

ANNUAL REPORT 2023-24

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND

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I am delighted to present the Annual Report and Audited Statement of Accounts for the National Institute of Technology, Uttarakhand, for the financial year 2023-24. This report highlights the remarkable achievements of the Institute accomplished throughout the year. I am delighted to share that our institute continues to climb the ladder of success. The National Institute of Technology Uttarakhand has soared new heights, evident in the notable improvements from an overall score 37.76 (Rank 131) in 2022 to a commendable 40.48 in 2023 (Rank Band – 101- 150). Our institute has gathered significant recognitions, being acknowledged as "India's Best Engineering Institute" with a AAAA (4A) rating by Careers 360 as well as secured the 21st position in India Today's ranking 2023. This achievement is

a testament of the relentless efforts of our faculty, staff, and students.

In the academic year 2023-24, the Institute reached significant milestones, where we enrolled a total of 570 undergraduate students, 28 postgraduate students, and supported the academic pursuits of 157 Ph.D. scholars. Our commitment to academic excellence and research is exemplified by the recruitment of new faculty members. We are proud to announce the addition of 6 Assistant Professors, 9 Associate Professors, and 2 Professors to our academic team. At present, the Institute boasts a dedicated team of 68 faculty members, complemented by 60 non-teaching staff members. The 4th Convocation held on November 4, 2023, was a prominent landmark, graced by the presence of the esteemed Hon'ble Governor Uttarakhand, Lt. Gen. Gurmit Singh. This distinguished ceremony awarded a total of 115 degrees, encompassing 12 Ph.D., 13 M.Tech., 90 B.Tech. degrees, and 01 PG diploma, following the guidelines outlined in the National Education Policy 2020. Notably, Academic Excellence awards recognized the outstanding achievements of 06 B.Tech. and 04 M.Tech. students. The admirable gesture of Hon'ble Governor Uttarakhand, Lt. Gen. Gurmit Singh, in honouring these deserving students with academic excellence awards significantly highlighted the institute's commitment to academic distinction.

In the year 2023, our institute witnessed substantial strides in research and consultancy endeavours. Faculty members have published over 200 papers in SCI/Scopus indexed journals and secured research grants exceeding Rs. 1.5 Crores from prestigious funding agencies and research organizations.

In the realm of research, Dr. Jagrati Sahariya, Associate Professor in the Department of Physics, secured a research grant of Rs. 22 Lakhs from CSIR, New Delhi. This grant will support her research project titled "Structural, Electronic, and Momentum Density Investigations of Novel Materials Applicable in Energy Conversion and Storage. Furthermore, I am pleased to inform that Dr. Kuldeep Sharma, Associate Professor, Department of Mathematics, has been awarded a research grant of Rs. 12.72 Lakhs under CRG funding of SERB, Department of Science and Technology, Government of India, for his project titled, "Extended Finite Element Method for Semipermeable Nonlinear Fracture Models in Smart Materials: Mathematical Analysis and Simulation". Similarly, Dr. Dharmendra Tripathi, Associate Professor, Mathematics, has received a research grant of Rs. 6.60 Lakhs under the MATRICS Scheme, SERB, DST project on "Computational Modelling and Validation for Directly Transmitted Viral Infection Spread: Pathogenesis and Blood Flow Dynamics".

Our alumni continue to shine, with Mr. Kunal Saurav securing All India Rank 2 in the Engineering Services Exam, and Mr. Aditya Dohar and Mr. Dev Vrat Joshi securing All India Ranks 834 and 125, respectively, in the UPSC Exam 2022. We take immense pride in their achievements and wish them the very best for their future endeavors.

Our institute also collaborated with the Department of Yoga, Hemvati Nandan Bahuguna University, to organize a 15-day yoga Camp. The active participation from students, staff, faculty, and the local community highlighted the importance of yoga in promoting physical and mental well-being. The "Yoga for Vasudhaiva Kutumbakam" celebration on International Yoga Day further demonstrated our commitment to holistic wellness and unity. I take immense pride in announcing the outstanding success of our RoboTech Club, showcasing the innovative skills and talents of our students, reflecting the excellence fostered through our curriculum and extracurricular activities. The NIT Uttarakhand Industry-Connect program added another feather to our cap, facilitating valuable collaborations with leading industries. Our students benefitted from exposure and research opportunities, strengthening the industry-academia bond. Our NSS volunteers demonstrated exceptional dedication through social welfare drives, such as blood donation camps, tree plantations, and support for underprivileged children. These initiatives exemplify our institute's commitment to making a positive impact on society and empowering our students to be responsible citizens.

The Institute's Sports Club successfully organized the Intra NIT 5-A side Football Tournament from 16th to 19th October 2023, witnessing enthusiastic participation from 152 Boys & Girls students across different teams. The event was a great display of sportsmanship, with the Men's title won by our fourth-year team and the Women's title claimed by our Adishakti Team from the second year. Furthermore, the cultural festivity of "GARBA NIGHT" held on 21st October 2023 was a vibrant celebration, showcasing traditional dance performances, a ramp walk competition, and branch-wise competitions, fostering a sense of joy and tradition amongst students, faculty, and staff members.

Our recent accomplishment, the 2nd International Conference on Power Engineering and Intelligent Systems (PEIS-2024), held on March 16-17, 2024, was a significant event organized by the Department of Electrical Engineering. With a total of 554 papers submitted, the conference witnessed active participation from researchers and scholars worldwide. Out of these, 87 papers were accepted and registered, showcasing the rigorous review process and maintaining an acceptance rate of 16%. With 18 parallel sessions, the conference covered a wide range of topics, attracting participants from 11 countries, including Bulgaria, China, Egypt, Germany, India, Russia, Sénégal, Serbia, South Africa, Sri Lanka, and the United States, among others.

I urge each member of our institute community to work more towards the institute's progress, setting targets related to Publications, Patents, External funded projects, copyrights, Designs, new experiments, lab equipment, consultancy, and contributing to social media presence. Improving admissions and placements for UG & PG students is also crucial for our collective growth.

For the coming year, the National Institute of Technology, Uttarakhand will focus on strategic growth and innovation across key areas. We plan to introduce new programs in emerging fields like Artificial Intelligence and Renewable Energy, alongside skill development courses to enhance student employability. Our research agenda aims to publish more high-impact papers, increase in grants and increase filing patents. Infrastructure upgrades will include modernizing laboratories and expanding campus facilities. We will strengthen industry partnership to boost internships, joint research, and placement opportunities, while also expanding global collaborations and hosting international conferences. Faculty and student development remains a priority, with

emphasis on training and mentorship programs. Additionally, we will intensify our community engagement through expanded NSS activities and sustainability initiatives. Cultural, sports, and extracurricular activities will be enhanced to foster a vibrant campus life, ensuring the holistic development of our students. Through these efforts, we aim to elevate our academic standards, research output, and institutional reputation in the coming years.

Jai Hind, Jai Bharat
Prof. B.V. Ramana Reddy
Incharge Director

INTRODUCTION

National Institute of Technology, Uttarakhand is one among the ten newly sanctioned NITs in 2009 by the Government of India. The Institute is fully funded by the Ministry of Education (erstwhile Human Resource Development), Government of India. The Institute in its opening years worked under the mentorship of NIT Kurukshetra. The Institute started working independently with the appointment of Prof. H. T. Thorat as the first regular Director from November 01, 2011. Dr. Satish Kumar served as the In-charge Director of the Institute from April 01, 2017, to November 06, 2017. Prof. Shyam Lal Soni assumed the charge of the Director of the Institute on November 07, 2017, until November 27, 2020. After the unfortunate demise of Prof. Soni, Padamshree Dr. Satish Kumar was again the Director-In-charge from November 28, 2020, to October 03, 2021 followed by Professor Akhilesh Swarup from October 03, 2021 to February 08, 2022. After that Professor Lalit Kumar Awasthi was the Director from February 09, 2022 to May 07, 2024. Currently Prof. B.V. Ramana Reddy, Director NIT Kurukshetra is In charge Director of NIT Uttarakhand.

01.02 HISTORICAL BACKGROUND

The Institute started functioning in 2010 with an intake of 90 students. With the inception of two more branches this intake increased to 300 in 2017-18. At present, the Institute has 595 undergraduates, 81 postgraduates and 101 Ph.D. scholars. The Institute was started with B.Tech. programmes in Computer Science & Engineering, Electrical Engineering and Electronics Engineering. B.Tech. program in Mechanical Engineering was started in 2012 followed by B.Tech. programme in Civil Engineering in 2013. The Institute started Ph.D. programme from 2013-2014 and M.Tech. in all the five branches in the year 2016.

01.03 LOCATION

The temporary Campus is located at the premises of Government Polytechnic and ITI in Srinagar Garhwal (Dist. Pauri-Garhwal) which is around 110 kms from Rishikesh. It is situated on the national highway no. 58 that leads to Badrinath (193 kms from Srinagar). Rishikesh is the nearest railway station. Haridwar, a major railway station in Uttarakhand is 130 km from Srinagar. The nearest airport is Jolly Grant, Dehradun which is 125 kms. from Srinagar. Srinagar is connected by road from the airport at Dehradun, railway stations and bus terminals at Rishikesh and Haridwar.

01.04 CAMPUS

The Institute started functioning in two buildings and a hostel in the premises of Government Polytechnic, Srinagar, Garhwal. At present, it has a residential campus with all the basic facilities for the students in temporarily fabricated buildings in the premises of Government Polytechnic. As the Institute expanded, temporary constructions were erected on the roof tops and the unused spaces of the Polytechnic campus. Later on, with permission from the State Government, Administrative Blocks and Engineering Departments were constructed at the Industrial Training Institute (ITI) Campus. Though the Institute currently has a limited space of 14,000 square

meters, it is functioning with full vigour. At present, the Institute is equipped with 35 labs, 16 classrooms, 1 library, and 11 hostels with an accommodative capacity of 1000 students. The Institute offers medical assistance to students and staff members through tie ups with various hospitals and by means of providing medical insurance to students. The dispensary at the Institute is run with the help of Medical College, Srinagar, with a visiting Doctor. Nurse and emergency vehicle is available for 24 hours. The Institute also provides other facilities in the form of ATM, Power Back-Up, Gymnasium, Laundry, Canteen Security, Wi-Fi connectivity, etc. Since its inception, the Institute has expanded its temporary campus by fabricating new buildings polytechnic campus. Later on, administrative blocks, engineering departments along with laboratories, play-ground, cafeteria and open-air theatre have been constructed at the ITI Campus.



