Sambad - Tripura
i.	Sangai Express (Eng+Manipuri) - Manipur
j.	Arunachal Times -Arunachal Pradesh
k.	Echo of Arunachal - Arunachal Pradesh
l.	Arunachal Front - Arunachal Pradesh

Date of Examination: 11.05.2024 - NEE – II & III
12.05.2024 - NEE - I

Candidates Appeared in NEE-2024 (State, Category & Module wise)

Name of state	Module						Total
	NEE-I		NEE-II		NEE-III		
	Male	Female	Male	Female	Male	Female	
Arunachal Pradesh	1069	740	644	617	34	7	3111
Assam	227	126	370	166	164	87	1140
Manipur	138	43	143	58	18	8	408
Meghalaya	85	70	86	50	65	39	395
Mizoram	14	5	11	10	3	-	43
Nagaland	64	30	106	66	36	24	326
Sikkim	1	-	5	4	11	16	37
Tripura	141	79	53	45	43	17	378
All India	62	36	51	12	21	4	186
PD	-	2	1	-	4	-	7
Total	1801	1131	1470	1028	399	202	6031



State & Branch wise details of candidates of appeared in NEE-III-2024

Name of State	AE		CE		CSE		ECE		EE		ME	
	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	22	6	4	1	-	-	5	-	3	-
Assam	13	7	59	41	17	16	10	4	39	16	26	3
Manipur	-	-	8	4	3	1	4	1	3	1	-	1
Meghalaya	-	-	16	17	11	6	9	4	13	9	16	3
Mizoram	-	-	1	-	-	-	-	-	2	-	-	-
Nagaland	-	-	17	22	1	2	-	-	12	-	6	-
Sikkim	-	-	3	1	4	3	2	4	-	4	2	4
Tripura	-	-	15	11	8	4	6	1	9	1	5	-
All India	1	-	5	1	6	2	2	1	4	-	3	-
PD	-	-	4	-	-	-	-	-	-	-	-	-
Total	14	7	150	103	54	35	33	15	87	31	61	11

Candidates selected (State and Module wise) : 2024

Name of State & Category	MODULE				Total
	NEE-I	NEE-II		NEE-III	
		Technology	Forestry		
PRC	37	12	3	6	58
Physical Handicapped	2	1	-	1	4
Arunachal Pradesh	27	9	3	3	42
Assam	23	10	3	7	43
Manipur	23	7	3	6	39
Meghalaya	20	7	3	6	36
Mizoram	12	5	3	2	22
Nagaland	20	7	3	5	35
Sikkim	-	7	-	4	11
Tripura	27	9	3	5	44
All India	21	7	2	5	35
EWS	25	8	3	7	43
Floating	-	-	-	2	2
Total	237	89	29	59	414



Candidates wait-listed (State & Module wise) 2024

Name of State & Category	MODULE				Total
	NEE-I	NEE-II		NEE-III	
		Technology	Forestry		
PRC	120	39	18	38	215
Physical Handicapped	-	-	-	2	2
Arunachal Pradesh	148	46	21	6	221
Assam	74	34	12	41	161
Manipur	69	19	7	12	107
Meghalaya	41	15	6	22	84
Mizoram	2	2	2	1	7
Nagaland	40	14	6	12	72
Sikkim	-	2	-	4	6
Tripura	74	25	4	16	119
All India	52	23	3	12	90
EWS	8	21	2	15	46
Floating	-	-	-	16	16
Total	628	240	81	197	1146

COUNSELLING SCHEDULE OF NEE-2024

1.	22.07.2024	Selected & Waiting List of NEE-III
2.	23.07.2024 & 24.07.2024	Selected & Waiting List of NEE –II
3.	25.07.2024 & 26.07.2024	Selected & Waiting List of NEE – I



ANNEXURE – XII

LIST OF FACULTY MEMBERS

FORESTRY			
Sl.No.	Name	Post Holding	Remarks
1	Dr. Binay Singh	Professor	
2	Dr. C.L.Sharma	Professor	
3	Dr. M.Sharma	Professor	
4	Dr. K.Shrivastava	Professor	
5	Dr. Awadhesh Kumar	Professor	
6	Dr. P.R. Gajurel	Professor	
7	Dr. L.B. Singha	Associate Professor	On lien
8	Dr. Govinda Pangging	Associate. Professor	
9	Dr. Ashish Paul	Assistant Professor	
10	Dr. Madhu Kamle	Assistant Professor	On lien
11	Dr. Pradeep Kumar	Assistant Professor	On lien
12	Dr. Gurumayum Ranibala	Assistant Professor	
13	Dr. Mihir Ranjan Panda	Assistant Professor	
AGRICULTURAL ENGINEERING			
1	Dr. P. P. Dabral	Professor	
2	Dr. K. N. Dewangan	Professor	
3	Dr. S.K.Shrivastava	Professor	
4	Dr. Aditi Bhadra	Professor	
5	Dr. Arnab Bandopadhyay	Professor	
6	Dr. Pankaj Kr. Pandey	Professor	
7	Dr. Thaneswar Patel	Professor	
8	Shri M. Ukil Singh	Assistant Professor	
9	Shri Arun Kr.Choudhary	Assistant Professor	
10	Mr. Anubhab Pal	Assistant Professor	
11	Dr. Tage Tapang	Assistant Professor	
12	Mrs. Vanita Pandey	Assistant Professor	
13	Shri Dhiraj Kurmar Yadav	Assistant Professor	
14	Dr. Nilesh Sakre	Assistant Professor	
CIVIL ENGINEERING			
1	Dr. R.K.Prasad	Professor	
2	Dr.S.Baishya	Professor	
3	Dr. S.Mishra	Professor	
4	Dr. Ajay Bharti	Professor	
5	Dr. Dipika Devi	Professor	
6	Shri S.K.Sahu	Associate Professor	
7	Dr. Ajanta Kalita	Associate Professor	
8	Dr. Dibyendu Pal	Associate Professor	
9	Dr. Mudo Puming	Associate .Professor	
10	Dr. Yamem Tamut	Associate Professor	
11	Dr. Neero Gumsar Sorum	Associate Professor	
12	Ms. Y. Bidyalaxmi Devi	Assistant Professor	
13	Shri K. James Singh	Assistant Professor	
14	Dr. Jeetendra Singh Khichad	Assistant Professor	
15	Miss Tori Basar	Assistant Professor	
16	Shri Debabrata Da	Assistant Professor	



COMPUTER SCIENCE & ENGINEERING			
1	Dr. N. Marchang	Professor	
2	Dr. M. Marjit Singh	Professor	
3	Dr. Margrate Kathing	Associate Professor	
4	Dr. Satya Jyoti Borah	Associate Professor	
5	Shri Kapang Legoh	Associate Professor	
6	Dr. Manjul Saikia	Associate Professor	
7	Dr. Amar Taggu	Associate Professor	
8	Shri Aswini Kr. Patra	Assistant Professor	
9	Dr. Ajit Kumar Singh Yadav	Assistant Professor	
10	Shri Yogendra Mohan	Assistant Professor	
11	Shri Pradeep Kamboj	Assistant Professor	
12	Dr. Kaushik Ray	Assistant Professor	
13	Dr. Lilapati Waikhom	Assistant Professor	
14	Shri Manoj Das	Assistant Professor	
ELECTRICAL ENGINEERING			
1	Dr.R.K.Mehta	Professor	
2	Dr.O.P.Roy	Professor	On lien
3	Dr. Sarsing Gao	Professor	
4	Dr. S.K.Bhagat	Professor	
5	Dr. Arvind Kumar Singh	Professor	
6	Dr. Adikanda Parida	Professor	
7	Dr. Devendra Potnuru	Professor	
8	Shri R. Blange	Associate Professor	
9	Shri T.V.P.Singh	Associate Professor	
10	Dr. M. Deben Singh	Associate Professor	
11	Dr. Anu Kr. Das	Associate Professor	
12	Dr. Kedri Janardhana	Associate Professor	
13	Dr. N.L.Meitei	Assistant Professor	
14	Ms. Somila Hashunao	Assistant Professor	
15	Dr. Akhilesh Sharma	Assistant Professor	
16	Dr. Piyali Das	Assistant Professor	
17	Dr. P. Devachandra Singh	Assistant Professor	
ELECTRONICS & COMMUNICATION ENGINEERING			
1	Dr. Rajesh Kumar	Professor	
2	Dr. Tripurari Sharan	Professor	
3	Dr. Joyatri (Bora) Hazarika	Professor	
4	Dr. Madhusudhan Mishra	Professor	
5	Dr. Pranab Kishore Dutta	Professor	
6	Dr. Ashok Kumar Ray	Associate Professor	
7	Dr. Kurmendra	Associate Professor	
8	Dr. Ram Gopal	Associate Professor	
9	Mr. Rusni Kima Mangang	Assistant Professor	
10	Shri. Akho John Richa	Assistant Professor	
11	Shri. Anil Kr. Gautam	Assistant Professor	
12	Mr. M. Edison Singh	Assistant Professor	
13	Mrs. Bhagyalakshmi Narayanapuram	Assistant Professor	
14	Shri Rajarhi Sen	Assistant Professor	
15	Dr. Rajib Sharma	Assistant Professor	



MECHANICAL ENGINEERING			
1	Dr. Asis Giri	Professor	
2	Dr. M. Chandrasekaran	Professor	
3	Dr. S. Mahto	Professor	
4	Dr. S. Samanta	Professor	
5	Dr. Satyam Shivam Gautam	Professor	
6	Dr. Sandeep Singh	Professor	
7	Dr. K.K. Mandal	Associate Professor	
8	Dr. Narendra Kumar Rana	Associate Professor	
9	Dr. Maryom Dabi	Associate Professor	
10	Dr.. Nabam Teyi	Associate Professor	
11	Dr. Thaddeus M.P	Assistant Professor	
12	Dr. Santosh Kumar Tamang	Assistant Professor	
13	Md. S. Mujaheed Khan	Assistant Professor	
14	Dr. Yadaiah Nirsanametla	Assistant Professor	
15	Dr. Jyotisman Borah	Assistant Professor	
16	Shri Sanjib Kalita	Assistant Professor	
17	Dr. Sohini Choudhury	Assistant Professor	
18	Shri Koustav Moni Bora	Assistant Professor	
19	Dr. Nitish Kumar	Assistant Professor	
CHEMISTRY			
1	Dr. P.K. Tripathy	Professor	
2	Dr. N. Deb	Professor	
3	Dr. Meera Yadav	Associate Professor	
4	Dr. Amit Anthwal	Associate Professor	
5	Dr. N. Ghanashyam Singh	Assistant Professor	
6	Dr. Shashi Lata Bharati	Assistant Professor	
7	Dr. Jagannath Bhuyan	Assistant Professor	On lien
8	Dr. A. Murugan	Assistant Professor	
9	Dr. Nagendra Nath Yadav	Assistant Professor	
10	Dr. Karuna Mahato	Assistant Professor	
HUMANITIES & SOCIAL SCIENCES (HSS)			
1	Dr. P.R. Parida	Professor	
2	Dr. Raju Barthakur	Professor	
3	Shri. R. Prasad	Associate Professor	
4	Dr. Ravi Kumar Gupta	Associate Professor	
5	Dr. Yuma Narah	Assistant Professor	
6	Dr. Geling Modi	Assistant Professor	
7	Dr. Jango Sonam	Assistant Professor	
MATHEMATICS			
1	Dr. B.K. Singh	Professor	
2	Dr. M.M. Dixit	Professor	
3	Dr. Mohammad Hassan	Assistant Professor	
4	Dr. Chandra Prakash Pandey	Assistant Professor	
5	Dr. Upasana Gogoi	Assistant Professor	
6	Dr. Amit Patra	Assistant Professor	
7	Dr. Biswajit Pandit	Assistant Professor	
8	Shri Sekhar Singh Negi	Assistant Professor	
9	Dr. Neelabja Chatterjee	Assistant Professor	
10	Dr. Pranjal Vishwakarma	Assistant Professor	



PHYSICS			
1	Dr. Tado Karlo	Professor	
2	Dr. Mukesh Upadhyay	Professor	
3	Dr. Rajesh Kumar Yadav	Professor	
4	Dr. Kunal Borah	Associate Professor	
5	Dr. Pawan Chetri	Associate Professor	
6	Dr. Kamal Saharia	Associate Professor	On lien
7	Dr.(Mrs.) Akbari Jahan	Assistant Professor	
8	Dr. W. Joychandra Singh	Assistant Professor	
9	Dr. Chiging Sonia	Assistant Professor	
10	Dr. Mihir Paul	Assistant Professor	
11	Dr. Raju Kumar Biswas	Assistant Professor	
CENTRE FOR MANAGEMENT STUDIES (CMS)			
1	Dr. Shibabrata Choudhury	Associate Professor	
2	Dr. Bijoylaxmi Sarmah	Associate Professor	
3	Dr. Manmohan Mall	Assistant Professor	
Total :149			



NORTH EASTERN REGIONAL INSTITUTE OF SCIENCE & TECHNOLOGY

(Deemed to be University, u/s 3 of the UGC Act, 1956)

Under the Ministry of Education, Government of India

Nirjuli :: Itanagar :: Arunachal Pradesh :: 791 109

ANNUAL ACCOUNTS

2024-25

NORTH EASTERN REGIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY

NIRJULI :: ARUNACHAL PRADESH :: 791 109

BALANCE SHEET AS AT 31-03-2025

SOURCES OF FUNDS	Schedule	Current Year	Previous Year
CORPUS/CAPITAL FUND	1	3 57 54 08 177.27	3 38 23 73 744.74
DESIGNATED/ EARMARKED / ENDOWMENT FUNDS	2	6 81 762.13	1 17 73 170.13
CURRENT LIABILITIES & PROVISIONS	3	36 94 22 575.48	39 05 07 069.23
TOTAL		3 94 55 12 514.88	3 78 46 53 984.10