One of the most important components of education is teaching. Keeping this in mind, NITUK has always taken intransigent efforts in recruiting faculty members. To meet this purpose, many meritorious and bright faculty members, from different parts of the country, have been recruited in different departments of the Institute from time to time. There are 68 faculty members and 60 non-teaching staff members in the Institute. The new recruitment process for the new faculty members has also been initiated this year and is in process.



OBJECTIVES

The Institute is committed to impart technical education of high standards and create such technocrats who can be serviceable to the community. The academic curriculum also aims to spread awareness of socio-technical and socio-economic problems to further provide technical solutions in rural-urban and agriculture sectors. Thus, the Institute aims at structuring academic programmes in line with national development, generating technical human resource and interaction with the industries for development of the nation.

02.01 VISION AND MISSION**VISION:**

To provide a global impetus to education and innovation for sustainable development of Industry and society.

MISSION:

1. Providing an encouraging environment for education and training of technical professionals.
2. Establishing as a center of excellence for research on challenges and demands of future generations.
3. Promoting innovation and leadership skills for producing competent professionals.
4. Developing research collaboration with institutions of repute.

GOVERNANCE**03.01 COUNCIL, ADMINISTRATIVE AND STATUTORY BODIES AND OTHER COMMITTEES****03.01.01 THE COUNCIL**

S.No.	Name	Designation
1.	The Minister in Charge, Ministry of Education, Govt. of India	Chairman (ex-officio)
2.	The Secretary to the Govt. of India, Dept. of Higher Education, Ministry of Education	Vice-Chairman (ex-officio)
3.	The Chairperson of all National Institute of Technology	Member (ex-officio)
4.	The Director of all National Institute of Technology	Member (ex-officio)
5.	The Chairman, University Grant Commission	Member (ex-officio)
6.	The Director General, Council for Scientific & Industrial Research	Member (ex-officio)
7.	Secretary, Department of Biotechnology, Govt. of India	Member (ex-officio)
8.	Secretary, Department of Atomic Energy, Govt. of India	Member (ex-officio)
9.	Secretary, Department of Information Technology, Govt. of India	Member (ex-officio)

S.No.	Name	Designation
10.	Secretary, Department of Space, Govt. of India	Member (ex-officio)
11.	The Chairman, All India Council for Technical Education	Member (ex-officio)
12.	Not less than three, but not more than five persons to be nominated by the Visitor, at least one of whom shall be a woman, having special knowledge or practical experience in respect of education, industry, science or technology	Member
13.	Three Members of Parliament, of whom two shall be chosen by the House of People and one by the Council of States	Member
14.	Two Secretaries to the State Govt. of Uttarakhand, from amongst the Ministries or departments of that government dealing with technical education	Member (ex-officio)
15.	The Financial Advisor, Ministry of Education, Govt. of India	Member-Secretary (ex-officio)
16.	Joint Secretary to the Govt. of India (Technical/Additional Secretary (Technical)/Department of Higher Education, Ministry of Education.	Member (ex-officio)

03.01.02 BOARD OF GOVERNORS

S.No.	Name	Designation
1.	Prof. Lalit Kumar Awasthi	I/c. Chairman
2.	Prof. Lalit Kumar Awasthi , Director, NIT Uttarakhand	Ex-Officio Member
3.	Joint Secretary to the Government of India to be nominated by the Central Government dealing with Technical Education	Member
4.	Joint Secretary to the Government of India to be nominated by the Central Government dealing with Finance	Member
5.	Representative, Nominated by the Govt. of Uttarakhand	Member
6.	Representative, Nominated by the Govt. of Uttarakhand	Member
7.	Nominated by the Council	Member
8.	Nominated (Women) by the Council	Member
9.	Dr. Lalta Prasad , Nominated by the Senate of NIT Uttarakhand	Member
10.	Dr. T. S. Arora , Nominated by the Senate of NIT Uttarakhand (till 30.06.2023) / Dr. A. K. Anupam , Nominated by the Senate of NIT Uttarakhand	Member
11.	Director, IIT Roorkee or his nominee, not below the rank of a Professor	Member
12.	Dr. Dharmendra Tripathi (01.07.2022 to 30.01.2024), I/c. Registrar, National Institute of Technology, Uttarakhand Mr. Hari Maul Azad (31.01.2024 to till date), Registrar, National Institute of Technology, Uttarakhand	Secretary

03.01.03 FINANCE COMMITTEE

S.No.	Name	Designation
1.	Prof. Lalit Kumar Awasthi	I/c. Chairman (Nominated by the Visitor)
2.	Prof. Lalit Kumar Awasthi , Director, NIT Uttarakhand	Ex-Officio-Member
3.	Joint Secretary dealing with NITs or his nominee	Member
4.	Financial Advisor of MoE or his nominee	Member

S.No.	Name	Designation
5.	Director, IIT Roorkee, Nominated by the Board	Member
6.	Dr. Dharmendra Tripathi (01.07.2022 to 30.01.2024), I/c. Registrar, National Institute of Technology, Uttarakhand Mr. Hari Maul Azad (31.01.2024 to till date), Registrar, National Institute of Technology, Uttarakhand	Ex-Officio- Member Secretary

03.01.04 BUILDING AND WORKS COMMITTEE

S.No.	Name	Designation
1.	Prof. Lalit Kumar Awasthi , Director, NIT Uttarakhand	Ex-Officio Chairman
2.	One member nominated by the Central Govt. not below the rank of Director or Deputy Secretary	Member
3.	Prof. Ganesh Kumbar , Department of Electrical Engg., IIT Roorkee Dr. Ashwani Kumar , Professor, Department of Electrical Engineering, NIT Kurukshetra (from 01.02.2024)	Member
4.	Dean, Planning & Development, NIT Uttarakhand	Member
5.	Dr. Rajib Chowdhury , Associate Professor, IIT Roorkee	Member
6.	Er. C. B. Singh , Superintending Engineer, CPWD, Karnal & Chandigarh Division	Member
7.	Dr. Dharmendra Tripathi (01.07.2022 to 30.01.2024), I/c. Registrar, National Institute of Technology, Uttarakhand Mr. Hari Maul Azad (31.01.2024 to till date), Registrar, National Institute of Technology, Uttarakhand	Ex-Officio Member Secretary

03.01.05 THE SENATE

S.No.	Name	Designation
1.	Prof. Lalit Kumar Awasthi , Director, NIT Uttarakhand	Ex-Officio–Chairman
2.	Prof. M. R. Maurya , IIT Roorkee, Nominated by the Chairperson, Board / Prof. Karunesh Kumar Shukla , Director, MANIT Bhopal (from 24.04.2024)	Member
3.	Prof. Gian Bhushan , NIT Kurukshetra, Nominated by the Chairman Senate / Prof. Mahesh Chandra Govil , Director, NIT Sikkim (from 24.04.2024)	Member
4.	Prof. Vinita Mohindra , MANIT Bhopal, Nominated by the Chairperson, Board	Member
5.	Dr. Dharmendra Tripathi (01.07.2022 to 30.01.2024), I/c. Registrar, National Institute of Technology, Uttarakhand Mr. Hari Maul Azad (31.01.2024 to till date), Registrar, National Institute of Technology, Uttarakhand	Secretary

03.02 ORGANIZING STRUCTURE**03.02.01 DEANS**

S.No.	Designation	Name	Period
1	Dean (Planning & Development)	Dr. Gurinder Singh Brar Dr. Vikas Pratap Singh	01.04.2023 to 29.09.2023 30.09.2023 to 31.03.2024
2	Dean (Academic Affaris)	Dr. Lalita Prasad Dr. Jagrati Sahariya	01.04.2023 to 29.09.2023 30.09.2023 to 31.03.2024
3	Dean (Research & Consultancy)	Dr. Sanat Agrawal	01.04.2023 to 31.03.2024
4	Dean (Faculty Welfare)	Dr. Hariharan	01.04.2023 to 31.03.2024

S.No.	Designation	Name	Period
		Muthusamy	
5	Dean (Student Welfare & Alumni Affairs)	Dr. Dharmendra Tripathi	01.04.2023 to 31.03.2024
6	Dean (International Relations, Alumni Affairs and Rankings)	Prof. Vivek Shrivastava	12.02.2024 to 31.03.2024

03.02.02 ASSOCIATE DEANS

S.No.	Designation	Name	Period
1	Associate Dean (Planning & Development-1)	Dr. Aditya Kumar Anupam	01.04.2023 to 28.02.2024
		Dr. Bibhash Kumar	01.03.2024 to 31.03.2024
2	Associate Dean (Planning & Development-2)	Dr. Vikas Pratap Singh	01.04.2023 to 16.05.2023
		Dr. Mahiraj Singh Rawat	16.05.2023 to 31.03.2024
3	Associate Dean (Academic Affairs-UG)	Dr. Prakash Dwivedi	01.04.2023 to 31.03.2024
4	Associate Dean (Academic Affairs-PG)	Dr. Saroj Ranjan De	01.04.2023 to 29.02.2024
		Dr. Niraj Kumar Mishra	01.03.2024 to 31.03.2024
5	Associate Dean (Research & Consultancy)	Dr. Pawan Kumar Rakesh	01.04.2023 to 30.09.2023
		Dr. Shashank Bhatra	01.10.2023 to 31.03.2024
6	Associate Dean (Faculty Welfare, Development & International Affairs)	Dr. Maheep Singh	01.04.2023 to 16.05.2023
		Dr. Vikas Pratap Singh	17.05.2023 to 29.09.2023
		Dr. Kamal Kumar	30.09.2023 to 12.12.2023
		Dr. Abhimanyu Kumar	13.12.2023 to 31.03.2024
7	Associate Dean (Student Welfare & Alumni Affairs)	Dr. Rakesh Kumar Mishra	16.09.2022 to 29.02.2024
		Dr. Kuldeep Sharma	01.03.2024 to 31.03.2024
8	Associate Dean (International Relations, Alumni Affairs and Rankings)	Dr. Saroj Ranjan De	12.02.2024 to 31.03.2024

03.02.03 HEAD OF DEPARTMENTS

S.No.	Department	Name	Tenure
1	Humanities & Social Sciences	Dr. Renu Bhadola Dangwal	01.04.2023 to 31.03.2024
2	Mathematics	Dr. Kuldeep Sharma	01.04.2023 to 29.02.2024
		Dr. Kusum Sharma	01.03.2024 to 31.03.2024
3	Chemistry	Dr. Rampal Pandey	01.04.2023 to 29.02.2024
		Dr. Rakesh Kumar Mishra	01.03.2024 to 31.03.2024
4	Physics	Dr. Manvendra Singh Khatri	01.04.2023 to 31.03.2024
5	Mechanical Engineering	Dr. Vinod Singh Yadav	01.04.2023 to 20.09.2023
		Dr. Apurba Mandal	21.09.2023 to 31.03.2024
6	Electrical Engineering	Dr. Sourav Bose	01.04.2023 to 29.02.2024