APPLICATION OF FUNDS	Schedule	Current Year	Previous Year
FIXED ASSETS			
Tangible Assets	4	1 88 34 67 159.10	1 86 02 86 831.57
Intangible Assets	4	58 117.00	14 37 509.00
Capital Works-In-Progress	4	1 80 25 49 655.00	1 62 85 02 619.00
INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	5		0.00
Long Term			0.00
Short Term			0.00
INVESTMENTS - OTHERS	6	6 02 531.00	8 51 184.00
CURRENT ASSETS	7	24 96 20 646.78	28 33 95 905.53
LOANS, ADVANCES & DEPOSITS	8	92 14 406.00	1 01 79 935.00
TOTAL		3 94 55 12 514.88	3 78 46 53 984.10

SIGNIFICANT ACCOUNTING POLICIES - SCHEDULE 23

CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS - SCHEDULE 24


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 Nirjuli, Arunachal Pradesh



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SCHEDULES FORMING PART OF BALANCE SHEET

SCHEDULE - 1 CORPUS/CAPITAL FUND

Particulars		Current Year	Previous Year
	Balance at the beginning of the year	3 38 23 73 744.74	3 33 44 74 371.48
Add:	Contributions towards Corpus/Capital Fund		0.00
Add:	Grants from Government of India (MoE) to the extent utilized for capital expenditure	31 87 61 530.44	20 21 47 368.00
Add:	Value of free hold land donated by Government Arunachal Pradesh		0.00
Add:	Assets Purchased out of Earmarked Funds		0.00
Add:	Assets Purchased out of Sponsored Projects, where ownership vests in the institution		0.00
Deduct:	Unutilize grants transferred to curent liabilities Sch-3		0.00
Add:	Excess of Income over expenditure transferred from the Income & Expenditure Account		0.00
Total		3 70 11 35 275.18	3 53 66 21 739.48
Add:	Transfer from Income & Expenditure account being excess of income over expenditure		0.00
Deduct:	Deficit transferred from the Income & expenditure Account	- 12 57 27 097.91	- 15 42 47 994.74
Balance at the year end		3 57 54 08 177.27	3 38 23 73 744.74


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 Nirjuli, Arunachal Pradesh


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 Itanagar, Arunachal Pradesh- 791 109

Particulars	Fund wise Breakup				Total	
	Fund A	Fund B	Fund C	Endowment Funds	Current Year	Previous Year

A.

a) Opening balance	0.00	0.00	0.00	1 17 73 170.13	.00	1 12 84 914.00
b) Additions during the year(Students welfare Fund)	0.00	0.00	0.00	.00	.00	4 50 520.00
c) Income from investments made of the funds	0.00	0.00	0.00	.00	.00	37 736.13
d) From TEQUIP account	0.00	0.00	0.00	.00	.00	.00
e) Interest on Savings Bank a/c	0.00	0.00	0.00	0.00	.00	.00
f) Other additions (Specify nature)	0.00	0.00	0.00	0.00	.00	.00

Total (A)	0.00	0.00	0.00	1 17 73 170.13	.00	1 17 73 170.13
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B.

i) Utilisation/Expenditure towards objectives of funds	0.00	0.00	0.00	0.00	0.00	0.00
ii) Capital Expenditure	0.00	0.00	0.00	60 00 000.00	0.00	0.00
ii) Revenue Expenditure	0.00	0.00	0.00	50 91 408.00	0.00	0.00

Total (B)	0.00	0.00	0.00	1 10 91 408.00	0.00	0.00
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Closing balance at the year end (A-B)	0.00	0.00	0.00	6 81 762.13	.00	1 17 73 170.13
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 Arunachal Pradesh


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 Director Arunachal Pradesh- 791 109

SCHEDULE 2A

ENDOWMENT FUNDS

Specimen format of Sub Schedule to support the figures in the column "Endowment Funds" in the Schedule "Earmarked / Endowment Funds", forming part of the Balance Sheet

1. Sr. No.	2. Name of the Endowment	Opening Balance		Additions during the Year		Total		9. Transferred to Schedule as mentioned below	Closing Balance		12. Total (10+11)
		3. Endowment	4. Accumulated Interest	5. Endowment	6. Interest	7. Endowment (3+5)	8. Accumulated Interest (4+6)		10. Endowment	11. Accumulated Interest	
1	Donated by Governor - Arunachal Pradesh	4 30 573.00	0.00	0.00	.00	4 30 573.00	0.00	0.00	4 30 573.00	0.00	4 30 573.00
2	Gold Medal : Topper of Dtp Module	1 71 958.00	0.00	0.00	.00	1 71 958.00	0.00	0.00	1 71 958.00	0.00	1 71 958.00
3	Students Welfare Fund	48 42 755.00	0.00	0.00	.00	48 42 755.00	0.00	Schedule - 10, OH - 31 48 42 755.00	.00	0.00	.00
4	Donation for Shristi-2009 donated by NHPC	2 48 653.00	0.00	0.00	.00	2 48 653.00	0.00	Schedule - 10, OH - 31 2 48 653.00	.00	0.00	.00
5	Corpus Fund	15 00 000.00	0.00	0.00	.00	15 00 000.00	0.00	Schedule - 10, OH - 35 15 00 000.00	.00	0.00	.00
6	Equipment Repair Fund	15 00 000.00	0.00	0.00	.00	15 00 000.00	0.00	Schedule - 10, OH - 35 15 00 000.00	.00	0.00	.00
7	Faculty Development Fund	15 00 000.00	0.00	0.00	.00	15 00 000.00	0.00	Schedule - 10, OH - 35 15 00 000.00	.00	0.00	.00
8	Maintenance Fund	15 00 000.00	0.00	0.00	.00	15 00 000.00	0.00	Schedule - 10, OH - 35 15 00 000.00	.00	0.00	.00
	Total	1 16 93 939.00	0.00	.00	.00	1 16 93 939.00	0.00	11091408.00	6 02 531.00	0.00	6 02 531.00

[Signature]
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Arunachal Pradesh-791 109

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Nirjuli, Arunachal Pradesh

[Signature]
Director
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Arunachal Pradesh-791 109

SCHEDULE 3 - CURRENT LIABILITIES & PROVISIONS

	Current Year	Previous Year
A. CURRENT LIABILITIES		
1. Deposits from staff	0.00	0.00
2. Deposits from students (Caution Money)	4 50 67 410.00	4 56 62 385.00
3. Sundry Creditors	.00	
a) For Goods & Services	.00	0.00
b) Others	.00	0.00
4. Deposit-Others (including EMD, Security Deposit)	6 33 89 575.91	7 39 85 579.91
5. Statutory Liabilities (TDS, FR, DMF):	12 30 819.00	11 79 260.00
6. Other Current Liabilities	.00	
a) Alumni Association	29 68 270.00	29 68 270.00
b) Project Account	38 43 661.00	36 31 569.00
c) NIDM	3 63 283.00	3 63 283.00
d) Receipts against sponsored projects	5 90 27 870.20	5 90 27 870.20
e) Scholarship Account	.00	23 94 002.22
f) Bank Interest	27 86 822.00	80 43 811.00
g) NCC	3 28 000.00	3 28 000.00
h) HEFA Principal Amount	.00	1 72 63 756.00
i) NSD	7 20 000.00	7 20 000.00
j) Misc	37 10 293.00	4 61 849.28
k) Unutilized Govt. Grants		
i) OH-31	31 79 618.30	2 85 845.11
ii) OH-35	11 70 649.60	2 68 424.04
iii) OH-36	5 61 95 878.47	5 12 96 278.47
Total (A)	24 39 82 150.48	26 78 80 183.23
B. PROVISIONS		
1. Gratuity	3 56 01 847.00	3 99 07 580.00
2. Leave Encashment	2 43 56 204.00	2 90 52 700.00
3. Pay & Allowances	6 02 33 370.00	5 00 21 190.00
4. Administrative & General Expenses	10 78 081.00	9 98 467.00
5. Repair & Maintenance	41 70 923.00	26 46 949.00
Total (B)	12 54 40 425.00	12 26 26 886.00
Total (A+B)	36 94 22 575.48	39 05 07 069.23

Assistant Registrar
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Jharkhand Pradesh-791105

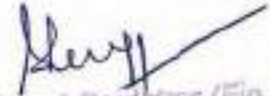
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Director
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विदेशक / Director
नरिस्ट / NERIST
विश्वविद्यालय, शिक्षा मंत्रालय, भारत

SCHEDULE - 3 (A) SPONSORED PROJECTS

1. Sr. No.	2. Name of the Project	Opening Balance		5. Receipts/ Recoveries during the year	6. Total	7. Expenditure during the year	Closing Balance	
		3. Credit	4. Debit				8. Credit	9. Debit
1	DBT Project	1 67 09 709.00	0.00	49 08 872.00	2 16 18 581.00	81 31 757.00	1 34 86 824.00	0.00
2	NMHS Project	19 34 142.50	0.00	5 67 585.20	25 01 727.70	3 58 332.20	21 43 395.50	0.00
3	Other Projects	4 80 32 807.94	0.00	1 16 50 624.84	5 96 83 432.78	1 63 07 740.58	4 33 75 692.20	0.00
4	ICCSR Projects	21 375.50	0.00	583.00	21 958.50	0.00	21 958.50	0.00
	Total	6 66 98 034.94	0.00	1 71 27 665.04	8 38 25 699.98	2 47 97 829.78	5 90 27 870.20	0.00

1. The Projects may be listed agency-wise, with sub-totals for each agency.
2. The total of Col. 8 (Credit) will appear under the above head on the liabilities side of the Balance Sheet (Schedule 3).
3. The total of Col. 9 (Debit) will appear as Receivables in Schedule 8, Loans, Advances and Deposits, on the Assets side of the Balance Sheet.


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SCHEDULE 3 (B) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS

1. Sr. No.	2. Name of the Sponsor	Opening Balance		5. Receipts during the year	6. Total	7. Transferred to OH-31 Schedule - 10 during the year	Closing Balance	
		3. Credit	4. Debit				8. Credit	9. Debit
1	MoE & Others	23 94 651.22	0.00	0.00	23 94 651.22	23 94 651.22	0.00	0.00

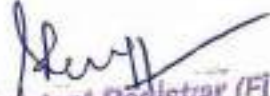

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SCHEDULE 3(C) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS

	Current Year
A. Plan Grants: Government of India	
Balance B/F	5 18 50 547.62
Add : Receipts during the year	1 49 83 56 756.00
Total (A)	1 55 02 07 303.62
B. Less Refunds	
Less: Utilized for Revenue Expenditure	1 17 08 99 626.81
Less: Utilized for Capital expenditure	31 87 61 530.44
Total (B)	1 48 96 61 157.25
Unutilized carried forward (A-B)	6 05 46 146.37

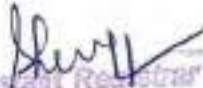

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OTHER LIABILITIES AS ON 31.03.2025

Sl.No.	Particulars	Opening Balance	Addition During 2024-25	Total	Payment during 2024-25	Closing balance as on 31.03.2025
1	Caution Money of Students	4 56 62 385.00	44 55 000.00	5 01 17 385.00	50 49 975.00	4 50 67 410.00
2	Security Deposit	7 54 29 899.91	1 01 19 560.00	8 55 49 459.91	2 04 64 000.00	6 50 85 459.91
3	TDS on GST	11 80 460.00	88 43 356.00	1 00 23 816.00	88 35 895.00	11 87 921.00
4	Allumni Association	29 68 270.00	.00	29 68 270.00	0.00	29 68 270.00
5	NIDM	3 63 283.00	.00	3 63 283.00	0.00	3 63 283.00
6	Scholarship	23 94 002.22	0.00	23 94 002.22	23 94 002.22	.00
7	Project Account	36 31 569.00	6 75 000.00	43 06 569.00	4 62 908.00	38 43 661.00
8	NCC	3 28 000.00	0.00	3 28 000.00	0.00	3 28 000.00
9	Sponsored Research Project	5 90 27 870.20	.00	5 90 27 870.20	.00	5 90 27 870.20
10	HEFA Principle	1 72 63 756.00	0.00	1 72 63 756.00	1 72 63 756.00	.00
11	Bank Interest	80 43 811.00	27 86 822.00	1 08 30 633.00	80 43 811.00	27 86 822.00
12	Income Tax	- 1 200.00	60 08 047.00	60 06 847.00	59 63 949.00	42 898.00
13	Forest Royalty	0.00	27 30 767.00	27 30 767.00	27 60 657.00	- 29 890.00
14	DMF	- 13 94 320.00	8 27 886.00	- 5 66 434.00	10 24 560.00	- 15 90 994.00
15	Labour Cess	0.00	24 90 845.00	24 90 845.00	24 90 845.00	.00
16	NSD	7 20 000.00	.00	7 20 000.00	0.00	7 20 000.00
17	EMD	- 50 000.00	0.00	- 50 000.00	25 000.00	- 75 000.00
18	Misc income	4 61 849.28	37 10 293.00	41 72 142.28	4 61 849.28	37 10 293.00
Total		21 60 29 635.61	4 26 47 576.00	25 86 77 211.61	7 52 41 207.50	18 34 36 004.11


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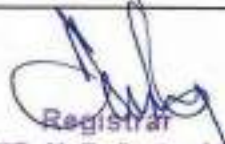
SCHEDULE 4 - FIXED ASSETS


Under this head, classification and disclosures shall be as follows :

1. Land	Includes freehold land and leasehold land, to be shown distinctly
2. Site Development	
3. Buildings	Include Institution's buildings like college buildings, office buildings, staff residential buildings, hostel buildings, temporary structures and sheds.
4. Plant and machinery	Include air conditioners, water/air coolers, generator sets, television sets, fire extinguishers, etc.
5. Electrical Installation	Include electrical fixtures and fittings such as fans, and tube light fittings
6. Tube wells & water supply system	Tubewells and water supply systems may be shown as a distinct category
7. Office equipment	Include such items as fax machines, photocopiers, EPABX, typewriters, duplicating machines, etc.
8. Laboratory & Scientific Equipment	Include such items as microscopes, telescopes, dissection equipment, glass apparatus, measurement instruments and other types of laboratory equipment.
9. Audio Visual Equipment	Include Television sets, overhead projector, Tape Recorders, DVD/ VCD Player, Camera, Movie Projectors etc
10. Furniture, fixtures and Fittings	Include items such as desks/benches, cabinets, almirahs, tables, chairs, partitions, etc
11. Computers/Peripherals	Include computers, printers and other peripherals like, UPS etc.
12. Sports Equipment	Include items such as table tennis table, gym equipment.
13. Vehicles	Include Buses, lorries, vans, Cars, scooters, etc.
14. Library Books and Scientific Journals	Library books will include books/ Scientific Journals
15. Intangible assets	Include computer software, patents & trade marks, E Journals specified separately.
16. Capital Work-In-Progress	Fixed assets in the course of construction should be shown against this head till they are ready for their intended use. Plant, machinery and equipment acquired and pending installation and commissioning should also be included here.


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NORTH EASTERN REGIONAL INSTITUTE OF SCIENCE & TECHNOLOGY

(Deemed to be University u/s 3 of the UGC Act, 1956)

NIRJULI :: ITANAGAR :: ARUNACHAL PRADESH

SCHEDULE FORMING PART OF BALANCE SHEET AS ON 31ST MARCH, 2025

SCHEDULE - 4 - FIXED ASSETS (TANGIBLE ASSETS)

Sl. No.	Description	Rate	GROSS BLOCK				DEPRECIATION				NET BLOCK	
			Cost/valuation	Addition	Deduction	Cost/valuation	As at the	Addition	Deduction	Total upto	As at the	As at the
			at beginning of the year	during the year	during the year	at end of the year	beginning of the year	during the year	during the year	the year end	current year end	Previous year end
A. TANGIBLE ASSETS												
1	Land	0%	2 08 52 250.00	0.00	0.00	2 08 52 250.00	0.00	0.00	0.00	2 08 52 250.00	2 08 52 250.00	2 08 52 250.00
2	Site Development	0%	17 54 21 260.00	1 52 17 757.00	0.00	19 06 39 017.00	0.00	0.00	0.00	19 06 39 017.00	19 06 39 017.00	17 54 21 260.00
3	Buildings	2%	2 13 86 02 176.00	24 47 438.00	0.00	2 14 10 49 614.00	65 14 12 119.53	4 28 10 992.28	0.00	69 42 31 111.81	1 44 68 16 502.19	1 48 71 90 056.47
4	Roads and Bridges	2%	3 42 86 337.00	0.00	0.00	3 42 86 337.00	34 28 633.70	6 85 726.74	0.00	41 14 368.44	3 01 71 976.56	2 08 57 703.30
5	Telersell & Water supply	2%	2 07 79 617.00	0.00	0.00	2 07 79 617.00	30 70 834.58	4 15 592.34	0.00	34 53 426.92	1 75 27 190.08	1 77 42 782.42
6	Electrical Installations	5%	42 77 317.00	7 58 900.00	0.00	50 36 217.00	15 62 388.55	2 53 810.85	0.00	18 14 195.40	32 60 017.60	27 14 928.43
7	Plant & Machinery	5%	1 68 87 440.14	1 28 50 037.00	0.00	2 97 37 477.14	53 60 224.83	14 86 875.86	0.00	67 87 098.69	2 20 50 378.45	1 83 87 215.21
8	Lab & Scientific Equipment	8%	17 65 25 912.86	2 33 62 935.00	0.00	39 98 98 847.86	36 69 61 516.91	1 19 91 907.83	0.00	39 49 53 424.74	9 45 423.12	99 74 395.95
9	Office Equipment	7.5%	5 15 95 039.23	60 40 548.00	0.00	5 76 35 587.23	4 51 78 771.21	45 22 669.04	0.00	4 55 01 640.25	81 34 146.98	64 16 268.02
10	Audio Visual Equipment	7.5%	1 61 28 527.00	66 43 997.00	0.00	2 27 71 624.00	42 23 870.83	17 07 871.86	0.00	59 31 742.73	1 68 39 831.27	1 19 04 656.08
11	Computer Peripherals	20%	3 08 92 207.00	78 94 123.00	0.00	3 87 86 330.00	2 76 02 701.01	77 57 266.02	0.00	3 43 59 967.01	34 26 262.99	32 89 505.99
12	Furniture, Fixture & Fittings	7.5%	20 17 34 196.43	1 75 09 634.00	0.00	21 92 43 830.43	13 42 94 746.57	1 64 43 287.28	0.00	15 07 38 031.85	6 85 05 796.58	6 74 39 449.86
13	Vehicles	10%	1 65 43 322.42	16 45 540.00	0.00	1 81 88 862.42	1 68 20 613.11	18 18 886.28	0.00	1 86 39 495.39	- 4 50 656.57	- 2 77 290.29
14	Library Books/Journals	10%	7 28 84 629.12	65 13 739.44	0.00	7 93 98 368.66	7 96 23 090.63	79 39 836.87	0.00	8 75 62 927.50	- 81 64 558.84	- 67 38 461.41
15	Digital Library	8%	1 38 82 207.00	0.00	0.00	1 38 82 207.00	32 71 771.44	11 70 576.56	0.00	43 82 348.00	94 99 839.00	1 06 10 435.36
16	DG Set	5%	47 29 378.00	0.00	0.00	47 29 378.00	4 71 275.30	2 36 468.90	0.00	7 07 744.20	46 21 633.80	42 58 102.70
17	Sports Equipment	7.5%	18 77 601.00	0.00	0.00	18 77 601.00	18 33 571.12	1 40 820.08	0.00	11 74 391.29	7 03 209.81	8 44 829.89
18	LAN/WAN	7.5%	18 37 343.00	85 24 026.00	0.00	1 03 61 369.00	1 37 800.73	7 77 102.68	0.00	9 14 903.41	94 46 465.00	14 99 542.28
19	Water Treatment Plant (WTP)	2.0%	50 00 800.00	80 65 744.00	0.00	1 30 69 784.00	1 00 000.00	2 61 394.88	0.00	3 61 394.88	1 27 08 349.12	49 00 850.80
20	Medical Equipment	7.5%	1.00	9.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
21	Installation of CCTV	7.5%	0.00	1 29 350.00	0.00	1 29 350.00	0.00	9 701.25	0.00	9 701.25	1 39 648.75	0.00
22	Upgradation of 11 KVA to 33 KVA transmission line	5.0%	0.00	2 30 00 000.00	0.00	2 30 00 000.00	0.00	10 00 000.00	0.00	10 00 000.00	1 90 00 900.00	0.00
23	Cable Trenching	3.0%	0.00	70 67 626.00	0.00	70 67 626.00	0.00	3 53 381.30	0.00	3 53 381.30	67 14 244.70	0.00
TOTAL (A)			3 20 47 46 761.76	14 47 14 494.44	0.00	3 34 94 61 256.14	1 34 44 59 930.15	12 15 34 166.81	0.00	1 46 59 34 096.96	1 88 34 67 159.18	1 86 02 86 831.48
B. CAPITAL WORKS IN PROGRESS			1 62 85 92 619.00	17 49 47 036.00	0.00	1 80 25 49 655.00	0.00	0.00	0.00	0.00	1 80 25 49 655.00	1 62 85 92 619.00
C. INTANGIBLE ASSETS												
23	Computer Software	40%	24 48 478.00	0.00	0.00	24 48 478.00	20 10 970.00	13 79 391.60	0.00	33 90 361.60	58 117.40	14 37 509.00
23	E-Journals	40%	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	Patents		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL (C)			24 48 478.00	1.00	0.00	24 48 478.00	20 10 970.00	13 79 391.60	0.00	33 90 361.60	58 117.40	14 37 509.00
GRAND TOTAL (A+B+C)			4 83 66 97 859.70	31 87 61 536.44	0.00	5 15 54 59 390.14	1 34 64 78 900.15	12 29 13 558.41	0.00	1 46 95 84 458.56	3 68 60 74 331.58	3 49 02 26 959.58
Previous Year			4 65 02 96 763.49	20 21 47 368.00	1 57 46 271.79	4 83 66 97 859.70	1 28 65 79 854.18	7 44 24 431.92	1 45 38 385.97	1 34 64 70 900.14	3 49 02 26 959.57	3 36 37 16 989.31

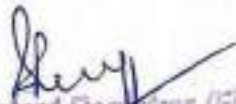
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SCHEDULE 5 : INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS

	Current Year	Previous Year
1 In Central Government Securities	0.00	0.00
2 In State Government Securities	0.00	0.00
3 Other approved Securities	0.00	0.00
4 Shares	0.00	0.00
5 Debentures and Bonds	0.00	0.00
6 Term Deposits with Scheduled Bank (Govt. grants)	0.00	.00
7 Others (to be specified)	0.00	0.00
Total	0.00	0.00


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SCHEDULE 6 : INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS

		Current Year	Previous Year
1	In Central Government Securities	0.00	0.00
2	In State Government Securities	0.00	0.00
3	Other approved Securities	0.00	0.00
4	Shares	0.00	0.00
5	Debentures and Bonds	0.00	0.00
6	Others (to be specified)		
	a) Donated by Governor of Arunachal Pradesh-Gold medal-Diploma topper	4 30 573.00	4 30 573.00
	b) Institute Gold Medal	1 71 958.00	1 71 958.00
	c) Donation for Shristi donated by NHPC	.00	2 48 653.00
Total		6 02 531.00	8 51 184.00


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SCHEDULE 7 - CURRENT ASSETS

	Current Year	Previous Year
1. Stock :		
a) Stores and Spares	0.00	0.00
b) loose Tools	0.00	0.00
c) Publications	0.00	0.00
d) laboratory chemicals, consumables and glass ware	0.00	0.00
e) Building Material	0.00	0.00
f) Electrical Material	0.00	0.00
g) Stationery	0.00	0.00
h) Water supply material	0.00	0.00
2. Sundry Debtors:		
a) Debts Outstanding for a period exceeding six months	0.00	0.00
b) Others	0.00	0.00
3. Cash and Bank Balances		
a) With Scheduled Banks:		
- In Current Accounts	20 98 10 963.50	11 90 37 726.77
- In term deposit Accounts	0.00	0.00
- In Savings Accounts	3 84 44 202.01	16 31 76 471.49
b) Imprest	13 65 481.00	11 81 707.00
c) Cash in Hand	0.27	0.27
Total	24 96 20 646.78	28 33 95 905.53


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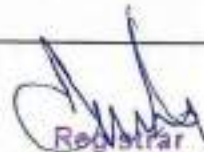

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DETAILS OF BANK BALANCES - SCHEDULE 7 (ANNEXURE - A)

I. Savings Bank Accounts		
1	SBI Society for NERIST Account	2 28 05 163.01
2	SBI Sponsored Research Project - DBT Account	1 34 86 824.00
3	SBI Sponsored Research Project - NMHS Account	21 43 395.50
4	SBI NEE Account	8 819.50
Total (I)		3 84 44 202.01
II. Current Account		
1	SBI Society for NERIST Current Account	9 09 90 834.81
2	SBI Academic Fee Account	7 09 27 658.12
3	AXIS Bank Account	44 30 681.87
4	Corpus Fund Account	.00
5	Equipment repairing Account	.00
6	Faculty development Account	.00
7	Maintenance Fund Account	54 138.00
8	Scholarship Account	.00
9	Sponsored Research Project Account	4 33 75 692.20
10	ICCSR Project Account	21 958.50
11	Income Tax Account	10 000.00
Total (II)		20 98 10 963.50
Grand Total (I + II)		24 82 55 165.51


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SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS

	Current Year	Previous Year
1. Advances to employees: (Non-interest bearing)		
a) Salary	0.00	0.00
b) Festival Advance	0.00	0.00
c) Medical Advance	0.00	0.00
d) Other (to be specified)	0.00	0.00
2. Long Term Loans to employees: (Interest bearing)	30 21 810.00	39 87 339.00
3. Advances and other amounts recoverable in cash or in kind or for value to be received:		
a) On Capital Account	0.00	0.00
b) Security Deposit to Executive Engineer (Elect) Deptt. Of Power, Govt. of AP, Naharlagun	54 33 448.00	54 33 448.00
c) Security Deposit to Indian Oil Corporation, Guwahati (for NGA)	5 00 000.00	5 00 000.00
d) For opening of Income Tax Account	0.00	.00
4. Prepaid Expenses		
a) Insurance	0.00	0.00
b) Other expenses	0.00	0.00
5. Deposits		
a) Telephone	0.00	0.00
b) Lease Rent	0.00	0.00


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c) Electricity	0.00	0.00
d) AICTE, if applicable	0.00	0.00
e) Others (to be specified)	0.00	0.00
6. Income Accrued:		
a) On Investments from Earmarked/ Endowment Funds	0.00	0.00
b) On Investments-Others	0.00	0.00
c) On Loans and Advances	0.00	0.00
d) Others (includes income due unrealized)	0.00	0.00
7. Other- Current assets receivable from UGC/sponsored projects	0.00	
a) Debit balances in Sponsored Projects	0.00	0.00
b) Debit balances in Sponsored Fellowships & Scholarships	0.00	0.00
c) Grants Receivable	0.00	0.00
d) Other receivables from UGC	0.00	0.00
8. Outstanding Shop Rent	2 59 148.00	2 59 148.00
Total	92 14 406.00	1 01 79 935.00


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INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2025