S.No.	Department	Name	Tenure
		Dr. Suryanarayana Gangolu	01.03.2024 to 31.03.2024
7	Electronics Engineering	Dr. Sarika Pal	01.04.2023 to 29.02.2024
		Dr. Siva Kumar Tadepalli	01.03.2024 to 31.03.2024
8	Civil Engineering	Dr. Kranti Gyanchand Jain	01.04.2023 to 29.09.2023
		Dr. Smita Kaloni	30.09.2023 to 31.03.2024
9	Computer Science and Engineering	Dr. Kamal Kumar	01.04.2023 to 13.09.2023
		Dr. Surendra Singh	14.09.2023 to 29.09.2023
		Dr. Morati Deshmukh	30.09.2023 to 31.03.2024

03.03 FACULTY & STAFF POSITIONS

03.03.01 SANCTIONED POSITIONS & FILLED-IN POSITIONS

S.No.	Designation	Post sanctioned	In-position	Vacant
1.	Teaching	86	67	18
2.	Trainee Teachers	–	01	
TOTAL (A)		86	68	18
1.	Registrar	01	01	–
2.	Deputy Registrar	01	–	01
3.	Assistant Registrar	02	02	–
4.	SAS Officer	01	01	–
5.	Medical Officer	01	–	01
6.	Executive Engineer	01	–	01
7.	Assistant Librarian	01	–	01
8.	Superintendent	07	04	03
9.	Technical Assistant/Junior Engineer/Nurse	27	15	12
10.	Senior Assistant	01	01	–
11.	Stenographer	01	–	01
12.	Junior Assistant	12	09	03
13.	Technician/Lab Asstt.	26	17	09
14.	MTS/Office Attendant	13	10	03
TOTAL (B)		95	60	35
TOTAL (A+B)		181	128	53

03.03.02 DISTRIBUTION OF FACULTY (DEPARTMENT & DESIGNATION WISE)

S.No.	Department	Professor	Associate Professor	Assistant Professor	Trainee Teacher	Total
1.	Civil Engineering	–	02	09	–	11
2.	Computer Sci. & Engineering	–	–	05	–	05
3.	Electronics Engineering	–	01	10	–	11
4.	Electrical Engineering	01	01	07	01	10
5.	Mechanical Engineering	–	03	10	–	13
6.	Chemistry	–	02	03	–	05
7.	English	–	–	03	–	03
8.	Mathematics	–	02	03	–	05

9.	Physics	01	03	01	–	05
Total		02	14	51	01	68

03.03.03 DETAILS OF FACULTY

S.No.	Name of employee	Designation	Department
1.	Prof. Lalit Kumar Awasthi	Director	-
2.	Dr. Dharmendra Tripathi	Associate Professor	Mathematics
3.	Dr. Kuldeep Sharma	Associate Professor	
4.	Dr. Dheerendra Bahadur Singh	Assistant Professor (Gr-I)	
5.	Dr. Nitin Sharma	Assistant Professor (Gr-I)	
6.	Dr. Kusum Sharma	Assistant Professor (Gr-I)	
7.	Dr. Renu Bhadola Dangwal	Assistant Professor (Gr-I)	Humanities & Social Sciences
8.	Dr. Ajay Kumar Chaubey (On Lien from 20/04/2022 to 19/04/2024)	Assistant Professor (Gr-I)	
9.	Dr. Minakshi Rana	Assistant Professor (Gr-II)	
10.	Prof. Vimal Sharma	Professor	Physics
11.	Dr. Hardeep Kumar	Associate Professor	
12.	Dr. Manvendra Singh Khatri	Associate Professor	
13.	Dr. Jagrati Sahariya	Associate Professor	
14.	Dr. Nagpure Indrajit Manohar	Assistant Professor (Gr-I)	
15.	Dr. Saroj Ranjan De	Associate Professor	Chemistry
16.	Dr. Pankaj Kandwal	Associate Professor	
17.	Dr. Rampal Pandey (On Lien from 29/02/2024 to 28/02/2025)	Assistant Professor (Gr-I)	
18.	Dr. Rakesh Kumar Mishra	Assistant Professor (Gr-I)	
19.	Dr. Kamal Kant Tiwari	Assistant Professor (Gr-I)	
20.	Dr. Hariharan Muthusamy	Associate Professor	Electronics Engineering
21.	Dr. Siva Kumar Tadepalli	Assistant Professor (Gr-I)	
22.	Dr. Sarika Pal	Assistant Professor (Gr-I)	
23.	Dr. Tajinder Singh Arora (On Lien from 30/06/2023 to 29/06/2024)	Assistant Professor (Gr-I)	
24.	Dr. Tushar Goel	Assistant Professor (Gr-I)	
25.	Dr. Pankaj Kumar Pal	Assistant Professor (Gr-I)	
26.	Dr. Ghanapriya Singh (On Lien from 21/11/2022 to 20/11/2024)	Assistant Professor (Gr-II)	
27.	Dr. Sarita Yadav	Assistant Professor (Gr-II)	
28.	Dr. Nitanshu Chauhan	Assistant Professor (Gr-II)	
29.	Dr. Vivek Kumar	Trainee Teacher upto 07.12.2023 Assistant Professor (Gr-II) w.e.f. 08.12.2023	
30.	Dr. Jaiverdhan	Assistant Professor (Gr-II)	
31.	Dr. Vivek Shrivastava	Professor	Electrical Engineering
32.	Dr. Prakash Dwivedi	Associate Professor	
33.	Dr. Mahiraj Singh Rawat	Assistant Professor (Gr-I)	
34.	Dr. Sourav Bose	Assistant Professor (Gr-I)	
35.	Dr. Suryanarayana Gangolu	Assistant Professor (Gr-I)	
36.	Dr. Tripurari Nath Gupta	Assistant Professor (Gr-II)	
37.	Dr. Rohit Kumar	Assistant Professor (Gr-II)	
38.	Dr. Anant Milan Khalkho	Assistant Professor (Gr-II)	
39.	Dr. Ravinder Kumar	Assistant Professor (Gr-II)	

S.No.	Name of employee	Designation	Department
40.	Dr. Sanat Agrawal	Associate Professor	Mechanical Engineering
41.	Dr. Lalta Prasad	Associate Professor	
42.	Dr. Gurinder Singh Brar	Associate Professor	
43.	Dr. Pawan Kumar Rakesh	Assistant Professor (Gr-I)	
44.	Dr. Vinod Singh Yadav	Assistant Professor (Gr-I)	
45.	Dr. Apurba Mandal	Assistant Professor (Gr-I)	
46.	Dr. Vikas Kukshal	Assistant Professor (Gr-I)	
47.	Dr. Niraj Kumar Mishra	Assistant Professor (Gr-I)	
48.	Dr. Dungali Sreehari	Assistant Professor (Gr-I)	
49.	Dr. Gaurav Kumar (Relieved on 16/10/2023)	Assistant Professor (Gr-II)	
50.	Dr. Deepak Kumar	Assistant Professor (Gr-II)	
51.	Dr. Hitesh Sharma	Assistant Professor (Gr-II)	
52.	Dr. T. Sudhakar	Assistant Professor (Gr-II)	
53.	Dr. Prashant Tiwari	Assistant Professor (Gr-II)	
54.	Dr. Kamal Kumar (Relieved on 13/12/2023)	Assistant Professor (Gr-I)	Computer Science & Engineering
55.	Dr. Deshmukh Maroti Bhujangrao	Assistant Professor (Gr-I)	
56.	Dr. Maheep Singh (On Lien from 10/01/2024 to 09/01/2025)	Assistant Professor (Gr-I)	
57.	Dr. Abhimanyu Kumar	Assistant Professor (Gr-I)	
58.	Dr. Nitin Kumar (Relieved on 08/05/2023)	Assistant Professor (Gr-II)	
59.	Dr. Surendra Singh	Assistant Professor (Gr-II)	
60.	Dr. Sneha Chauhan	Trainee Teacher upto 19.09.2023 Assistant Professor (Gr-II) w.e.f. 20.09.2023	Civil Engineering
61.	Dr. Kranti Gyanchand Jain	Associate Professor	
62.	Dr. Vikas Pratap Singh	Associate Professor	
63.	Dr. Aditya Kumar Anupam	Assistant Professor (Gr-I)	
64.	Dr. Smita Kaloni	Assistant Professor (Gr-I)	
65.	Dr. Shashank Bhatra	Assistant Professor (Gr-I)	
66.	Dr. Shashi Narayan	Assistant Professor (Gr-I)	
67.	Dr. Bibhash Kumar	Assistant Professor (Gr-II)	
68.	Dr. Muskan Mayank	Assistant Professor (Gr-II)	
69.	Mr. Amardeep	Assistant Professor (Gr-II)	
70.	Dr. Abhinav Kumar	Assistant Professor (Gr-II)	
71.	Dr. Akhilesh Nautiyal	Assistant Professor (Gr-II)	
72.	Mr. Nitesh Kumar (Relieved on 01/01/2024)	Trainee Teacher	Electrical Engineering
73.	Mr. Himesh Kumar	Trainee Teacher	

03.03.04 DETAILS OF NON-TEACHING STAFF

S.No.	Name of employee	Designation
1.	Mr. Hari Maul Azad	Registrar
2.	Dr. Vineeta Negi Panwar	Assistant Registrar
3.	Mr. Jagdeep Singh	Assistant Registrar

S.No.	Name of employee	Designation
	(on Lien from 22/11/2023 to 21/11/2024)	
4.	Dr. Kuldeep Singh	Student Activity & Sports Officer
5.	Mr. Anoop Sharma	Superintendent (Accounts)
6.	Mr. Sanjay Bhatt	Superintendent
7.	Mrs. Anjali Gupta Maurya (on Lien from 03/05/2023 to 02/05/2025)	Superintendent
8.	Mr. Praveen Kumar Manwal	Superintendent
9.	Mr. Sumit Kumar	Junior Engineer (Electrical)
10.	Mrs. Neha Raturi	Technical Assistant (Physics)
11.	Mrs. Bhavana	Technical Assistant (Electronics)
12.	Mr. Kawal Preet Singh	Technical Assistant (Electrical)
13.	Mrs. Kumud Sharma	Library & Information Assistant
14.	Mr. Paras Sah	Technical Assistant (Civil)
15.	Mr. Vikas Kothari (on Lien from 30/11/2023 to 29/11/2025)	Technical Assistant (Comp. Sci. & Engg.)
16.	Mohammed Arshad Saify	Technical Assistant (Mechanical)
17.	Mr. Abhishek	Technical Assistant (Electronics)
18.	Mr. Gole Balaji Dhanraj	Technical Assistant (Electronics)
19.	Mrs. Sangeeta Basu Sinha	Nurse
20.	Mr. Vikas Singh Chauhan	Technical Assistant (Comp. Sci. & Engg.)
21.	Mr. Alok Kumar Patel	Technical Assistant (Electrical)
22.	Mr. Rajesh Kumar	Technical Assistant (Comp. Sci. & Engg.)
23.	Mr. Purushottam Prabhakar Jawarkar	SAS Assistant
24.	Mrs. Beena Rawat	Senior Assistant
25.	Mrs. Rekha Rawat	Junior Assistant
26.	Mrs. Swati Bhatt	Junior Assistant
27.	Mrs. Meenakshi Bhatt	Junior Assistant
28.	Mr. Amit Singh	Junior Assistant
29.	Mr. Ajay Singh	Junior Assistant
30.	Mr. Gaurav Singh Negi	Junior Assistant
31.	Mrs. Pooja	Junior Assistant
32.	Mr. Manoj Kumar	Junior Assistant
33.	Mr. Ranjit Sharma (on Lien from 18/03/2024 to 17/03/2026)	Junior Assistant
34.	Mr. Anil Bhatt	Technician (Chemistry)
35.	Mr. Pradeep Kumar	Technician (Electrical)
36.	Mr. Jai Dev	Technician (Comp. Sci. & Engg.)
37.	Mr. Manoj Kumar (on Lien from 21/08/2023 to 20/08/2024)	Technician (Comp. Sci. & Engg.)
38.	Mr. Santosh Singh Rawat	Technician (Mech.-Machinist)
39.	Mr. Rinku	Technician (Mech.-Welder)
40.	Mr. Yudhbir Singh Negi	Technician (Comp. Sci. & Engg.)
41.	Mr. Nilesh Kumar Bhardwaj (Relieved on 30/05/2023)	Technician (Library)
42.	Mr. Sushil Kumar	Technician (Civil-Surveyor)
43.	Mr. Chandramohan	Technician (Civil-Plumber)
44.	Mr. Pawan Rana	Technician (Mech.-Machinist)
45.	Mr. Krishan Kumar	Technician (Mech.-Carpenter)
46.	Mr. Chandra Pal Singh	Technician (Electronics)

S.No.	Name of employee	Designation
47.	Mr. Robin Manish Kujur	Technician (Comp. Sci. & Engg.)
48.	Mr. Amandeep Singh	Technician (Electrical)
49.	Mr. Sachin Sharma (on Lien from 27/06/2023 to 26/06/2024)	Technician (Comp. Sci. & Engg.)
50.	Mr. Shashi Kumar Jha	Technician (Library)
51.	Mr. Sanjay Chauhan	Technician (Electrical)
52.	Mr. Ravindra Kumar	Laboratory Attendant (Electrical)
53.	Mr. Ashish Nautiyal	Office Attendant
54.	Mr. Malkeet Singh	Laboratory Attendant (Mech.-Machinist)
55.	Mr. Tanuj Thapliyal	Office Attendant
56.	Mr. Deepak Vijay	Office Attendant
57.	Mrs. Suman Mewad	Office Attendant (Library)
58.	Mr. Siddharth Awadhiya	Office Attendant (Library)
59.	Mr. Saurabh Singh Negi	Office Attendant
60.	Mrs. Deepika Maithani	Office Attendant
61.	Mr. Pankaj Singh	Office Attendant

EDUCATION SYSTEM

At present, NIT Uttarakhand offers B. Tech., M.Tech. and Ph. D. programmes. Initially, the Institute started B. Tech. programmes in three branches with an intake of 20 students per branch. The Institute is also conducting M. Tech. programme in five branches with an intake of 19 students in each branch;

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

The Institute offers Ph.D. programme in all the five branches and also in basic sciences and humanities (Mathematics, Physics, Chemistry, Humanities and Social Sciences).

04.01 ACADEMIC AUTONOMY

The Institute manages its internal academic affairs independently under the supervision of the Senate of the Institute which enables them to set up their own curriculum. The academic policies, ordinances, curriculum, courses, examinations, evaluation and results are approved and controlled by the Senate. All kinds of specific academic matters pertaining to teaching, training and research activities of various departments come under preview of the Senate.

04.02 SALIENT FEATURES OF ACADEMIC STRUCTURE

The academic structure of the Institute has many salient features:

- The most (modern and flexible Academic structure)
- 35 % courses are elective
- Freedom to choose elective courses per semester
- Freedom to choose sequence of courses

- Faculty to go for credit exchange programme in another Institute for one complete semester
- Freedom to complete the programme in VII semesters and going to industry for one semester internship

The curriculum provides broad based knowledge and simultaneously builds a temper for the lifelong process of learning and exploring. At undergraduate level, a student needs to do compulsory foundation courses in the areas of basic sciences, humanities and social sciences apart from the departmental requirements. Departmental courses (core and electives) constitute minimum 50% of the total curriculum. Further, students do open category electives to develop broad inter-disciplinary knowledge base or to specialize significantly in an area outside the parent discipline. At the postgraduate level, students are encouraged to look beyond their area of specialization to broaden their horizons through open electives. The medium of instruction in the Institute is English. The Institute follows the semester system. An academic year runs from July through June next year and is comprised of two semesters and two terms. Typically, the 1st semester (Odd Semester) starts in the first week of August and ends in the middle of December, the 2nd semester (Even Semester) starts in first week of January and ends in the middle of May. The Ordinances govern all the rules and regulations for running all Under Graduate and Post Graduate programs in the Institute.

04.03 ACADEMIC PROGRAMMES

04.03.1 UNDERGRADUATE PROGRAMMES

1. Civil Engineering
2. Computer Science & Engineering
3. Electronics & Communication Engineering
4. Electrical & Electronics Engineering
5. Mechanical Engineering

04.03.2 Postgraduate Programmes

1. Civil Engineering with specialization in
2. Structural Engineering
3. Transportation Engineering
4. Computer Science and Engineering with specialization in
5. Artificial Intelligence and Machine Learning
6. Electronics Engineering with specialization in
7. Microelectronics and VLSI Design
8. Electrical Engineering with specialization in
9. Power Electronics and Drives
10. Mechanical Engineering with specialization in
11. Machine Design

12. Thermal Engineering

04.03.3 Ph.D. Programmes

The Institute offers Ph. D. programme in the following branches:

1. Civil Engineering
2. Computer Science & Engineering
3. Electronics Engineering
4. Electrical Engineering
5. Mechanical Engineering
6. Chemistry
7. Mathematics
8. Physics
9. Humanities and Social Sciences.

04.04 ADMISSION PROCEDURE**B. Tech. Programme:**

The admission to B.Tech. degree programme at NIT Uttarakhand is done through Joint Seat Allocation Authority (JoSAA) 2023. Admissions were given on the basis of All India Rank (AIR) prepared by JoSAA considering score in JEE (Main)-2023.

M. Tech. Programme:

The admission to M. Tech. degree programmes at NIT Uttarakhand is done through Centralized counselling for M. Tech. / M. Arch. / M.Plan. / M. Des. Admissions (CCMT) 2023. Admissions were conducted on the basis of GATE.

Ph. D. Programme:

For the admission in the Ph.D. program, candidates are shortlisted for written test on the basis of required qualification (GATE/NET/SET qualified). The qualified candidates are called for personal interview. After qualifying, the candidates are provisionally admitted for Ph.D. in the Institute. Their registration for Ph.D. program at the Institute is confirmed only after successful completion of Pre-Registration viva-voce. The Institute scholars are awarded fellowship as per norms. To avail the fellowship, the candidate should be GATE/NET/SET qualified. Part-time Candidates are NOT eligible for fellowship.

04.05 EXAMINATION AND EVALUATION

Students are awarded grade points based on their performance in the class and examinations. The grades and their equivalent numerical points are listed below:

Grade	Grade points	Description
AA	10	Excellent
AB	9	Very good
BB	8	Good (Above Average)

BC	7	Meets all targeted objectives of the course.
CC	6	Below expectations
DD	4	Marginal, Meets minimum targeted objectives of the course.
FF	0	Very poor
GG	-	Incomplete
UU	-	Unsatisfactory
PP	-	Audit pass
YY	-	Audit fail
XX	-	Withdrawal
KK	-	Continued
SS	-	Satisfactory completion (Zero credit course)
ZZ	-	Unsatisfactory / Failed (Zero credit course)
JJ	-	Failed three times in the core course. Permitted to replace it by Elective Course

Only passing grades are shown in the final Grade Card. Student having CGPA minimum 6.75 is considered for the award of First Division.

04.05.1 Evaluation of Performance

The performance of a student is evaluated in terms of two indices, via, the Semester Grade Point Average (SGPA) which is the Grade Point Average for a semester and Cumulative Grade Point Average (CGPA) which is the Grade Point Average for all the completed semesters at any point in time. The Earned Credit (ECR) is defined as the sum of course credits for courses in which students have been awarded grades between AA to DD. For UG students, credits from courses in which PP or SS grades have been obtained are also added. Earned Grade Points in a semester (EGP) = $\sum$ (Course credits x Grade point) for courses in which AA- DD grade has been obtained. The SGPA is calculated on the basis of grades obtained in all courses, except audit courses and courses in which SS / ZZ grade is awarded, registered for in the particular semester. UU grades will be considered as failed grade with Grade Point of Zero and will be included while calculating SGPA. The CGPA is calculated on the basis of all pass grades, except audit courses and courses in which SS/ZZ grade is awarded, obtained in all completed semesters.

$SGPA = EGP / \sum (\text{Course credits})$ for courses registered in a semester in which AA, FF & UU grades are awarded.

$CGPA = EGP / \sum (\text{Course credits})$ for courses registered in all completed semesters in which AA-DD grades are awarded.

The conversion formula from CGPA to percentage (%) is as under: $\text{Percentage (\%)} = 10 \times \text{CGPA}$.