Particulars	Schedule	Current Year	Previous Year
INCOME			
Academic Receipts	9	6 64 19 687.12	3 86 88 222.59
Grants / Subsidies (MoE)	10	1 17 08 99 626.81	1 14 20 13 039.87
Income from investments	11	0.00	0.00
Interest earned	12	.00	.00
Other Income	13	1 70 83 189.50	73 11 778.00
Prior Period Income	14	0.00	0.00
TOTAL (A)		1 25 44 02 503.43	1 18 80 13 040.46
EXPENDITURE			
Staff Payments & Benefits (Establishment expenses)	15B	71 54 33 815.00	77 15 81 902.00
Academic Expenses	16	5 36 66 025.18	3 11 07 847.00
Administrative and General Expenses	17A	5 68 70 929.12	5 85 31 015.96
Transportation Expenses	18	51 42 412.00	39 57 404.00
Repairs & Maintenance	19A	37 06 73 264.00	35 12 33 124.00
Finance costs	20	11 947.63	13 357.50
Depreciation	4	12 29 13 558.41	5 98 91 045.95
Fixed Assets written off	4	.00	1 57 46 271.79
Other Expenses	21	.00	0.00
Prior Period expenses	22	5 54 17 650.00	5 01 99 067.00
TOTAL (B)		1 38 01 29 601.34	1 34 22 61 035.20
Balance being excess of income over expenditure (A-B)		- 12 57 27 097.91	.00
Balance being excess of expenditure over Income (A-B)		- 12 57 27 097.91	- 15 42 47 994.74
Balance Being Deficit Carried to Capital Fund		- 12 57 27 097.91	- 15 42 47 994.74


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**SCHEDULES FORMING PART OF INCOME &
EXPENDITURE ACCOUNT**

SCHEDULE 9 - ACADEMIC RECEIPTS

	Current Year	Previous Year
FEES FROM STUDENTS		
(A) Academic		
1. Tuition/Semester fee	1 88 84 550.00	1 58 91 254.00
2. Admission fee	40 04 000.00	2 80 360.00
3. Syllabus fee	8 00 000.00	7 12 346.00
4. Registration fee	30 86 500.00	3 02 569.00
Total (A)	2 67 75 050.00	1 71 86 529.00
(B) Examinations		
1. Annual Examination fee	45 48 390.00	21 99 724.00
2. Mark sheet, certificate fee	42 41 260.00	29 33 266.00
Total (B)	87 89 650.00	51 32 990.00
(C) Other Fees		
1. Identity card fee	7 62 300.00	1 12 465.00
2. Miscellaneous fee	.00	5 53 564.59
3. Medical fee	6 64 000.00	5 25 704.00
4. Grade Card Fee	12 28 000.00	10 52 890.00
5. Registrartion Card Fee		25 780.00
6. Electricity & Water	25 62 847.12	13 62 870.00
7. Extra Curricular Activities	11 11 880.00	22 78 650.00
8. Training & Placement	12 10 200.00	8 10 460.00
9. Thesis Fee	4 55 000.00	55 860.00
10. Hostel fee	.00	30 60 500.00
11. Mess Establishment Charges	36 08 220.00	10 27 760.00
12. Internet Charges	25 41 000.00	16 92 400.00
13. Alumni Association	25 10 640.00	.00
14. Student Welfare Fund	10 16 400.00	.00
15. Automation Fee	12 70 500.00	.00
16. Medical Insurance	.00	2 92 800.00
Total (C)	1 89 40 987.12	1 28 51 703.59
Total (A + B + C)	5 45 05 687.12	3 51 71 222.59
(D) 1. Sale of prospectus including admission forms	1 19 14 000.00	35 17 000.00
TOTAL (A+B+C+D)	6 64 19 687.12	3 86 88 222.59
GRAND TOTAL	6 64 19 687.12	3 86 88 222.59

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SCHEDULE 10- GRANTS/SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)


Schedule 10-Grant in Aid from MoE, New Delhi

Sl. No.	Particulars	OH 35 (Capital Creation)	OH 31 (Recurring)	OH 36 (Salary)	Total Current Year	Previous Year Total
1	Balance B/F including opening balance of capital advance	2 68 424.04	2 85 845.11	5 12 96 278.47	5 18 50 547.62	9 66 10 955.49
2	Add : Receipt/Receivable during the year	29 64 00 000.00	41 02 93 000.00	76 84 00 000.00	1 47 50 93 000.00	1 29 94 00 000.00
3	Add: Fund from other sources	2 32 63 756.00	.00	.00	2 32 63 756.00	.00
3	Total (1+2)	31 99 32 180.04	41 05 78 845.11	81 96 96 278.47	1 55 02 07 303.62	1 39 60 10 955.49
4	Less : Utilised for Capital Expenditure	31 87 61 530.44	0.00	0.00	31 87 61 530.44	20 21 47 368.00
5	Less : Utilised for revenue Expenditure	0.00	40 73 99 226.81	76 35 00 400.00	1 17 08 99 626.81	1 14 20 13 039.87
6	Total Balance C/F including closing Balance of Capital Balance	11 70 649.60	31 79 618.30	5 61 95 878.47	6 05 46 146.37	5 18 50 547.62


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DETAILS OF UTILIZATION OF GOVT FUNDS FOR THE YEAR ENDED 31ST MARCH 2025
FUND WISE BREAK UP

Sl. No	PARTICULARS	PLAN FUND OH-35	NON PLAN FUND OH-36	NON PLAN FUND OH-31	TOTAL
1	Grants Received during 2023-24				
	a. F.No.3-1/2024-TS.VII	3 59 52 000.00	9 43 63 000.00	5 84 16 000.00	18 87 31 000.00
	b. F.No.3-1/2024-TS.VII	28 12 000.00	73 92 000.00	45 76 000.00	1 47 80 000.00
	c. F.No.3-1/2024-TS.VII	12 36 000.00	32 45 000.00	20 08 000.00	64 89 000.00
	d. F.No.3-1/2024-TS.VII	3 59 52 000.00	4 71 82 000.00	3 89 44 000.00	12 20 78 000.00
	e. F.No.3-1/2024-TS.VII	28 12 000.00	36 96 000.00	30 51 000.00	95 59 000.00
	f. F.No.3-1/2024-TS.VII	12 36 000.00	16 22 000.00	13 39 000.00	41 97 000.00
	g. F.No.3-1/2024-TS.VII	4 04 46 000.00	9 43 63 000.00	1 94 72 000.00	15 42 81 000.00
	h. F.No.3-1/2024-TS.VII	31 63 000.00	73 92 000.00	15 25 000.00	1 20 80 000.00
	i. F.No.3-1/2024-TS.VII	13 91 000.00	32 45 000.00	6 69 000.00	53 05 000.00
	j. F.No.3-1/2024-TS.VII	10 33 34 000.00	4 71 82 000.00	7 18 96 000.00	22 24 12 000.00
	k. F.No.3-1/2024-TS.VII	80 92 000.00	36 96 000.00	56 32 000.00	1 74 20 000.00
	l. F.No.3-1/2024-TS.VII	35 74 000.00	16 22 000.00	24 72 000.00	76 68 000.00
	m. F.No.3-1/2024-TS.VII	5 07 91 000.00	14 37 92 000.00	10 78 44 000.00	30 24 27 000.00
	n. F.No.3-1/2024-TS.VII	40 15 000.00	1 12 64 000.00	84 48 000.00	2 37 27 000.00
	o. F.No.3-1/2024-TS.VII	15 94 000.00	49 44 000.00	37 08 000.00	1 02 46 000.00
	p. F.No.3-1/2024-TS.VII	0.00	13 92 48 000.00	6 36 74 000.00	20 29 22 000.00
	q. F.No.3-1/2024-TS.VII	0.00	1 09 28 000.00	1 11 37 000.00	2 20 65 000.00
	r. F.No.3-1/2024-TS.VII	0.00	48 24 000.00	54 82 000.00	1 03 06 000.00
	s. F.No.3-1/2024-TS.VII	0.00	8 84 16 000.00	0.00	8 84 16 000.00


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Nirjuli, Arunachal Pradesh


निदेशक/ Director
नेरिस्ट (NERIST)
(बान्द्र विश्वविद्यालय, शिक्षा मंत्रालय, भारत सरकार)
Banar Hindu University MoE, Govt of India

	t. F.No.3-1/2024-TS.VII	0.00	69 01 000.00	0.00	69 01 000.00
	u. F.No.3-1/2024-TS.VII	0.00	30 83 000.00	0.00	30 83 000.00
	v. F.No.3-1/2024-TS.VII	0.00	44 00 000.00	0.00	44 00 000.00
	w. F.No.3-1/2024-TS.VII	0.00	3 52 000.00	0.00	3 52 000.00
	x. F.No.3-1/2024-TS.VII	0.00	2 48 000.00	0.00	2 48 000.00
	y. F.No.3-1/2024-TS.VII	0.00	3 50 00 000.00	0.00	3 50 00 000.00
2	Total	29 64 00 000.00	76 84 00 000.00	41 02 93 000.00	1 47 50 93 000.00
3	Amount received from HEFA	1 72 63 756.00	0.00	0.00	1 72 63 756.00
4	Amount received from TEQIP	60 00 000.00	0.00	0.00	60 00 000.00
5	Amount received from Student Welfare Fund	0.00	0.00	48 42 755.00	48 42 755.00
6	Amount received from Scholarship Account	0.00	0.00	23 94 002.22	23 94 002.22
7	Amount received from Misc. Account	0.00	0.00	4 61 849.28	4 61 849.28
8	Revenue Generation	0.00	0.00	7 58 04 270.12	7 58 04 270.12
9	Total (2+3+4+5+6+7+8+9)	31 96 63 756.00	76 84 00 000.00	49 37 95 876.62	1 58 18 59 632.62
10	Utilization of funds towards				
	a) Capital Expenditure	31 87 61 530.44	0.00	0.00	31 87 61 530.44
	b) Revenue Expenditure	0.00	76 35 00 400.00	49 09 02 103.43	1 25 44 02 503.43
11	Total 10 (a+b)	31 87 61 530.44	76 35 00 400.00	49 09 02 103.43	1 57 31 64 033.87
12	Balance (9 - 11)	9 02 225.56	48 99 600.00	28 93 773.19	86 95 598.75
13	Less Expenditure incurred from Revenue	0.00	0.00	8 35 02 876.62	0.00
14	Net Expenditure	31 87 61 530.44	76 35 00 400.00	40 73 99 226.81	1 57 31 64 033.87


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 Nirjuli, Arunachal Pradesh



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 NERIST
 (Deemed to be University, MoE, Govt of India)
 Nirjuli, Itanagar, Arunachal Pradesh - 791 109
 Nirjuli, Itanagar, Arunachal Pradesh- 791 109

SCHEDULE 12: INTEREST EARNED

Particulars		Current Year	Previous Year
1	On Savings Accounts with scheduled banks	0.00	0.00
2	On Loans		
	a. Employees/Staff		
	(i) Interest on House Building advances	0.00	0.00
	(ii) Interest on Conveyance	0.00	0.00
	b. Interest on Computer Loan	0.00	0.00
3	On Debtors and Other Receivables	0.00	0.00
Total		0.00	.00


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 Nirjuli, Itanagar, Arunachal Pradesh- 791 109

SCHEDULE 13 : OTHER INCOME

A. Income from Land & Buildings		Current Year	Previous Year
1. Guest House Room Rent		42 67 680.00	25 82 694.00
2. Building Rent		6 23 393.00	2 68 856.00
3. Electricity charges recovered		18 30 514.00	18 76 970.00
4. Water charges recovered		0.00	0.00
	Total	67 21 587.00	47 28 520.00
B Others			
1. Income from consultancy .		3 22 046.00	7 30 311.00
2. RTI fees		.00	180.00
3. Income from Royalty		0.00	0.00
4. Sale of application form (recruitment)		18 04 500.00	4 500.00
5. Misc. receipts (Sale of tender form, waste paper, etc.)			
a) Sale of Tender Paper		2 41 500.00	3 80 600.00
b) Fine			0.00
c) Misc Receipt		18 000.00	5 21 692.00
d) Auction Value on Sdcrap items		.00	5 47 523.00
6. Profit on Sale/disposal of Assets			
a) Owned assets		.00	5 486.00
b) Assets received free of cost		0.00	0.00
7. Grants/Donations from Institutions, Welfare Bodies and International Organizations		0.00	0.00
8 Others (specify)			
a) Busfare/Hire Charges		10 804.00	1 530.00
b) Project overhead charges		.00	3 91 436.00
9. Amount received from SHRISTI FD Account		2 48 653.00	.00
10. Interest earned on SHRISTI FD		17 493.00	.00
	Total	26 62 996.00	25 83 258.00
Grand Total (A+B)		93 84 583.00	73 11 778.00


 Controller of Accounts (C.A.)
 NERIST, Nipah
 Arunachal Pradesh-791100



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 Nipah, Arunachal Pradesh


 Director
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SCHEDULE 14 : PRIOR PERIOD INCOME

Particulars	Current Year	Previous Year
1 Academic Receipts	0.00	0.00
2 Income from Investments	0.00	0.00
3 Interest earned	0.00	0.00
4 Other Income	0.00	0.00
Total	0.00	0.00


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NORTH EASTERN REGIONAL INSTITUTE OF SCIENCE & TECHNOLOGY
NIRJULI :: ARUNACHAL PRADESH :: 791 109
RECEIPTS & PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2025