04.06 ACADEMIC CALENDAR

Academic Calendar

राष्ट्रीय प्रौद्योगिकी संस्थान,
उत्तराखण्ड
National Institute of Technology,
Uttarakhand



Temporary Campus-Government ITI, Srinagar (Garhwal), Distt. Pauri Garhwal, Uttarakhand-246174 Phone: 01346-257401, 257408 (D), 01346-251995 (Toll Free) E-Mail: admission@nitk.ac.in, admission@nitk.ac.in, admission@nitk.ac.in Website: www.nitk.ac.in

Odd Semester – 2023

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Activity of Week
August 2023	31 Enrolment (Without Late Fee)	1 Classes Begin	2	3	4	5	6	Enrolment & Classes Begin
	7	8	9 Last date of Enrolment with late fee of Rs. 1000, Last date of Add & Drop	10	11	12	13	Last date of Enrolment Last date of Add & Drop
	14	15 Independence Day	16	17	18	19	20	
	21	22	23	24	25	26	27	
September 2023	28	29	30	31	1	2	3	
	4	5	6 Mid Term Exam – I Slot A & B & C	7 Mid Term Exam – I Slot D & E & F	8 Mid Term Exam – I Slot G & H & I	9	10	Mid Term Exam – I
	11	12	13	14 Last Date of Special MTE-I	15	16	17	Special MTE-I
	18 Last Date of Course Withdrawal, Conversion of Credit to Audit Course	19	20	21	22	23 Monday Time Table	24	Last Date of Course Withdrawal, Conversion from Credit to Audit Course Last Date of Display of MTE-I Marks
October 2023	25 Last Date of Display of MTE-I Marks	26	27	28 Eid-e-Milad	29	30	1	
	2 Gandhi Jayanti	3	4	5	6	7	8	
	9	10	11	12 Mid Term Exam – II Slot A & B & C	13 Mid Term Exam – II Slot D & E & F	14 Mid Term Exam – II Slot G & H & I	15	Mid Term Exam – II
	16 Committee Meeting for finalization of courses to be offered in Even Semester - 2024	17	18	19 Last Date of Special MTE-II	20	21	22	Special MTE-II
November 2023	23 Maha Navami	24 Dussehra	25	26	27	28	29	
	30 Display of List of Courses with Slots to be offered in Even Semester - 2024	31	1	2 Last Date of Display of MTE-II Marks	3 Registration for Even Semester - 2024	4 Tuesday Time table	5	Registration for Even Semester - 2023 Last Date of Display of MTE-II Marks
	6	7	8	9	10	11 Mid Term Break Starts For students	12 Deepawali	Mid Term Break Starts
	13 Mid Term Break Starts For Faculty	14	15	16	17 Mid Term Break Ends For Faculty	18	19 Mid Term Break Ends for Students	Mid Term Break Ends
December 2023	20	21	22	23	24	25 Monday Time Table Display of short Attendance of P type courses	26	
	27 Guru Nanak Jayanti	28 End Term Exam of P type courses Display of short Attendance of L & P Type courses	29 End Term Exam of P type courses Display of Internal Marks of L & P Type courses	30	1 End Term Exam Slot A	2 End Term Exam Slot B	3	End Term Exam Display of short Attendance & Internal Marks
	4 End Term Exam Slot C	5 End Term Exam Slot D	6 End Term Exam Slot E	7 End Term Exam Slot F	8 End Term Exam Slot G	9 End Term Exam Slot H	10	End Term Exam
	11 End Term Exam Slot I	12 Last date of Showing Answer Sheets	13 Last Date of Showing Answer Sheets	14 Committee Meeting for Finalization & Display of Grades for L & P Type courses	15 Last date for Grievance	16 Winter Vacation Starts For Students & Faculty Members	17	Special ETE
	18	19	20	21	22 Last date of finalization of TR for Final year students	23	24	Display of Grades Winter Vacations
	25 Christmas	26	27	28	29	30 Winter Vacation Ends For Faculty Members	31 Winter Vacation Ends For Students	Winter Vacation Ends
	1 Enrolment (Without Late Fee)	2 Classes Begin	3	4	5	6	7	Enrolment & Classes Begin for Even Sem 2024
	8	9	10	11	12	13	14	

Academic Calendar

B.Tech. & M.Tech. 1st Yearराष्ट्रीय प्रौद्योगिकी संस्थान,
उत्तराखण्ड
National Institute of Technology,
UttarakhandTemporary Campus-Government ITI, Srinagar (Garhwal), Distt. Pant Garhwal, Uttarakhand-245174 Phone: 01345-257401, 257408 (O), 01345-251995 (Toll Free) E-Mail: admission@nitk.ac.in, exam@nitk.ac.in, placement@nitk.ac.in Website: www.nitk.ac.in

Odd Semester – 2023

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Activity of Week
August 2023	31	1	2	3	4	5	6	
	7	8	9	10	11	12	13	
	14	15 Independence Day	16	17	18	19	20	
September 2023	21 Registration & Enrolment	22 Classes Begin	23	24	25	26 Monday Time Table	27	Enrolment & Classes Begin
	28	29	30	31	1	2 Tuesday Time Table	3	
	4	5	6	7	8	9 Thursday Time Table	10	
	11	12	13	14	15 Mid Term Exam – I Slot A & B & C	16 Mid Term Exam – I Slot D & E & F	17 Mid Term Exam – I Slot G & H & I	Mid Term Exam – I
	18	19	20	21 Last Date of Special MTE-I	22	23 Friday Time Table	24	Last Date of Special MTE-I
	25 Last Date of Display of MTE-I Marks	26	27	28 Eid-e-Milad	29	30 Monday Time Table	1	Last Date of Display of MTE-I Marks
	2	3	4	5	6	7 Thursday Time Table	8	
October 2023	9	10	11	12 Mid Term Exam – II Slot A & B & C	13 Mid Term Exam – II Slot D & E & F	14 Mid Term Exam – II Slot G & H & I	15	Mid Term Exam – II
	16 Committee Meeting for Finalization of courses to be offered in Even Semester - 2024	17	18	19 Last Date of Special MTE-II	20	21 Friday Time Table	22	Special MTE-II
	23 Maha Navami	24 Dussehra	25	26	27	28 Thursday Time Table	29	
	30 Display of List of Courses with Slots to be offered in Even Semester - 2024	31	1	2 Last Date of Display of MTE-II Marks	3 Registration for Even Semester - 2024	4 Monday Time Table	5	Registration for Even Semester - 2024, Last Date of Display of MTE-II Marks
November 2023	6	7	8	9	10	11 Mid Term Break Starts For students	12 Deepawali	Mid Term Break Starts
	13 Mid Term Break Starts For Faculty	14	15	16	17 Mid Term Break Ends For Faculty	18	19 Mid Term Break Ends for Students	Mid Term Break Ends
	20	21	22	23	24	25 Monday Time Table Display of short Attendance of P type courses	26 Friday Time Table	
	27 Guru Nanak Jayanti	28	29 Display of short Attendance of L type courses	30 Display of Internal Marks of L & P Type courses	1 End Term Exam Slot A	2 End Term Exam Slot B	3	End Term Exam
December 2023	4 End Term Exam Slot C	5 End Term Exam Slot D	6 End Term Exam Slot E	7 End Term Exam Slot F	8 End Term Exam Slot G	9 End Term Exam Slot H	10	End Term Exam
	11 End Term Exam Slot I	12 Last date of Special ETE	13 Last Date of Showing Answer Sheets	14 Committee Meeting for Finalization & Display of Grades for L & P Type courses	15 Last date for Grievance	16 Winter Vacation Starts For Students & Faculty Members	17	Special ETE
	18	19	20	21	22 Last date of finalization of TR for Final year students	23	24	Winter Vacations
	25 Christmas	26	27	28	29	30 Winter Vacation Ends For Faculty Members	31 Winter Vacation Ends For Students	Winter Vacation Ends
	1 Enrolment (Without Late Fee)	2 Classes Begin	3	4	5	6	7	Enrolment & Classes Begin for Even Sem 2024
	8	9	10	11	12	13	14	

End Term Exam of P type courses shall be conducted in the respective lab timings similar to mid term evaluation(s).

Academic Calendar

राष्ट्रीय प्रौद्योगिकी संस्थान,
उत्तराखण्ड
National Institute of Technology,
Uttarakhand



Temporary Campus-Government (ITI, Sringeri (Garhwal), Distt.PauriGarhwal, Uttarakhand-246174. Phone: 01346-257401, 257400 (D), 01346-251095 (Tele Fax) E-Mail: nituttarakhand@gmail.com, Website: www.nituk.ac.in