RECEIPT				PAYMENT			
Particulars		Current Year	Previous Year	Particulars		Current Year	Previous Year
1. Opening Balance							
a) Cash in hand		0.27	0.27	1. a) Establishment Expenses	15	71 42 23 864.00	69 66 20 529.00
b) Imprest		11 81 707.00	11 58 847.00	b) Academic Expenses	16	5 36 66 025.18	3 11 07 847.00
c) Bank Balance		28 20 86 914.13	37 08 94 460.46	c) Administrative & General Expenses	17	5 67 91 315.12	5 75 32 548.96
d) Corpus, Faculty Dev, Equip rep & Maint Fund		1 17 284.13	1 17 790.00	d) Transportation Expenses	18	51 42 412.00	39 57 404.00
e) Investment from Govt. Grant (STDR)		0.00	0.00	e) Repair & Maintenance Expenses	19	36 91 49 290.00	34 85 86 175.00
				f) Finance Cost	20	11 947.13	13 357.50
				g) Prior period expenditure	22	5 54 17 650.00	5 01 99 067.00
				2. Expenditure on fixed Assets and expenditure on capital	21	31 87 61 530.44	20 21 47 368.00
				3. Other payments	22A	5 60 22 700.00	10 80 61 211.65
				Closing Balance			
2. Grants from MoE, Govt. of India, New Delhi				a) Cash in hand		0.27	0.27
a) OH-36 (Salary)		76 84 00 000.00	72 00 00 000.00	b) Imprest		11 65 481.00	11 81 707.00
b) OH-31 (General)		41 02 93 000.00	37 94 00 000.00	c) Bank Balance		24 81 91 027.51	28 20 86 914.13
c) OH-35 (Capital)		29 64 00 000.00	20 00 00 000.00	d) Corpus, Faculty Development, Equipment repairing and Maintenance Fund Accounts		54 138.00	1 17 284.13
				4. Investment from Govt. Grant (STDR)	5	0.00	0.00
3. Academic Receipts	9	6 64 19 687.12	3 86 88 222.59	Details of Bank Balance:			
				1. SBI Savings A/c		2 28 05 163.01	
4. Interest earned on STDR with SBI/AXIS Bank etc.	12	0.00	.00	2. SBI Current A/c		9 09 90 834.81	
5. Other Income	13	93 84 583.00	73 11 778.00	3. Axis Bank		44 30 681.87	
6. Prior Period Income	14	0.00	0.00	4. Academic Account		7 09 27 658.12	
7. Any other Receipt	14A	4 45 14 205.00	6 40 40 315.32	5. NEE Account		8 819.50	
				6. Research Project Account		5 90 27 870.20	
				7. Scholarship Account		.00	
				Total		24 81 91 027.51	
TOTAL		1 87 87 97 380.65	1 78 16 11 413.64	TOTAL		1 87 87 97 380.65	1 78 16 11 413.64

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**SCHEDULES FORMING PART OF RECEIPTS AND
PAYMENT ACCOUNT**

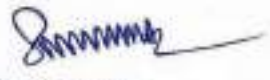
SCHEDULE 14A : ANY OTHER RECEIPTS

SL No.	Particulars	Current Year		Previous Year
		Current Year	Total	
1	Caution Money from Students			
	Caution Money from Student	44 55 000.00	44 55 000.00	55 11 928.00
2	Students Welfare Fund	.00	.00	4 50 520.00
3	Alumini Association Account	.00	.00	2 21 200.00
3	TDS on GST	88 43 356.00	88 43 356.00	63 35 334.00
4	Advances received from staff			.00
	Loans and Advance	18 66 629.00	18 66 629.00	17 01 637.00
5	Security Deposit	1 01 19 560.00	1 01 19 560.00	1 99 28 802.00
6	Project Account	6 75 000.00	6 75 000.00	1 75 368.00
7	Income Tax	60 08 047.00	60 08 047.00	13 71 982.00
8	Forest Royalty	27 30 767.00	27 30 767.00	5 47 997.00
9	DMF	8 27 886.00	8 27 886.00	6 79 403.00
10	Labour Cess	24 90 845.00	24 90 845.00	6 05 378.00
11	Interest earned on Savings Account	27 86 822.00	27 86 822.00	80 43 811.00
12	NIDM	.00	.00	1 56 000.00
13	Scholarship Account		.00	.00
14	NCC		.00	.00
15	NSD (National Skill Development)	.00	.00	7 20 000.00
16	From TEQIP A/c	.00	.00	1 441.00
17	HEFA Principle amount from canara bank		.00	.00
18	Research Project	.00	.00	1 71 27 665.04
19	Misc	37 10 293.00	37 10 293.00	4 61 849.28
20	Imprest	34 226.00	34 226.00	13 140.00
	Total	4 45 48 431.00	4 45 48 431.00	6 40 53 455.32


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SCHEDULE 15 : STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES) FOR RECEIPT AND PAYMENT ACCOUNT

	Current Year		Previous Year	
	Non Plan	Total	Non Plan	Total
a) Salaries and Wages				
i) Teaching	23 80 05 934.00	53 44 11 128.00	22 16 80 580.00	50 75 79 316.00
ii) Non-Teaching	22 33 29 567.00		22 00 65 211.00	
iii) Income Tax (Teaching)	5 62 09 286.00		4 91 66 696.00	
iv) Income Tax (Non-Teaching)	99 08 571.00		99 63 544.00	
v) EPF	69 57 770.00		67 03 285.00	
b) Contribution to Provident Fund				
i) Teaching	1 18 71 779.00	4 05 03 930.00	1 28 89 321.00	4 23 56 983.00
ii) Non-Teaching	2 86 32 151.00		2 94 67 662.00	
c) Contribution to Other Fund (NPS)				
i) Teaching	4 12 14 268.00	5 01 39 936.00	3 50 05 727.00	4 22 90 945.00
ii) Non-Teaching	89 25 668.00		72 85 218.00	
d) Retirement and Terminal Benefits				
i) Gratuity (Teaching)	77 56 241.00	7 70 35 545.00	91 34 081.00	6 58 00 153.00
ii) Gratuity (Non-Teaching)	3 81 69 704.00		3 03 83 287.00	
iii) Leave Encashment (Teaching)	1 03 14 647.00		1 21 43 297.00	
iv) Leave Encashment (Non-Teaching)	2 07 94 953.00		1 41 39 488.00	
e) LTC facility				
i) Teaching	12 63 607.00	16 05 762.00	18 82 213.00	34 72 512.00
ii) Non-Teaching	3 42 155.00		15 90 299.00	
f) Medical facility				
i) Teaching	.00	87 194.00	29 65 534.00	1 11 44 163.00
ii) Non-Teaching	87 194.00		81 78 629.00	

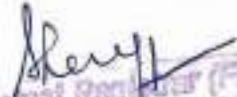

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Arunachal Pradesh-791109


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Nirjuli, Arunachal Pradesh


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i)	Children Education Allowance				
	i) Teaching	.00	.00	15 52 187.00	32 27 187.00
	ii) Non-Teaching	.00		16 75 000.00	
j)	Honorarium	1 89 43 902.00	1 89 43 902.00	86 91 455.00	86 91 455.00
k)	CPDA	20 78 075.00	20 78 075.00	27 40 281.00	27 40 281.00
l)	Medicine	.00	.00	12 50 283.00	12 50 283.00
m)	Pay and Allowances of KV NERIST	2 31 87 724.00	2 31 87 724.00	3 58 77 800.00	3 58 77 800.00
n)	CPF Institute share				
	i) Teaching	66 90 446.00	1 55 07 204.00	88 43 311.00	
	ii) Non-Teaching	88 16 758.00		1 10 69 758.00	1 99 13 069.00
	TOTAL	76 35 00 400.00	76 35 00 400.00	74 43 44 147.00	74 43 44 147.00
o)	Less prior period expenditure	4 92 76 536.00	4 92 76 536.00	4 77 23 618.00	4 77 23 618.00
	G/Total	71 42 23 864.00	71 42 23 864.00	69 66 20 529.00	69 66 20 529.00


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SCHEDULE 15 A : EMPLOYEES RETIREMENT AND TERMINAL BENEFITS

	Pension	Gratuity	Leave Encashment	Total
Opening Balance as on 01.04.2024	0.00	3 99 07 580.00	2 90 52 700.00	6 89 60 280.00
Addition : During the year	0.00	3 56 01 847.00	2 43 56 204.00	5 99 58 051.00
Total (a)	0.00	7 55 09 427.00	5 34 08 904.00	12 89 18 331.00
Less: Actual Payment during the Year 2024-25 (b)	0.00	3 99 07 580.00	2 90 52 700.00	6 89 60 280.00
Balance Available on 31.03.2025 (c) (a-b)	0.00	3 56 01 847.00	2 43 56 204.00	5 99 58 051.00
Provisions of Liabilities (2025-26)	0.00	3 56 01 847.00	2 43 56 204.00	5 99 58 051.00


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SCHEDULE 15B : STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES) FOR INCOME AND EXPENDITURE ACCOUNT

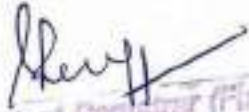
	Current Year		Previous Year	
	Non Plan	Total	Non Plan	Total
a) Salaries and Wages				
i) Teaching	23 80 05 934.00	53 44 11 128.00	22 16 80 580.00	50 75 79 316.00
ii) Non-Teaching	22 33 29 567.00		22 00 65 211.00	
iii) Income Tax (Teaching)	5 62 09 286.00		4 91 66 696.00	
iv) Income Tax (Non-Teaching)	99 08 571.00		99 63 544.00	
v) EPF	69 57 770.00		67 03 285.00	
b) Contribution to Provident Fund				
i) Teaching	1 18 71 779.00	4 05 03 930.00	1 28 89 321.00	4 23 56 983.00
ii) Non-Teaching	2 86 32 151.00		2 94 67 662.00	
c) Contribution to Other Fund (NPS)				
i) Teaching	4 12 14 268.00	5 01 39 936.00	3 50 05 727.00	4 22 90 945.00
ii) Non-Teaching	89 25 668.00		72 85 218.00	
d) Retirement and Terminal Benefits				
i) Gratuity (Teaching)	77 56 241.00	7 70 35 545.00	91 34 081.00	6 58 00 153.00
ii) Gratuity (Non-Teaching)	3 81 69 704.00		3 03 83 287.00	
iii) Leave Encashment (Teaching)	1 03 14 647.00		1 21 43 297.00	
iv) Leave Encashment (Non-Teaching)	2 07 94 953.00		1 41 39 488.00	
e) LTC facility				
i) Teaching	12 63 607.00	16 05 762.00	18 82 213.00	34 72 512.00
ii) Non-Teaching	3 42 155.00		15 90 299.00	
f) Medical facility				
i) Teaching	.00	87 194.00	29 65 534.00	1 11 44 163.00
ii) Non-Teaching	87 194.00		81 78 629.00	

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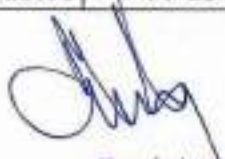
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Nirjuli, Arunachal Pradesh

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(Deemed to be University, MoE, Govt of India)

i) Children Education Allowance	.00	.00	32 27 187.00	32 27 187.00
j) Honorarium	1 89 43 902.00	1 89 43 902.00	86 91 455.00	86 91 455.00
k) CPDA	20 78 075.00	20 78 075.00	27 40 281.00	27 40 281.00
l) Medicine	.00	.00	12 50 283.00	12 50 283.00
m) Pay and Allowances of KV NERIST	2 31 87 724.00	2 31 87 724.00	3 58 77 800.00	3 58 77 800.00
n) CPF Institute share				
i) Teaching	66 90 446.00	1 55 07 204.00	88 43 311.00	1 99 13 069.00
ii) Non-Teaching	88 16 758.00		1 10 69 758.00	
TOTAL	76 35 00 400.00	76 35 00 400.00	74 43 44 147.00	74 43 44 147.00
LESS LIABILITIES DISCHARGED OF PREVIOUS YEARS	11 89 81 470.00	11 89 81 470.00	4 40 20 097.00	4 40 20 097.00
TOTAL	64 45 18 930.00	64 45 18 930.00	70 03 24 050.00	70 03 24 050.00
ADD PROVISION FOR LIABILITIES OF RETIREMENT BENEFITS 2024-25 (15A)				
a. Provision for liabilities of Retirement Benefits	5 99 58 051.00	5 99 58 051.00	6 89 60 280.00	6 89 60 280.00
b. Provision for Establishment expenses (Salary/Honorarium/CPF)	6 02 33 370.00	6 02 33 370.00	5 00 21 190.00	5 00 21 190.00
TOTAL	76 47 10 351.00	76 47 10 351.00	81 93 05 520.00	81 93 05 520.00
c. Less Prior period expenses	4 92 76 536.00	4 92 76 536.00	4 77 23 618.00	4 77 23 618.00
G/TOTAL	71 54 33 815.00	71 54 33 815.00	77 15 81 902.00	77 15 81 902.00


Assistant Registrar (Fin.)
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Arunachal Pradesh-791 109

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Nirjuli, Arunachal Pradesh


निदेशक/ Director
नेरिस्ट / NERIST
(मानद विश्वविद्यालय, शिक्षा मंत्रालय, भारत सरकार)
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Nirjuli, Itanagar, Arunachal Pradesh- 791 109

SCHEDULE 16 : ACADEMIC EXPENSES

	Current Year		Previous Year	
	Non Plan	Total	Non Plan	Total
a) Laboratory expenses				
i) Consumable Technology	41 58 447.00	1 47 53 646.00	32 83 841.00	67 46 336.00
ii) Consumable Science	1 00 04 288.00		5 21 495.00	
iii) Chemical & Glass Wares	5 90 911.00		29 41 000.00	
b) Membership Fee	48 970.00	48970.00	18 692.00	18692.00
c) Expenses on Seminars/Workshops	22 25 068.00	22 25 068.00	2 67 298.00	2 67 298.00
d) Payment to visiting faculty	0.00	0.00	0.00	0.00
e) Examination	4 39 369.00	4 39 369.00	3 33 287.00	3 33 287.00
f) Student Welfare expenses				
i) ECA	71 28 232.00	1 19 48 629.00	66 63 850.00	1 24 83 908.00
ii) Study Tour	48 20 397.00		58 20 058.00	
g) Admission expenses	3 89 930.00	3 89 930.00	6 640.00	6 640.00
h) Convocation expenses	45 09 604.90	45 09 604.90	10 98 640.00	10 98 640.00
i) T&P Expenses	12 88 588.00	12 88 588.00	2 11 940.00	211940.00
j) Stipend/means-cum-merit scholarship	1 26 60 606.00	1 26 60 606.00	86 28 615.00	86 28 615.00
k) Subscription Expenses	27 57 828.00	27 57 828.00	56 640.00	56 640.00
l) AICTE	.00	.00	55 000.00	55000.00
m) NBA	15 60 279.00	15 60 279.00	4 13 000.00	4 13 000.00
n) UBA	0.00	0.00	0.00	.00
o) NCC	4 62 115.00	4 62 115.00	3 24 880.00	3 24 880.00
p) NSS	86 697.00	86 697.00	65 000.00	65 000.00
q) Refund of Registration fees	8 89 250.00	8 89 250.00	6 12 608.72	6 12 608.72
r) Refund of Exam/ Appln/Hostel fee	2 24 025.28	2 24 025.28	46 110.00	46110.00
s) Renewal of Library Book/Journal	.00	.00	1 46 252.28	146252.28
t) Registration Fee	1 86 420.00	1 86 420.00		
TOTAL	5 44 31 025.18	5 42 44 605.18	3 15 14 847.00	3 15 14 847.00
t) Prior period expenditure	7 65 000.00	7 65 000.00	4 07 000.00	4 07 000.00
G/TOTAL	5 36 66 025.18	5 36 66 025.18	3 11 07 847.00	3 11 07 847.00


Signature
 Registrar (Fin)
 NERIST, Nirjula
 Arunachal Pradesh-791109

Signature
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 NERIST, MoE, Govt. of India
 Nirjula, Arunachal Pradesh
 (निर्जुला/ Director
 NERIST
 निर्जुला विश्वविद्यालय, शिक्षा मंत्रालय, भारत सरकार)
 Declared to be University, MoE, Govt of India)

SCHEDULE 17 : ADMINISTRATIVE AND GENERAL EXPENSES

	Current Year		Previous Year	
	Non Plan	Total	Non Plan	Total
A. Infrastructure				
a) Electricity and power	1 44 19 890.00	1 44 19 890.00	1 29 45 461.00	1 29 45 461.00
b) Water charges	.00	.00	1 48 800.00	1 48 800.00
B. Communication				
e) Postage	47 000.00	47 000.00	1 15 846.00	1 15 846.00
f) Telephone, Fax and Internet Charges				
i) Telephone	2 91 843.00	2 91 843.00	5 01 606.00	5 01 606.00
ii) Internet Charges	.00	.00	15 95 242.00	15 95 242.00
C. Others				
g) Printing and Stationery (consumption)	40 53 400.68	40 53 400.68	30 96 117.00	30 96 117.00
h) Travelling and Conveyance Expenses	71 48 744.00	71 48 744.00	64 33 813.00	64 33 813.00
i) NERIST Entrance Examination	65 39 276.00	65 39 276.00	38 55 769.00	38 55 769.00
j) Auditors Remuneration	79 250.00	79 250.00	1 33 792.00	1 33 792.00
k) Professional Charges				
i) Consultancy Charges	37 57 115.00	49 52 095.00	52 31 331.00	1 15 03 924.00
ii) Professional Fee	71 980.00		2 92 935.00	
ii) Legal Charges	11 23 000.00		59 79 658.00	
l) Advertisement and Publicity	9 65 470.44	9 65 470.44	20 82 587.96	20 82 587.96
m) Magazines/Journals/News paper	4 781.00	4 781.00	4 277.00	4 277.00
n) Other Expenses				
i) Meeting Expenses	17 05 820.00	1 90 62 019.00	15 06 364.00	1 60 36 563.00
ii) Office Expenses	1 35 78 199.00		1 07 15 199.00	
iii) Liveries and Uniforms	0.00		0.00	
iv) KV Overhead Charges	37 78 000.00		38 15 000.00	
v) ICC (Institute Innovation Council)	2 47 282.00		2 47 282.00	
TOTAL	5 78 11 051.12	5 78 11 051.12	5 84 53 797.96	5 84 53 797.96
o) Less Prior period expenditure	10 19 736.00	10 19 736.00	9 21 249.00	9 21 249.00
G/TOTAL	5 67 91 315.12	5 67 91 315.12	5 75 32 548.96	5 75 32 548.96


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SCHEDULE 17 A : ADMINISTRATIVE AND GENERAL EXPENSES FOR INCOME & EXPENDITURE ACCOUNT

NERIST Annual Accounts 2024-25

	Current Year		Previous Year	
	Non Plan	Total	Non Plan	Total
A. Infrastructure				
a) Electricity and power	1 44 19 890.00	1 44 19 890.00	1 29 45 461.00	1 29 45 461.00
b) Water charges	.00	.00	1 48 800.00	1 48 800.00
B. Communication	0.00			
e) Postage	47 000.00	47 000.00	1 15 846.00	1 15 846.00
f) Telephone, Fax and Internet Charges	0.00	.00		
i) Telephone	2 91 843.00	2 91 843.00	5 01 606.00	5 01 606.00
ii) Internet Charges	.00	.00	15 95 242.00	15 95 242.00
C. Others				
g) Printing and Stationery (consumption)	40 53 400.68	40 53 400.68	30 96 117.00	30 96 117.00
h) Travelling and Conveyance Expenses	71 48 744.00	71 48 744.00	64 33 813.00	64 33 813.00
i) NERIST Entrance Examination	65 39 276.00	65 39 276.00	38 55 769.00	38 55 769.00
j) Auditors Remuneration	79 250.00	79 250.00	1 33 792.00	1 33 792.00
k) Professional Charges	0.00		0.00	
i) Consultancy Charges	37 57 115.00	49 52 095.00	52 31 331.00	1 15 03 924.00
ii) Professional Fee	71 980.00		2 92 935.00	
ii) Legal Charges	11 23 000.00		59 79 658.00	
l) Advertisement and Publicity	9 65 470.44	9 65 470.44	20 82 587.96	20 82 587.96
m) Magazines/Journals/News paper	4 781.00	4 781.00	4 277.00	4 277.00
n) Other Expenses				
i) Meeting Expenses	17 05 820.00	1 90 62 019.00	15 06 364.00	1 60 36 563.00
ii) Office Expenses	1 35 78 199.00		1 07 15 199.00	
iii) Liveries and Uniforms	0.00		0.00	
iv) KV Overhead Charges	37 78 000.00		38 15 000.00	
v) ICC (Institute Innovation Council)	2 47 282.00		.00	
o) Add provision for Liabilities against Electricity charges of March 2025	10 78 081.00	10 78 081.00	9 98 467.00	9 98 467.00
TOTAL	5 88 89 132.12	5 88 89 132.12	5 94 52 264.96	5 94 52 264.96
p) Less liabilities of previous year discharge	9 98 467.00	9 98 467.00	.00	.00
q) Less prior period Income	10 19 736.00	10 19 736.00	9 21 249.00	9 21 249.00
G/TOTAL	5 68 70 929.12	5 68 70 929.12	5 85 31 015.96	5 85 31 015.96

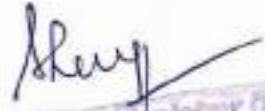
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West Bengal-791100

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Nirjula

SCHEDULE 18 : TRANSPORTATION EXPENSES

Particulars	Current Year		Previous Year	
	Non Plan	Total	Non Plan	Total
1 Vehicles (owned by institution)				
a) Running expenses	36 27 781.00	36 27 781.00	27 17 618.00	27 17 618.00
b) Repairs & maintenance	5 49 101.00	5 49 101.00	6 62 325.00	6 62 325.00
c) Insurance/Road Tax expenses	3 51 030.00	3 51 030.00	2 04 715.00	2 04 715.00
2 Vehicles taken on rent/lease				
a) Rent/lease expenses	6 14 500.00	6 14 500.00	3 72 746.00	372746.00
TOTAL	51 42 412.00	51 42 412.00	39 57 404.00	39 57 404.00


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 Itanagar, Arunachal Pradesh- 791 109

SCHEDULE 19 : REPAIRS & MAINTENANCE

Particulars	Current Year		Previous Year	
	Non Plan	Total	Non Plan	Total
a) Buildings				
i) Civil Maintenance	27 04 87 386.00	29 07 78 613.00	29 46 12 213.00	30 52 08 595.00
ii) Electrical Maintenance	2 02 91 227.00		1 05 96 382.00	
b) Furniture & Fixtures	.00	0.00	.00	.00
c) Plant & Machinery	1 58 440.00	1 58 440.00	11 32 908.00	11 32 908.00
d) Office Equipment	6 62 137.00	6 62 137.00	1 10 745.00	1 10 745.00
e) Computers	9 05 440.00	9 05 440.00	89 540.00	89 540.00
f) Maintenance/AMC/Renewal of Software	2 23 84 137.00	2 23 84 137.00	49 18 164.00	49 18 164.00
g) Laboratory & Scientific equipment	4 24 462.00	4 24 462.00	4 19 676.00	4 19 676.00
h) Audio Visual equipment	11 29 031.00	11 29 031.00	0.00	.00
i) Cleaning Material & Services	2 92 76 059.00	2 92 76 059.00	1 15 89 048.00	1 15 89 048.00
j) LAN/WAN	1 14 759.00	1 14 759.00	35 000.00	35 000.00
k) Agri/Horti/Gardening	1 23 130.00	1 23 130.00	14 65 800.00	14 65 800.00
l) Estate Maintenance				
i) Guest House	.00	.00	6 23 730.00	11 51 225.00
ii) Director Bungalow	.00		2 78 515.00	
iii) Fire extinguisher	.00		2 48 980.00	
m) Campus Security (Outsourcing)	1 77 34 849.00	1 77 34 849.00	1 67 34 963.00	1 67 34 963.00
n) Outsourcing Wages	98 14 611.00	98 14 611.00	40 80 628.00	40 80 628.00
o) Maintenance /upgradation - EPABX	.00	.00	27 97 083.00	27 97 083.00
TOTAL	37 35 05 668.00	37 35 05 668.00	34 97 33 375.00	34 97 33 375.00
p) Less prior period expenditure	43 56 378.00	43 56 378.00	11 47 200.00	11 47 200.00
G/TOTAL	36 91 49 290.00	36 91 49 290.00	34 85 86 175.00	34 85 86 175.00


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 Nirjuli, Arunachal Pradesh


 Director
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 (Deemed to be University, MoE, Govt of India)

SCHEDULE 19 A : REPAIRS & MAINTENANCE FOR INCOME & EXPENDITURE ACCOUNT

Particulars	Current Year		Previous Year	
	Non Plan	Total	Non Plan	Total
a) Buildings				
i) Civil Maintenance	27 04 87 386.00	29 07 78 613.00	29 46 12 213.00	30 52 08 595.00
ii) Electrical Maintenance	2 02 91 227.00		1 05 96 382.00	
b) Furniture & Fixtures	0.00	0.00	0.00	.00
c) Plant & Machinery	1 58 440.00	1 58 440.00	11 32 908.00	11 32 908.00
d) Office Equipment	6 62 137.00	6 62 137.00	1 10 745.00	1 10 745.00
e) Computers	9 05 440.00	9 05 440.00	89 540.00	89 540.00
f) Maintenance/ AMC/ Renewal of Software	2 23 84 137.00	2 23 84 137.00	49 18 164.00	49 18 164.00
g) Laboratory & Scientific equipment	4 24 462.00	4 24 462.00	4 19 676.00	419676.00
h) Audio Visual equipment	11 29 031.00	11 29 031.00	0.00	.00
i) Cleaning Material & Services	2 92 76 059.00	2 92 76 059.00	1 15 89 048.00	1 15 89 048.00
j) LAN/WAN	1 14 759.00	1 14 759.00	35 000.00	35 000.00
k) Agri/Horti/Gardening	1 23 130.00	1 23 130.00	14 65 800.00	14 65 800.00
l) Estate Maintenance				
i) Guest House	.00	.00	6 23 730.00	11 51 225.00
ii) Director Bungalow	.00		2 78 515.00	
iii) Fire extinguisher	.00		2 48 980.00	
m) Campus Security (Outsourcing)	1 77 34 849.00	1 77 34 849.00	1 67 34 963.00	1 67 34 963.00
n) Outsourcing Wages	98 14 611.00	98 14 611.00	40 80 628.00	40 80 628.00
o) Maintenance /upgradation - EPABX	.00	.00	27 97 083.00	27 97 083.00
p) Add provision for liabilities	41 70 923.00	41 70 923.00	26 46 949.00	26 46 949.00
TOTAL	37 76 76 591.00	37 76 76 591.00	35 23 80 324.00	35 23 80 324.00
q) Less liabilities for previous year discharge	26 46 949.00	26 46 949.00	.00	.00
r) Less Prior Period Expenditure	43 56 378.00	43 56 378.00	11 47 200.00	11 47 200.00
G/TOTAL	37 06 73 264.00	37 06 73 264.00	35 12 33 124.00	35 12 33 124.00

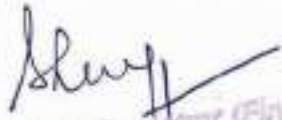
Registrar (Fin.)
NERIST, Nirjuli

Registrar
M&E Govt. of India

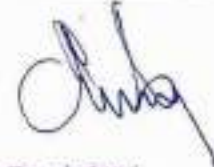
Director
नेरिस्ट / NERIST


SCHEDULE 20 : FINANCE COSTS

Particulars	Current Year		Previous Year	
	Non Plan	Total	Non Plan	Total
a) Bank charges	10 000.50	10 000.50	9 469.50	9 469.50
b) Bank charges on TEQIP Account	1 947.13	1 947.13	3 888.00	3888.00
TOTAL	11 947.63	11 947.63	13 357.50	13 357.50


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SCHEDULE 21 : EXPENDITURE ON FIXED ASSETS AND CAPITAL WORKS IN PROGRESS