Even Semester - 2024

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Activity of Week
January 2024	1 Enrolment (Without Late Fee)	2 Classes Begin	3 2	4 3	5 4	6	7	Enrolment & Classes Begin
	8 5	9 6	10 7 Last date of Enrolment with late fee of : 1000 And Add & Drop	11 8	12 9	13	14 Makar Sankranti	Last date of Enrolment Last date of Add & Drop
	15 10	16 11	17 12	18 13	19 14	20	21	
	22 15	23 16	24 17	25 18	26 Republic Day	27	28	
	29 19	30 20	31 21	1 22	2 23	3	4	
February 2024	5	6	7	8 Mid Term Exam - I Slot A & B & C	9 Mid Term Exam - I Slot D & E & F	10 Mid Term Exam - I Slot G & H & I	11	Mid Term Exam - I
	12 24	13 25	14 26	15	16 Last Date of Course Withdrawal, Conversion from Credit to Audit Course	17	18	
	19 32	20 33	21 34 Last Date of Special MTE-I	22 35	23 36	24	25	Special MTE-I, Course Withdrawal, Conversion from Credit to Audit course
	26 37 Last Date of Display of MTE-I Marks	27 38	28 39	29 40	1 41	2	3	Display of MTE-I Marks
	4 42	5 43	6 44	7 45	8 46	9	10	
March 2024	11 47	12 48	13 49	14 Mid Term Exam - II Slot A & B & C	15 Mid Term Exam - II Slot D & E & F	16 Mid Term Exam - II Slot G & H & I	17	Mid Term Exam - II
	18 50	19 51	20 52	21	22	23 Mid Term Break Starts for students	24	Mid Term Break Starts Special MTE-II
	25 Holi	26	27	28	29 Good Friday	30	31 Mid Term Break Ends for students	Mid Term Break Ends
	1 35 Last Date of Special MTE-II	2 36 Committee Meeting for finalization of courses to be offered in Odd Semester 2024	3 37 Last Date of Display of MTE-II Marks	4 38	5 39	6	7	Committee Meeting for finalization of courses to be offered in Odd Semester 2024 Display of MTE-II Marks
	8 60 Display of List of Courses with Slots to be offered in Odd Semester 2024	9 61	10 62 Registration for Odd Semester 2024	11 63 Eid - ul - Fitr	12 64	13	14	Display of List of Courses, Registration for Odd Semester - 2024
April 2024	15 65	16 66	17 67 Friday time table	18 68	19 69	20	21 Mahaveer Jayanti	
	22 70 Thursday time table	23 71	24 72 Display of Attendance and Internal marks of L & P type Courses	25	26 End Term Exam of P type courses	27	28	Display of Attendance & Internal Marks of L & P type courses
	29 73 End Term Exam of P type courses	30 74 End Term Exam Slot A	1 75 End Term Exam Slot B	2 76 End Term Exam Slot C	3 77 End Term Exam Slot D	4 78 End Term Exam Slot E	5	End Term Exam
	6 79 End Term Exam Slot F	7 80 End Term Exam Slot G	8 81 End Term Exam Slot H	9 82 End Term Exam Slot I	10 83 PhD RPC Presentation	11	12	End Term Exam PhD RPC Presentation
	13 84 PhD RPC Presentation	14 85 PhD RPC Presentation	15 86 PhD RPC Presentation	16 87 Last Date of Special ETE PhD RPC Presentation	17 88 Last Date of Showing Answer Sheets PhD RPC Presentation	18	19	Last Date of Special ETE Last Date of Showing Answer Sheets
May 2024	20 89 Committee Meeting for Finalization & Display of Grades (L, P & V type courses) PhD RPC Presentation	21 90 Last date for Grievance PhD RPC Presentation	22 91 Registration for Supplementary Exam. Summer vacation begins for students PhD RPC Presentation	23 92 Buddha Purnima	24 93 Supplementary Exam. PhD RPC Presentation	25 94 Supplementary Exam.	26	Committee Meeting for Finalization & Display of Grades PhD RPC Presentation Summer Vacation begins (For Students)
	27 95 Supplementary Exam. PhD RPC Presentation	28 96 Summer Term Registration* PhD RPC Presentation	29 97 Last Date of Showing Answer Sheets PhD RPC Presentation	30 98 Committee Meeting for Finalization & Display of Grades PhD RPC presentation	31 99 Last date for Grievance PhD RPC Presentation	1	2	* For 4 th Year B.Tech. Students only Committee Meeting for Finalization & Display of Grades PhD RPC Presentation
June								

July 2024	3	Summer Vacation Begins For Faculty	4	5	6	7	8	9	Summer Vacation begins (For Faculty Members)				
	10		11	12	Mid Term Exam - I Slot A & B & C	13	14	15	16	Mid Term Exam - I			
	17	Eid-Ul-Zuha (Bakrid)	18	19	20	21	22	23					
	24		25	26	27	28	29	30	Mid Term Exam - II				
	1	2	3	4	5	6	7						
	8	9	10	11	12	Summer Vacation Ends for Faculty	13	14	Summer Vacation Ends For faculty				
	15	End Term Exam Slot A	16	End Term Exam Slot B	17	Muharram	18	End Term Exam Slot C	19	Last Date of Showing Answer Sheets	20	21	End Term Exam
	22	Committee Meeting for Finalization & Display of Grades	23	Last date for Grievance	24	25	26	27	28	Committee Meeting for Finalization & Display of Grades			
	29	30	Summer vacation ends for students	31	Enrolment (Without Late Fees)	1	Classes Begin	2	3	Enrolment & Classes Begin			

04.07 STUDENTS STRENGTH

04.07.1 SANCTIONED INTAKE AND ACTUAL INTAKE

Numbers of students admitted in First year B. Tech. during the year 2023-24:

B.Tech. First Year (2023 Batch):

S. No.	Branch	Duration	Sanctioned Intake	Enrolled
1.	Civil Engineering	4 Years	36	30
2.	Computer Science & Engineering	4 Years	36	35
3.	Electronics and Communication Engineering	4 Years	36	34
4.	Electrical and Electronics Engineering	4 Years	36	31
5.	Mechanical Engineering	4 Years	36	32
Total			180	162

Numbers of students admitted in First year M. Tech. during the year 2023-24:

M.Tech. First Year (2023 Batch):

S. No.	Branch	Duration	Sanctioned Intake	Enrolled
1.	Civil Engineering	2 Years	19	2+1 (self)
2.	Computer Science & Engineering	2 Years	19	6+2 (self)
3.	Electronics Engineering	2 Years	19	1+1 (self)
4.	Electrical Engineering	2 Years	19	0
5.	Mechanical Engineering	2 Years	19	0
Total			95	13

Self-Sponsored	Total	25	4
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Total 81/76 (Full Time/Part Time) students are enrolled in Ph.D. programme in various departments. In the current year, 17/13 (Full Time/Part Time) students got enrolled in the programme.

Ph.D. students (2023-24):

S. No.	Branch	Sanctioned Intake	Enrolled
1.	Civil Engineering	40	5
2.	Computer Science & Engineering		0
3.	Electronics Engineering		3
4.	Electrical Engineering		0
5.	Mechanical Engineering		2
6.	Chemistry		1
7.	Mathematics		3
8.	Physics		3
9.	English		0
Total			17

04.07.2 ENROLLMENT WITH GENDER AND CASTE BREAK-UP

A) Undergraduate Courses (B.Tech.)

Name of the Programme	Total No. of Students (all years)			Out of Total No. of student shown in Col. (2)& (3)								
				SC			ST			PWD		
B.Tech.	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1	2	3	4	5	6	7	8	9	10	11	12	13
I Year	128	34	162	20	7	27	8	3	11	1	1	2
II Year	133	33	166	21	5	26	12	2	14	3	0	3
III Year	120	33	153	21	6	27	10	4	14	1	0	1
IV Year	68	21	89	10	4	14	4	3	7	3	0	3
Total	449	121	570	72	22	94	34	12	46	8	1	9

B) Postgraduate Courses

(i) M. Tech

Name of the Programm	Total No. of Students (all years)			Out of Total No. of student shown in Col. (2)& (3)								
				SC			ST			PWD		
<i>M.Tech.</i>	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1	2	3	4	5	6	7	8	9	10	11	12	13
I Year	14	1	15	1	0	1	0	0	0	0	0	0
II Year	10	3	13	3	2	5	1	0	1	0	0	0
Total	24	4	28	4	2	6	1	0	1	0	0	0

(ii) Ph.D.

Name of the Programme	Total No. of Students (all years)			Out of Total No. of student shown in Col. (2)& (3)								
				SC			ST			PWD		
<i>Ph.D</i>	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1	2	3	4	5	6	7	8	9	10	11	12	13
	125	32	157	18	2	20	3	2	5	2	0	2

04.07.3 STUDENT ON ROLLS B.TECH. (CLASS-WISE & BRANCH-WISE) DURING 2023-24

Data as per Student Category B.Tech. (2020 Batch)										
	Number of Total Students Enrolled									
	Gen		SC		ST		OBC		Total	
	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls
CIV										
Total	5	1	1	0	2	2	7	1	15	4
PWD (Out of Total)	0	0	0	0	0	0	1	0	1	0
Muslim Minority	0	0	0	0	0	0	1	0	1	0
Other Minority	0	0	0	0	0	0	0	0	0	0
CSE										
Total	12	2	3	1	1	0	5	2	21	5
PWD (Out of Total)	1	0	0	0	0	0	0	0	1	0
Muslim Minority	0	0	0	0	1	0	1	0	2	0
Other Minority	0	0	0	0	0	0	0	0	0	0
ECE										
Total	10	4	3	1	1	0	5	1	19	6

PWD (Out of Total)	0	0	0	0	0	0	1	0	1	0
Muslim Minority	0	0	0	0	0	0	1	0	1	0
Other Minority	0	0	0	0	0	0	0	0	0	0
EEE										
Total	6	1	3	1	1	1	5	0	15	3
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0
Muslim Minority	1	0	0	0	0	0	1	0	2	0
Other Minority	0	0	0	0	0	0	0	0	0	0
MEC										
Total	7	0	4	1	2	0	6	2	19	3
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0

Data as per Student Category (2021 Batch)												
	Number of Total Students Enrolled											
	Gen		Gen EWS		SC		ST		OBC		Total	
	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls
CIV												
Total	5	0	2	0	6	3	4	0	10	3	27	6
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	1	0	1	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
CSE												
Total	9	2	7	2	5	1	3	1	11	3	35	9
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
ECE												
Total	13	4	7	2	5	1	3	2	7	1	35	10
PWD (Out of Total)	1	0	0	0	0	0	0	0	0	0	1	0
Muslim Minority	1	0	0	0	0	0	0	0	0	0	1	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
EEE												
Total	9	1	4	1	6	1	2	0	12	1	33	4

PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	1	1	0	0	0	0	1	0	2	1
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
MEC												
Total	6	2	3	0	5	0	2	1	7	1	23	4
PWD (Out of Total)	0	0			0	0	0	0	0	0	0	0
Muslim Minority	1	1	0	0	0	0	0	0	1	0	2	1
Other Minority	1	0	0	0	0	0	0	0	0	0	1	0

Data as per Student Category (2022 Batch)												
	Number of Total Students Enrolled											
	Gen		Gen Ews		SC		ST		OBC		Total	
	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls
CIV												
Total	8	1	7	3	5	1	3	1	10	2	33	8
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
CSE												
Total	16	3	6	3	5	1	3	0	8	1	38	8
PWD (Out of Total)	1	0	0	0	0	0	0	0	0	0	1	0
Muslim Minority	0	0	0	0	0	0	0	0	1	0	1	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0

ECE												
Total	9	2	7	0	5	1	3	1	12	0	36	4
PWD (Out of Total)	1	0	0	0	0	0	0	0	1	0	2	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
EEE												
Total	8	2	2	0	6	2	3	0	13	4	32	8
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	1	0	1	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
MEC												
Total	8	2	6	0	5	0	2	0	6	3	27	5
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	1	0	1	0	0	0	0	0	0	0	2	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0

Data as per Student Category (2023 Batch)												
	Number of Total Students Enrolled											
	Gen		Gen EWS		SC		ST		OBC		Total	
	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls
CIV												
Total	5	1	7	2	5	2	3	1	10	1	30	7
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0		0	0	0	0	1	0	1	0
Other Minority	0	0	0	0	0	0	1	0	0	0	1	0
CSE												
Total	10	3	6	0	5	1	3	1	11	1	35	6