Particulars	Current Year		Previous Year	
	Plan	Total	Plan	Total
1 Furniture	1 75 09 634.00	1 75 09 634.00	42 95 050.00	42 95 050.00
2 Library Books/ Journals				
a) Books	12 83 508.00	65 13 739.44	0.00	.00
b) Journals	52 30 231.44		0.00	
c) Digital Library	0.00		0.00	
3 Expenditure on Equipments				
a) Office Equipments	60 40 548.00	60 40 548.00	18 66 431.00	18 66 431.00
b) Lab Equipment/Others		3 00 06 032.00		49 85 266.00
i) Agril Engineering	35 92 177.00		0.00	
ii) Computer Science	39 83 066.00		0.00	
iii) Elect Engineering	13 32 684.00		11 17 306.00	
iv) Civil Engineering	7 99 300.00		0.00	
v) Mech. Engineering	1 31 18 699.00		29 088.00	
vi) Forestry	0.00		0.00	
vii) Elect & Commu Engineering			37 16 722.00	
viii) Chemistry	5 37 009.00		0.00	
ix) Physics	0.00		0.00	
x) Horticulture	.00		1 22 150.00	
xi) Audio Visual Equipments	66 43 097.00	0.00		
4. Capital works in progress/ completed				
a) C/o Permanent Admn Building	0.00	15 25 80 632.00	0.00	16 92 39 740.00
b) C/o Silver Jubilee Hall - Phase-II	0.00		0.00	
c) C/o Central Workshop	0.00		0.00	
d) C/o 500 Capacity Girls Hostel	6 00 00 000.00		5 00 00 000.00	
e) C/o Sitting Gallery of General Ground	0.00		0.00	
f) Site Development and Construction of Boundary wall	1 30 10 888.00		2 73 08 318.00	
g) C/o Multipurpose Auditorium	.00		1 54 50 560.00	
h) C/o NERIST Health Unit (NHU)	50 00 000.00		1 50 50 260.00	
i) C/o Water Treatment Plant	80 69 744.00		50 00 000.00	

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 Director (Fin)
 NERIST, Niruli
 Anupanchal Pradesh-751100


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 Registrar

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 Director
 NERIST

j) C/o 50 Bedded Hostel	65 00 000.00		0.00	
k) C/o Utility Centre	.00		29 85 472.00	
l) C/o Examination & Seminar Hall	1 50 00 000.00		0.00	
m) C/o 1000 beded Capacity Boys hostel	2 50 00 000.00		5 00 00 000.00	
n) Upgradation of 11kVA to 33kVA Transmission Line	2 00 00 000.00		34 45 130.00	
o) C/o of Multipurpose Hall	5 44 98 967.00	5 44 98 967.00		
p) C/o Toilet	24 47 438.00	24 47 438.00		
5. Computer and Peripherals	78 94 123.00	78 94 123.00	20 93 000.00	20 93 000.00
6. DG Set	.00	.00	33 250.00	33 250.00
7. EPABX	.00	.00	4 63 240.00	4 63 240.00
8. C/o Ramp at Academic Building	.00	.00	53 34 994.00	53 34 994.00
9. LAN/WAN	85 24 026.00	85 24 026.00	18 37 343.00	18 37 343.00
10. Sports/Gymkhana items	.00	.00	4 37 680.00	4 37 680.00
11. Electrical Items & Installation	7 98 900.00	7 98 900.00	29 250.00	29 250.00
12. Installation of CCTV	1 29 350.00	1 29 350.00	27 31 943.00	27 31 943.00
13. High Post Nation Flag	.00	.00	41 62 804.00	41 62 804.00
14. Plant & Machinery	1 28 50 037.00	1 28 50 037.00	27 67 844.00	27 67 844.00
15. Software	.00	.00	18 69 533.00	18 69 533.00
16. Procurement of Vehicle (Ambulance)	16 45 540.00	16 45 540.00		
17. C/o Dustbin	22 06 869.00	22 06 869.00		
18. Interior Work in Permanet Admin Block	80 48 069.00	80 48 069.00		
19. Cable Trenching	70 67 626.00	70 67 626.00		
TOTAL	31 87 61 530.44	31 87 61 530.44	20 21 47 368.00	20 21 47 368.00


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 नेरिस्ट / NERIST
 (समस्त विश्वविद्यालय, शिक्षा विभाग, भारत सरकार)
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 Nirjuli, Itanagar, Arunachal Pradesh-791 109

SCHEDULE 22 : Prior Period Expenses

Particulars	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Establishment expenses	0.00	4 92 76 536.00	4 92 76 536.00	0.00	4 77 23 618.00	4 77 23 618.00
2 Academic expenses	0.00	7 65 000.00	7 65 000.00	0.00	4 07 000.00	4 07 000.00
3 Administrative expenses	0.00	10 19 736.00	10 19 736.00	0.00	9 21 249.00	9 21 249.00
4 Transportation expenses	0.00	0.00	0.00	0.00	0.00	0.00
5 Repairs & Maintenance	0.00	43 56 378.00	43 56 378.00	0.00	11 47 200.00	11 47 200.00
6 Othe expenses	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	5 54 17 650.00	5 54 17 650.00	0.00	5 01 99 067.00	5 01 99 067.00


 Assistant Registrar (Fin.)
 NERIST, Nirjuli
 Arunachal Pradesh-791109


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 Registrar
 NERIST, MoE, Govt. of India
 Nirjuli, Arunachal Pradesh


 निदेशक/ Director
 नेरिस्ट / NERIST
 (मानद विश्वविद्यालय, शिक्षा विभाग, भारत सरकार)
 (Deemed to be University, MoE, Govt of India)
 निरजुली, इटानगर, अरुणाचल प्रदेश - 791 109
 Nirjuli, Itanagar, Arunachal Pradesh- 791 109

SCHEDULE 22A : OTHER EXPENSES

Particulars	Current Year	Previous Year
a) Caution Money of Students	50 49 975.00	39 09 865.00
b) Loans and Advance	9 01 100.00	30 49 800.00
c) Project Account	4 62 908.00	0.00
d) Security Deposits	2 04 64 000.00	5 29 29 524.00
e) Income Tax	59 63 949.00	13 73 182.00
f) Labour Cess	24 90 845.00	6 05 378.00
g) Forest Royalty	27 60 657.00	5 47 997.00
h) DMFT	10 24 560.00	20 73 723.00
i) TDS on GST	88 35 895.00	61 04 720.00
j) EMD	25 000.00	50 000.00
k) NIDM	0.00	0.00
L) Imprest	2 18 000.00	36 000.00
m) Interest refund to MoE	80 43 811.00	1 26 16 597.00
n) Expenses on Teqip Account	.00	1 946.87
o) Scholarship Account	.00	649.00
p) Research Project	.00	2 47 97 829.78
TOTAL	5 62 40 700.00	10 80 97 211.65


 Assistant Registrar (Fin.)
 NERIST, Nirjuli
 Arunachal Pradesh-791109


 Registrar
 NERIST
 NERIST, MoE, Govt. of India
 Nirjuli, Arunachal Pradesh
 निर्देशक (नैटिस्ट) / NERIST
 निर्देशक (नैटिस्ट) / NERIST
 निर्देशक (नैटिस्ट) / NERIST
 निर्देशक (नैटिस्ट) / NERIST

SCHEDULE: 23**SIGNIFICANT ACCOUNTING POLICIES (ILLUSTRATIVE)****1. BASIS FOR PREPARATION OF ACCOUNTS**

The accounts are prepared under the Historical Cost Convention unless otherwise stated and generally on the Accrual method of accounting.

2. FORMAT OF ACCOUNTS

The accounts of the Institute for the year 2024-25 has been prepared on the basis of revised format of accounts to educational institution prescribed by Govt. of India, Ministry of Education, Govt. of India.

3. REVENUE RECOGNITION


3.1 The Institute is funded by the Ministry of Education (MoE), Govt. of India. The government releases the Grant under three major heads i.e. OH-31(General), OH-35(Capital) & OH-36 (Salary). Grants from Government of India is accounted for in the same financial year for which it is sanctioned by the MoE, Government of India.


3.2 The major sources for Internal Revenue Generation (IRG) are various fees realized from students (Collected during academic year), sale of application form and prospectus, interest earned on investments and other miscellaneous income.

4. FIXED ASSETS AND DEPRECIATION

4.1 Fixed assets are stated at cost of acquisition including inward freight, duties and taxes and incidental and direct expenses related to acquisition, installation and commissioning.

4.2 Gifted/Donated assets are valued at the declared value where available; if not available, the value is estimated based on the present market value adjusted with reference to the physical condition of the asset. They are set-up by credit to Capital Fund and merged with the Fixed Assets of the Institution. Depreciation is charged at the rates applicable to the respective assets.


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Arunachal Pradesh-791109


Registrar
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Nirjuli, Arunachal Pradesh


निदेशक/ Director
नेरिस्ट /NERIST
(मानेद विश्वविद्यालय, शिक्षा मंत्रालय, भारत सरकार)
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4.3 Fixed assets are valued at cost less accumulated depreciation. Depreciation on fixed assets is provided at the following rates:

Tangible Assets:


1. Land	0%
2. Site Development	0%
3. Buildings	2%
4. Roads & Bridges	2%
5. Tube wells & Water Supply	2%
6. Sewerage & 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%


4.4. Depreciation is provided for the whole year with additions during the year.

4.5. Assets created out of Earmarked Funds and funds of Sponsored Projects, where the ownership of such asset's vests in the Institution, are setup by credit to Capital Fund and merged with the Fixed Assets of the Institution. Depreciation is charged at the rates applicable to the respective assets. Assets created out of Sponsored Project funds, where the ownership is retained by the sponsors but held and used by the Institution are separately disclosed in the Notes on Accounts.

4.6. No depreciation charged on land and capital works in progress.


Assistant Registrar (Fin.)
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Arunachal Pradesh


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Nirjuli, Itanagar, Arunachal Pradesh- 791 109

5. ENDOWMENT FUNDS

Endowments are funds received from various individual donors, Trusts and other organizations, for establishing Chairs and for Medals & Prizes, as specified by the Donors. While each of the Endowment funds has its own investment there is one savings Bank Account for all the Endowment funds, as the uninvested balances against them are negligible.

The income from investment of each Endowment Fund is added to the Fund. The interest on Savings Bank a/c is allocated to all the Endowment funds in the ratio of the year end closing balances in each fund. The expenditure on Medals & Prizes is met from the interest earned on investment of the respective Endowment Funds and the balance is carried forward. In respect of Chairs, however, the corpus of the Endowment is also used.

The balances are represented by Investment in RBI Bonds and Fixed Deposits and balance in the Saving Bank Account common for all Endowments, and Accrued Interest on Investments.

6. GOVERNMENT GRANTS

- 5.1. To the extent utilized towards capital expenditure, (on accrual basis) government grants are transferred to the Capital Fund.
- 5.2. Government grants for meeting Revenue Expenditure (on accrual basis) are treated, to the extent utilized, as income of the year in which they are realized.
- 5.3. Unutilized grants are carried forward and exhibited as a liability in the Balance Sheet.

7. SPONSORED PROJECTS

In respect of ongoing Sponsored Projects, the amounts received from sponsors are credited to the head "Current Liabilities and Provisions -Current Liabilities -Other Liabilities -Receipts 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.


Assistant Registrar (Fin.)
NERIST, Nijuli
Arunachal Pradesh-791109


Registrar
NERIST, MoE, Govt. of India
Nijuli, Arunachal Pradesh


निदेशक / Director
नेरिस्ट / NERIST
विश्वविद्यालय, शिक्षा विभाग, भारत सरकार
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निजुली, ईटानगर, अरुणाचल प्रदेश - 791 109

8 INCOME TAX

The income of the Institution is exempt from Income Tax under Section 10(23c) of the Income Tax Act. No provision for tax is therefore made in the accounts.

9 SCHEDULES

- Balance Sheet Account has been compiled from Schedule-1 to Schedule-8.
- Income and Expenditure Account has been compiled from Schedule-9, 12, 13, 15 to 20.
- Receipt and Payment Account has been compiled from Schedule 9, 12 to 22A.
- Utilized and Unutilized Govt. Grants reflected in Schedule-10.
- An amount of ₹,60,00,000.00 (Rupees sixty lakh) against Corpus fund/Faculty Development fund, equipment repairing fund and maintenance fund has been transferred to OH-35 under Schedule-10 for utilization.

10 BUDGET PROVISION AND EXPENDITURE

- Budget provision and expenditure as under in r/o NERIST as per Receipt and Payment Account during 2024-25.

(₹. in lakh)

Year	Budget Provision	Opening balance	Grants received	Other receipt	Total (3+4+5)	Expenditure incurred	Closing balance (6-7)
1	2	3	4	5	6	7	8
2024-25	25180.00	2833.86	14750.93	1203.18	18787.97	16291.86	2496.11


Assistant Registrar (Fin.)
NERIST, Nirjuli
Arunachal Pradesh-791109


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SCHEDULE : 24**CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS (ILLUSTRATIVE)****1. FIXED ASSETS:**

- 1.1 Additions in the year to Fixed Assets in Schedule-4 include Assets purchased out of Plan Funds (₹.318761530.44), value of free land donated by Govt. of Arunachal Pradesh (₹.Nil) & Non-Plan Funds (₹.Nil). The Assets have been set up by credit to Capital Fund.
- 1.2 In the Balance Sheet as on 31.03.2025 and the Balance Sheets of earlier years, Fixed Assets created out of Plan funds were exhibited distinctly. The additions during the years 2024-25, from plan fund the depreciation on those additions respectively have been exhibited distinctly in Sub Schedules to the main schedule of Fixed Assets (Schedule 4)
- 1.3 Fixed assets as set out in Schedule 4 do not include assets purchased out of funds of sponsored projects, held and used by the Institution, as project contracts include stipulations that all such assets purchased out of projects funds will remain the property of the sponsors.

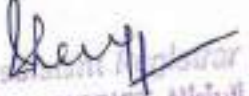
2. EXPENDITURE IN FOREIGN CURRENCY:


a. Travel	Nil
b. Foreign Drafts for import of chemicals etc c.	Nil
c. Others.	Nil

3. 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 at least to the aggregate amount shown in the Balance Sheet.

4. The details of balances in Saving Bank Accounts, Current Accounts with Banks are enclosed as attachment 'A' to the Schedule of Current Assets (Schedule-7).
5. Schedules I to 24 are annexed to and form an integral part of the Balance Sheet at 31st March 2025 and the Income & Expenditure account for the year ended on that date.


 Assistant Director (Fin.)
 NERIST, Nirjuli
 Arunachal Pradesh-791108


 Registrar
 NERIST, MoE, Govt. of India
 Nirjuli, Arunachal Pradesh


 निदेशक/ Director
 नेरिस्ट / NERIST
 (मानद विश्वविद्यालय, शिक्षा मंत्रालय, भारत सरकार)
 Nirjuli, MoE, Govt of India

6. GENERAL

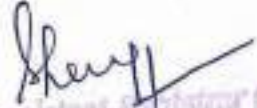
(a). Name of the Head of the Institute during 2024-25

Sl No.	Head of Institute	From	To
1.	Prof. Narendranath S	31.03.2024	31.03.2025


(b). Name of the D.D.O. of the Institute during 2024-25


Sl. No	Name of the D.D.O.	From	To
1.	Dr. M.K Camder, Registrar & DDO	31.03.2024	31.03.2025
2.	Shri Toko Shama, Assistant Registrar (Fin) & Jt. DDO	31.03.2024	31.03.2025
3.	Mrs. Anjana Adhikari, SO (Fin) & Jt. DDO	31.03.2024	31.03.2025

7. a) No of Under Graduate students as on 31.03.2025 -- 1944 nos
 b) No of Post Graduate students as on 31.03.2025 -- 379 nos
 c) No of Ph.D students as on 31.03.2025 -- 218 nos
 Total 2541 nos
 =====
8. a) No of teaching employees as on 31.03.2025 -- 149 nos
 b) No of non-teaching employees as on 31.03.2025 -- 205 nos


 Assistant Registrar (Fin.)
 NERIST, Nirjuli
 Arunachal Pradesh-791109

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 Registrar
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 Nirjuli, Arunachal Pradesh


 निदेशक / Director
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 Nirjuli, Itanagar, Arunachal Pradesh- 791 109



CONFIDENTIAL

No: AG(AP)/CAW/SAR/NERIST/7-4/2025-26/ 3072

Dated: 28.11.2025

To

Director,
North Eastern Regional Institute of Science & Technology,
Arunachal Pradesh, Nirjuli - 791 109.

Sub: *Separate Audit Report on the Accounts of the North Eastern Regional Institute of Science & Technology (NERIST), Arunachal Pradesh, Nirjuli for the year 2024-25.*

Sir,

Please find enclosed the *Separate Audit Report on the Accounts of the North Eastern Regional Institute of Science & Technology (NERIST), Arunachal Pradesh, Nirjuli for the year 2024-25* for your necessary action. You are requested to make necessary arrangements for translation of the same into Hindi version and for printing the requisite number of copies, along with the Annual Accounts. Submission of the Report to the Ministry of Education, Government of India, may also be ensured.

Further, while printing the Separate Audit Report in the Hindi version, the following disclaimer should be inserted positively:

--प्रस्तुत प्रतिवेदन मूल रूप से अंग्रेजी में लिखित पृथक लेखापरीक्षा प्रतिवेदन का हिन्दी अनुवाद है। यदि इसमें कोई विसंगति परिलक्षित होती है तो अंग्रेजी में लिखित प्रतिवेदन मान्य होगा।--

Kindly ensure that the previous year's Report is placed in Parliament before placement of the current Report. The date of placement of the said Reports before the Parliament may be intimated to this office. A copy of the Audit Report may also be sent to this office.

The Separate Audit Report may be treated as **CONFIDENTIAL** till it is placed before both Houses of Parliament.

Encl: As stated.

Yours faithfully,

Principal Accountant General



No: AG(AP)/CAW/SAR/NERIST/7-4/2025-26/3073

Dated: 28.11.2025

To,

Director,
North Eastern Regional Institute of Science & Technology
Nirjuli- 791109, Arunachal Pradesh

Sub: *Management Letter on the Comments of Annual Accounts of North Eastern Regional Institute of Science & Technology (NERIST) for the year 2024-25.*

Sir,

I am to state that the comment cited below on the Annual Accounts of NERIST as on 31 March 2025 is forwarded herewith for necessary action and compliance: -

Balance Sheet

Fixed Asset (Schedule-4): ₹ 368.61 crore

1. Capital works in progress: ₹ 180.25 crore

The Institute constructed Water Treatment Plant at a cost of ₹ 8.20 crore which was completed during 2023-24. The Institute however had capitalized only ₹ 1.30 crore and ₹ 6.90 crore has been booked under 'Capital Works in Progress'. Non-capitalisation of Water Treatment Plant had resulted in understatement of 'Fixed Asset' by ₹ 6.62 crore (₹ 6.90 crore depreciation ₹ 0.28 crore for 2 years) with corresponding overstatement of 'Capital Works in Progress' by ₹ 6.90 crore and Corpus/Capital fund by ₹ 0.28 crore. Non-capitalisation of the Asset has been commented in SAR on accounts for the year 2023-24 and the Institute had replied that it had noted for future compliance last year, however, the Institute has not yet capitalised the full amount of the above asset in the books of accounts this year also.

2. Cable Trenching: ₹ 0.71 crore

Institute carried out cable trenching work during 2023-24 under expenditure head repair & maintenance at the total cost of ₹1.41 crore and the work was completed in February 2024. Due to fund constrain the Institute could release only ₹ 0.70 crore in 2023-24 and remaining amount of ₹0.71 crore was paid in 2024-25. The Institute charged expenditure of ₹ 0.70 crore paid in 2023-24 under repair and maintenance (Revenue) and ₹ 0.71 crore paid in 2024-25 was booked under fixed asset (cable trenching). Thus, partial capitalization of cable trenching had resulted in understatement of 'Fixed Asset' by ₹ 0.63 crore (₹ 0.70 crore – depreciation ₹ 0.07 crore for 2 years)with corresponding understatement of Corpus by the same amount. Non-capitalisation of the Asset has been commented in SAR on accounts for the

year 2023-24 and the Institute had replied that it had noted for future compliance last year. however, the Institute has not yet capitalised the full amount of the above asset in the books of accounts of this year also.

3. Upgradation of 11 KVA to 33 KVA Transmission Line: ₹ 2.00 crore

The work upgradation of 11 KVA to 33 KVA transmission line at the total cost of ₹ 7.85 crore was awarded (2022-23) by the Institute to the Executive Engineer, Naharlagan Electrical Division and during 2024-25 an amount of ₹ 2.00 crore was paid as part payment. The work is in progress but an amount of ₹ 2.00 crore was wrongly capitalized and depreciation of ₹ 10.00 lakh charged during 2024-25. This had resulted in overstatement of net 'Fixed Asset' by ₹1.90 crore and depreciation for the year by ₹ 10.00 lakh with corresponding understatement of 'Capital work in Progress' by ₹ 2.00 crore.

The above comment needs to be rectified while preparing the accounts for the ensuing year.

Yours faithfully,


Sr. Deputy Accountant General (Audit)



SEPARATE AUDIT REPORT

OF THE

**COMPTROLLER AND AUDITOR GENERAL
OF INDIA**

ON THE ACCOUNTS OF

**NORTH EASTERN REGIONAL INSTITUTE
OF SCIENCE & TECHNOLOGY (NERIST),
ARUNACHAL PRADESH, NIRJULI**

ARUNACHAL PRADESH



FOR THE YEAR ENDED
31 MARCH 2025

Opinion of the Comptroller & Auditor General of India on the Accounts of North Eastern Regional Institute of Science & Technology, Arunachal Pradesh for the year ended 31 March 2025.

Opinion

We have audited the financial statements of North Eastern Regional Institute of Science & Technology, Arunachal Pradesh, which comprise the statement of financial position as at 31 March 2025 and the Income & Expenditure Account/Receipts & Payment Account for the year then ended, and notes to the financial statements, including a summary of significant accounting policies under Section 20(1) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with Rule 31 (ii) of the Memorandum of Association and Rules of the Institute. The audit has been entrusted for the period up to 2026-27.

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

In our opinion the accompanying financial statements of North Eastern Regional Institute of Science & Technology, Arunachal Pradesh, read together with the accounting policies and Notes thereon and matters mentioned in the Separate Audit Report, which follows, give a true and fair view of the financial position of the autonomous body as at March 31, 2025, and (of) its financial performance and its cash flows for the year then ended in accordance with uniform format of accounts approved by the Ministry of Human Resource Development, Government of India dated 17 April 2015/ accounting standards generally accepted in India.

Basis for Opinion

We conducted our audit in accordance with the CAG's auditing regulations/standards manuals/guidelines/guidance-notes/orders/circulars etc. Our responsibilities are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the autonomous body in accordance with ethical requirements that are relevant to our audit of the financial statements, and we have fulfilled our other ethical

responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management for the financial statements

The Board of Management of North Eastern Regional Institute of Science & Technology, Arunachal Pradesh is responsible for the preparation and fair presentation of the financial statements in accordance with uniform format of accounts approved by the Ministry of Human Resource Development, Government of India dated 17 April 2015/ accounting standards generally accepted in India, and for internal control as management determines it necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement whether due to fraud or error and to issue an auditor's report that includes our opinion in accordance with CAG's auditing regulations standards/ manuals/ guidelines/ guidance-notes/ orders/ circulars etc

For and on behalf of the CAG of India



Principal Accountant General

Place: Itanagar

Date: 28 November 2025

Separate Audit Report on the Accounts of North Eastern Regional Institute of Science & Technology, Arunachal Pradesh

A. Balance Sheet

Fixed Asset (Schedule-4): ₹ 368.61 crore

I. Capital works in progress: ₹ 180.25 crore

The above includes ₹ 34.16 crore being the cost of Permanent Administrative Building (PAB) which was completed and occupied during 2023-24 but not capitalized. As on 31 March 2025, the Institute had paid only ₹ 34.16 crore due to insufficient fund. However, no liability was made in Accounts for balance payment of ₹ 1.00 crore.

Non-capitalisation of PAB has resulted in understatement of the 'Fixed Asset' by ₹ 33.75 crore (₹ 35.16 crore – depreciation ₹ 1.41 crore for 2 years) with corresponding overstatement of 'Capital Works-in-Progress' by ₹ 34.16 crore and Corpus/Capital fund by ₹ 1.41 crore and understatement of 'Current Liabilities and Provision' against unpaid amount by ₹ 1.00 Crore. The same has been commented in SAR on Account for the year 2023-24 and the Institute had replied that the amount incurred under PAB would be reflected in "Fixed Assets" in the next annual accounts, however, the Institute has not yet capitalised the above asset in the books of accounts this year also.

B. Profit & Loss Account/Income and Expenditure Account

Expenditure

Depreciation (Schedule- 4): ₹ 146.93 crore

As per Accounting Standard 10, when the life of an Asset becomes nil, the residual value of the Asset is disclosed at ₹ 1/- in the accounts. As on 31 March 2025, the gross value of assets - Vehicles and Library Books/Journals was ₹ 9.75 crore (Vehicles- ₹ 1.82 crore + Books/Journals- ₹ 7.93 crore respectively) and the accumulated depreciation of the same was ₹ 10.61 crore (₹ 1.86 crore + ₹ 8.75 crore respectively). During the previous year (2023-24), the assets should have been fully depreciated leaving a residual value of ₹1, however, excess depreciation of ₹0.86 crore (₹10.61 crore - ₹ 9.75 crore) was charged during the year (2024-25) showing negative net value of the asset by the same amount.

Thus, wrong accounting of depreciation has resulted in overstatement of 'Depreciation' by ₹ 0.86 crore as well as 'Deficit' by the same amount. Conversely, the 'Corpus/Capital' fund and net block of 'Fixed Assets' was understated by ₹ 0.86 crore.

C. General

- i. The Institute had incorrectly classified expenditure of ₹ 0.90 crore incurred against Maintenance/Renewal of Software and had booked the expenditure under Academic expenses- Laboratory expenses.
- ii. The Institute has not made specific disclosure on revenue recognition regarding tuition fees. This comment was raised last year also, however, despite assurance given last year, the same has not yet been complied by the Institute this year also.
- iii. Method adopted for Depreciation was not disclosed in Notes to Accounts. This comment was raised last year also, however, despite assurance given last year, the same has not yet been complied by the Institute this year also. The institute is required to follow approved format in this regard.
- iv. There is no policy regarding provisioning for retirement benefits in the Notes to Accounts of the Institute. Provisions for retirement benefits of the staffs were not made on actuarial basis despite this being pointed in previous years SARs also. The Institute is required to follow approved format of accounts and AS 15 in order to create provision for retirement benefits for its employees and give detailed disclosure in notes to accounts as required by AS-15.
- v. The R&P Account, Income & Expenditure Account and Balance sheet of Provident Fund and NPS were not prepared and attached with the Annual Accounts. The Institute is required to follow the approved format in this regard. Further, the above was not complied by the Institute despite assurance given last year.
- vi. The Institute was charging the consultancy fees paid for projects to Income & Expenditure Account (under Administrative & General Expenses) instead of capitalizing it to concerned project. The consultancy fees paid for specific project are part of the cost of Asset and therefore should be capitalized to the concerned Assets. However, as per the records made available, the above has not been rectified in the books of accounts this year also despite assurance given last year.

D. Management Letter

Deficiencies which have not been included in this Separate Audit Report have been brought to the notice of the Management through a Management Letter issued separately for remedial/corrective action.

E. Assessment of Internal Controls

(i) Adequacy of Internal Control System:

The internal control system is found to be inadequate due to the following reasons:

- i) The Institute has no internal audit manual and no internal audit was conducted during the period 2024-25.
- ii) The Institute did not maintain fixed assets register and no physical verification of fixed assets and inventories/stores was conducted during the period 2024-25.

(ii) Adequacy of Internal Audit System:

Internal Audit has not been conducted during the period 2024-25.

(iii) System of Physical verification of fixed assets:

Physical verification of assets were not conducted during the year 2024-25.

(iv) System of Physical verification of inventory:

Physical verification of inventories were not conducted during the year 2024-25.

(v) Regularity in payment of statutory dues:

No irregularity was noticed in payment of statutory dues..

F. Grants in aid

Out of the total grants in aid of ₹ 155.00 crore (opening balance of ₹5.19 crore + other source ₹2.32 crore+ Grant received during the year 2024-25 ₹147.50 crore) during the year, the organization could utilize a sum of ₹ 148.96 crore leaving a balance of ₹ 6.05 crore as unutilized grant as on 31 March 2025.