PWD (Out of Total)	0	0	0	0	0	0	0	0	1	0	1	0
Muslim Minority	0	0	0	0	0	0	0	0	1	0	1	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
ECE												
Total	5	1	9	2	6	1	2	0	12	3	34	7
PWD (Out of Total)	0	0	0	0	0	0	0	0	1	1	1	1
Muslim Minority	0	0	0	0	0	0	0	0	1	0	1	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
EEE												
Total	7	1	6	2	5	1	2	1	11	2	31	7
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	1	0	1	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
MEC												
Total	7	1	4	0	6	2	1	0	14	4	32	7
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0

B. STUDENT ON ROLLS M.TECH. (CLASS-WISE & BRANCH-WISE) DURING 2023-24

Data as per Student Category M. Tech. (2021Batch)												
	Number of Total Students Enrolled											
	Gen		Gen (EWS)		SC		ST		OBC		Total	
	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls
CIV												
Total	0	0	0	0	2	1	0	0	0	0	2	1
PWD												
(Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
CSE												
Total	4	1	0	0	0	0	0	0	2	0	6	1
PWD												
(Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
ECE												
Total	0	0	0	0	1	1	1	0	0	0	2	1
PWD												
(Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
EEE												
Total	0	0	0	0	0	0	0	0	0	0	0	0
PWD												
(Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
MEC												
Total	0	0	0	0	0	0	0	0	0	0	0	0
PWD												
(Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0

Data as per Student Category M. Tech. (2022 Batch)												
	Number of Total Students Enrolled											
	Gen		Gen (EWS)		SC		ST		OBC		Total	
	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls
CIV												
Total	2	0	0	0	1	0	0	0	2	0	5	0
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
CSE												
Total	2	1	0	0	0	0	0	0	0	0	2	1
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
ECE												
Total	5	0	0	0	0	0	0	0	0	0	5	0
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
EEE												
Total	0	0	0	0	0	0	0	0	0	0	0	0
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
MEC												
Total	2	0	0	0	0	0	0	0	0	0	2	0
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	1	0	0	0	0	0	0	0	0	0	1	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0

04.08 RANCH-WISE) DURING 2023-24

Data as per Student Category												
	Number of Total Students Enrolled in Ph.D.											
	Gen		Gen (EWS)		SC		ST		OBC		Total	
	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls
CIV												
Total	12	3	1	1	2	0	3	2	6	0	24	6
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	1	0	0	0	0	0	0	0	2	0	0	0
Other Minority	0	0	0	0	0	0	1	0	0	0	0	0
CSE												
Total	18	3	0	0	6	0	0	0	3	1	27	4
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	1	0	0	0	0	0	0	0	0	1	1
ECE												
Total	13	1	0	0	6	0	0	0	2	1	21	2
PWD (Out of Total)	1	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	1	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
EEE												
Total	12	3	0	0	0	0	0	0	2	0	14	3
PWD (Out of Total)	1	0	0	0	0	0	0	0	0	0	1	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
MEC												
Total	22	0	1	0	4	0	2	0	6	0	35	0
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	1	0	0	0	0	0	0	0	0	0	1	0
Physics												
Total	4	2	1	1	1	1	0	0	3	0	9	4
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	1	0	0	0	0	0	0	0	0	0	1	0
Chemistry												
Total	8	4	0	0	1	1	0	0	1	1	10	6
PWD (Out of Total)	1	0	0	0	0	0	0	0	0	0	1	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
Mathematics												
Total	7	3	1	0	0	0	0	0	3	1	11	4
PWD (Out of Total)	0	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	1	0	1	0
Other Minority	0	0	0	0	0	0	0	0	0	0	0	0
English												
Total	4	2	1	1	0	0	0	0	1	0	6	3
PWD (Out of Total)	1	0	0	0	0	0	0	0	0	0	0	0
Muslim Minority	0	0	0	0	0	0	0	0	0	0	0	0
Other Minority	1	0	0	0	0	0	0	0	0	0	1	0

DEPARTMENTS

05.01 DEPARTMENT OF CIVIL ENGINEERING

Department of Civil Engineering, N.I.T. Uttarakhand, was established in 2013 with an intake of 60 students. The department offers a four-year course leading to a bachelor's degree in civil engineering. The Department of Civil Engineering has an advanced academic structure with core courses and various elective courses so that the student's knowledge is enhanced in the core discipline and the related disciplines. The department also offers postgraduate courses in Structural Engineering and Transportation Engineering along with a Ph.D. degree program in all civil engineering specializations.

Vision: To achieve recognition through academic excellence and exemplary research for sustainable infrastructure development with special emphasis on hilly terrains.

Mission:

- Nurturing students with technical knowledge of Civil Engineering with an emphasis on hilly terrains.
- Develop center of excellence for pertinent natural hazards in Himalayan region.
- Conduct pioneering research on sustainable infrastructural development.
- Providing outreach services and technical expertise to various stakeholders of the society.
- Achieving professional ethics and code of conduct.

ACADEMIC STAFF: 11

S.No.	Faculty Name	Designation	Areas of Specialization
1.	Dr. A. K. Anupam	Head & Assistant Professor	• Transportation Engineering • Pavement Materials • Pavement Evaluation • Ground Improvement Techniques • Traffic Engineering
2.	Dr. Kranti Jain	Associate Professor (Head From 16.12.2021 to 28.09.2023)	• Structural concrete • Non Destructive testing of materials • Retrofitting and Rehabilitation of structures • Shear behaviour of SFRC beams
3.	Dr. Vikas Pratap Singh	Associate Professor	• In-situ earth retaining structures • Soil nailing technique, • Reinforced earth, analytical and computational modelling of geotechnical structures • Reliability-based analysis, and ground improvement techniques

4.	Dr. Smita Kaloni	Assistant Professor (Head From 29.09.2023)	• Structural Engineering. • Structural Dynamics • Earthquake Resistant Design. • Structural Health Monitoring.
5.	Dr. Shashank Bhatra	Assistant Professor	• Geotechnical Engineering • Foundation Engineering • Stability Analysis of Slopes • Stability Analysis of Underground Excavations • Earth Retaining Structures • Ground Improvement Techniques • lumped Parameter Modelling of Reinforced Earth Bed • Influence of Dynamic Loads on Geotechnical Engineering Structures.
6.	Dr. Shashi Narayan	Assistant Professor	• Computational mechanics • Behaviour of Cold Form Steel Shear wall panels • Base Isolation Techniques • Earthquake engineering • Wind engineering • Soil structure Interaction • Fluid Structure Interaction • Structural Engineering • Finite Element Method • Meshless Method
7.	Dr. Bibhash Kumar	Assistant Professor	• Stability Analysis of Tunnels/Underground Structures • Bearing Capacity of Foundations • Pull Out Capacity of Anchors • Strength Behaviour of Rocks • Reinforced Earth Structures
8.	Dr. Muskan Mayank	Assistant Professor	• Groundwater Hydraulics • Sediment Transport and Control • Hydrological Safety and Risk Assessment of Hydraulic Structures • Unsaturated flow modelling
9.	Dr. Amardeep	Assistant Professor	• Structural concrete • Fiber Reinforced Concrete • Concrete Structures, • Bridge Engineering, • Contracts in Construction, • Engineering Economics
10.	Dr. Abhinav Kumar	Assistant Professor	• Traffic Engineering • Road Traffic Safety • Statistical Techniques and Modeling in Traffic Engineering • Road User Behavior
11.	Dr. Akhilesh Nautiyal	Assistant Professor	

NON-TEACHING STAFF : 02

S.No.	Name	Designation
1.	Mr. Sushil Kumar	Technician (Surveyor)
2.	Mr. Chandramohan	Technician (Plumber)

Ph.D. STUDENTS: 23 (13 Full Time and 1 Part Time)

S. No.	Roll No.	Name	Full / Part Time	Supervisor	Co-Supervisor	Status
1.	DT19CEJ003	Aayush Joshi	Part-Time	Dr. Kranti Jain	---	Ongoing
2.	DT19CEJ004	Pramod Tiwari	Full-Time	Dr. Kranti Jain	---	Ongoing
3.	DT20CEJ002	Mahavir Singh Rawat	Part-Time	Dr. Smita Kaloni	---	Ongoing
4.	DT20CEJ003	Praveen Kumar Yadav	Part-Time	Dr. Kranti Jain	---	Ongoing
5.	DT20CEJ005	Ashuvendra Singh	Part-Time	Dr. Smita Kaloni	---	Ongoing
6.	DT20CEJ006	Shradha V Kivade	Part-Time	Dr. Shasank Bhatra	---	Ongoing
7.	DT20CEJ007	Uden Kiroung Sherpa	Part-Time	Dr. Aditya Kumar Anupam	---	Ongoing
8.	DT21CEJ001	Tanuja Khatri	Full-Time	Dr. Smita Kaloni	---	Ongoing
9.	DT21CEJ003	Shailja Joshi	Full-Time	Dr. Shashank Bhatra	---	Ongoing
10.	DT21CEJ004	Rahul Raj	Full-Time	Dr. Muskan Mayank	---	Ongoing
11.	DT21CEJ005	Chetana	Full-Time	Dr. Shashank Bhatra	---	Ongoing
12.	DT23CEJ001	Shahrukh	Full-Time	Dr. Vikas Pratap Singh	---	Ongoing
13.	DT23CEJ002	Mubasshir Hussain	Full-Time	Dr. Bibhash Kumar	---	Ongoing

14.	DT23CEJ003	Jyoti Prakash Semwal	Part-Time	Dr. Abhinav Kumar	---	Ongoing
15.	DT23CEJ004	Dharampal Singh Kandari	Full-Time	Dr. Aditya Kumar Anupam	---	Ongoing
16.	DT23CEJ005	Shivam Uniyal	Full-Time	Dr. Shashi Narayan	---	Ongoing
17.	DT23CEJ006	Sameer Verma	Part-Time	Dr. Muskan Mayank	---	Ongoing
18.	DT23CEJ007	Sunil Kumar Verma	Part-Time	Dr. Amardeep	---	Ongoing
19.	DT24CEJ001	Pawan Kumar Nishad	Full-Time	Dr. Abhinav Kumar	---	Ongoing
20.	DT24CEJ002	Mohd Shuaib Ibrahim	Part-Time	Dr. Amardeep	Dr. Bibhash Kumar	Ongoing
21.	DT24CEJ003	Pankaj Kirthwan	Full-Time	Dr. Amardeep	Dr. Smita Kaloni	Ongoing
22.	DT24CEJ004	Nisha Sahal	Full-Time	Dr. Smita Kaloni	Dr. Shashank Bhatra	Ongoing
23.	DT24CEJ005	Amit Kumar	Full-Time	Dr. Akhilesh Nautiyal	---	Ongoing

RESEARCH AND DEVELOPMENT INFRASTRUCTURE/LABORATORIES:

- Soil Testing Lab
- Engineering Geology Lab
- Fluid Mechanics Lab
- Environmental Engineering Lab
- Surveying Lab
- Concrete Testing Lab
- Building Material Testing Lab
- Transportation Engineering Lab
- Computational Facilities

Major facilities in the Department

- Testing Facilities
- Triaxial Test
- Universal Permeability Test
- Consolidation Test
- Plate Load test
- Creep Testing machine
- Servo Controlled Compression Testing Machine (CTM)
- Rebound Hammer
- Self-Compacting Concrete equipments
- Air/Water Permeability test for concrete
- CBR Test
- Marshall Test
- Benkelman Beam Test
- Diamond Core Cutter
- Dynamic Shear Rheometer
- Centrifugal Extractor
- Centrifuge
- Muffle Furnace
- UV-Vis Spectrophotometer
- Distilled water Apparatus
- COD Digester
- Photometer
- Skid Resistance test

BUILDING MATERIAL AND CONSTRUCTION MANAGEMENT LAB



CONCRETE TESTING LAB



FLUID MECHANICS LAB



ENGINEERING GEOLOGY LAB



SOIL TESTING LAB



SURVEY LAB



ENVIRONMENTAL ENGINEERING LAB



TRANSPORTATION ENGINEERING LAB



FORENSIC ENGINEERING AND REHABILITATION OF STRUCTURES LAB



DETAILS OF R&D PROJECTS:

S. No.	Title of the R&D Project--	Funding Agency	Name of PI/Co-PI	Sanctioned Amount Rs. (in Lacs)	Status
1	Development of empirical model for fundamental natural period of buildings constructed in hilly Terrains	SERB	PI-Dr. Smita Kaloni, Co. PI-Dr. Shashank Bhatra	₹40.87	Ongoing
2	Study of Drainage pattern in Srinagar Garhwal city and its influence on hill slope stability	HEFA CSR	PI-Dr. Vikas Pratap Singh	₹38.88	Ongoing

DETAILS OF CONSULTANCY PROJECTS:

S.N.	Consultancy Project Given by	Name of Project Investigator	Co-PI	Consultancy Amount (₹)	Status
1.	Kulbhushan Mittal & Associates	Dr. Shashi Narayan	-----	1,18,000/-	Completed
2.	STPS, MPPGCL, SARNI	Dr. Amardeep	Dr. Shashi Narayan		
3.	M/s Keslec Design Solution	Dr. Shashi Narayan	-----	23,600/-	Completed
4.	M/s Keslec Design Solution	Dr. Shashi Narayan	Dr. Amardeep	2,18,300/-	

5.	Hira Ferro Alloys Ltd	Dr. Shashi Narayan	Dr. Amardeep		
6.	A TO Z FAÇADE SOLUTIONS	Dr. Shashi Narayan	Dr. Amardeep	23,600/-	Completed
7.	PWD Saharanpur	Dr. Aditya Kumar Anupam	-----	59,000/-	Completed
8.	66 Road Constr (GREF) (M/s Petrochem Specialities)	Dr. Aditya Kumar Anupam	-----	70,800/-	Completed
9.	Engineer Mantra, Dehradun	Dr. Kranti Jain	-----	47,200/-	Completed
10.	M/s RCC Developers Limited.	Dr. Aditya Kumar Anupam	-----	41,300/-	Completed
11.	MPPGCL, Dongaliya, MP	Dr. Amardeep	Dr. Shashi Narayan	3,42,200/-	

HIGHLIGHTS/ACHIEVEMENTS:

- Publications in National/International Journals**

1. Dahiya, A., and Mishra, S. K. (2023, August). "Rheological and Flexural Properties of High Strength Cementitious Composite Reinforced with L-shaped end Super-elastic Short Fibers." Journal of Materials in Civil Engineering.
2. Shrivastava, A., & Kumar, A. (2023, March). Modified social force model for pedestrian-vehicle interactions at a signalized intersection. Transportation Letters, 1-13.
3. Kaloni, S., Tiwari, P., & Singh, G. (2023, February). User-defined high impulsive frequency acquisition model for mechanical damage identification. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics,

14644193231157176.

- Publications in National/International Conferences**

1. Muskan, M. (2023, February). Investigating the flow mechanism of contaminant transport in groundwater. ICSTE-23: 1st International conference on Science, Tech. & Engineering-2023, NIT Manipur, India.

DETAILS OF CONFERENCES/STC/FDPs/ EXPERT LECTURES ETC ORGANIZED:

- Prof. Praveen Kumar (Presenting)

1 DEFORMATIONS-TYPES

FIGURE 19.3 Sketch of road surface deformations. Source: Austroads, 1987.

Prof. Praveen Kumar

Ankit Sharma

Bishabh Thapliyal

Ashutosh Saini

Atulya Kumar

Abhinav Kumar

Anshu Parthar



Tuhong Wang (Presenting)

Characterizing fundamental bitumen properties

Bitumen Tests

Polynuclear aromatic (3)

Phenolic (2)

3-Quaterlene type (2)

Pyrazole (2)

Pyridine (2)

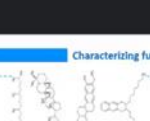
Sulfide (2)

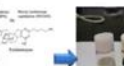
Sulfonide (2)

Anthracene (2)

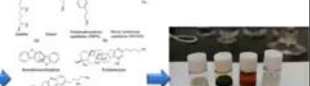
Carboxylic acid (1,2)

Ketone (2)





Petersen, J. Claire: "A review of the fundamentals of asphalt oxidation: chemical, physicochemical, physical property, and durability relationships." Transportation Research Circular E-C140 (2009).





Shashank Bhatra

Engineering



Gourav Pooniya

Engineering



Kanwarpreet Singh

Engineering



Anish Bhatia

Engineering



Sushant Singh

Engineering



Sushant Singh

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- "Highways in Hilly Region (HHR-2024)" organized by the Department of Civil Engineering, NIT Uttarakhand, from January 17th to January 21st, 2024. Coordinators-Dr. A.K. Anupam, Dr. Shashank Bhatra, Dr. Abhinav Kumar, Dr. Akhilesh Nautiyal & Convenor Dr. A. K. Anupam and Dr. Abhinav Kumar & Convener-Dr. Smita Kaloni.
- Road Traffic Safety, 09/10/2023 to 13/10/2023, Organizers-Dr. Kranti Jain, Dr. A.K. Anupam and Dr. Abhinav Kumar.
- Landslide risk assessment mitigation, 01/09/2023 to 05/09/2023, Organizers-Dr. Kranti Jain, Dr. Vikas Pratap Singh, Dr. Shashank Bhatra and Dr. Bibhash Kumar.
- Innovation in Bridge Design, 17/05/2023 to 21/05/2023, Organizers-Dr. Kranti Jain, Dr. Smita Kaloni and Dr. Amardeep.

- Analysis and Design of Dams, 01/04/2023 to 05/04/2023, Organizers-Dr. Kranti Jain, Dr. Muskan Mayank, Dr. Smita Kaloni, Dr. Shashank Bhatra and Dr. Bibhash Kumar

DETAILS OF CONFERENCES/STC/FDPS ATTENDED:

1. Dr. Abhinav Kumar presented a research paper titled " Capacity Estimation on Hilly Road Under Heterogeneous Traffic Condition" at 7th Conference of Transportation Research Group of India (CTRG) – scheduled during December 17-20, 2023, at Surat.

Swayam/NPTEL/MOOCs Courses:

S. No.	Name of the course	Organizing Institute/ Agency	Name of Institute Course Coordinator	No. students Registered	Duration
1.	Ground Improvement	IIT Kharagpur	Prof. Dilip Kumar Baidya	01	04 months
2.	Research Methodology and Statistical Analysis	IGNOU, New Delhi	Prof (Dr) Subodh Kesarwani	01	04 months
3.	Communication Skills	IGNOU, New Delhi	Prof. Zuchamo Yanthan	01	04 months
4.	Geometric Design of highways	IIT Roorkee	Prof. Rajat Rastogi	01	04 months

OUTREACH ACTIVITIES:

1. On 27th July 2023, a technical committee consisting of faculty members namely Dr. Shashank Bhatra, Dr. Vikas Pratap Singh, Dr. Smita Kaloni and Dr. Bibhash Kumar from the Department of Civil Engineering, NIT Uttarakhand alongwith HNBG University officials visited SRT Campus Badshahithaul Tehri to explore for technical solutions and devise preventive measures to restrict the sinking floor and tilted columns.



Technical Committee of NIT Uttarakhand with HNBGU officials.

2. Dr. Shashank Bhatra delivered lecture on “Conflict Resolution and Negotiation Skills” in the Soft Skills workshop on Capacity Building of Subordinate Officers on 19.09.2023 and 12.12.23 at Centralized Training Center, Sashastra Seema Bal (SSB), Srinagar (Garhwal).
3. Dr. Abhinav delivered an expert talk on “Interpersonal Skills” in Capacity Building of Subordinate Officers during the Soft Skill Workshop at Centralized Training Center, Sashastra Seema Bal (SSB), Srinagar, Garhwal on December 13, 2023.



Dr. Abhinav Kumar receiving memento at SSB Srinagar



Dr. Shashank Bhatra receiving memento at SSB Srinagar

STUDENT'S ACHIEVEMENTS:

1. Suraj Prajapat (BT20CIV007) presented a research paper titled "Impact of Geometric Characteristics on Capacity of Hill Road" at 16th Urban Mobility India (UMI-RS 23) Conference and Expo 2023– scheduled during October 27-29, 2023, at New Delhi.
2. Mayank Bhandari (BT20CIV001) presented a research paper titled "Speed analysis on hill roads in mixed traffic conditions" at 7th Conference of Transportation Research Group of India (CTRG) during December 17-20, 2023, at Surat.
3. Chirag Nagar (BT19CIV017) presented a research paper titled “Effect of Pedestrians on Vehicular Speed and Capacity of Hilly Roads” at 7th Conference of Transportation Research Group of India (CTRG) during December 17-20, 2023, at Surat.
4. Students Mr. Shrey Gupta (BT20CIV006) , and Mr. Saurav Raturi (BT20CIV010) successfully presented their work titled “Effect of Vertical Irregularities on Buildings in Different Seismic Zones of India” and “1D Consolidation of Soil at Sumari, Uttarakhand considering Variable Compressibility” respectively in the International Association for Bridge and Structural Engineering (IABSE) Congress New Delhi 2023

on “Engineering for Sustainable Development” held from 20th to 22nd September, 2023.

- Research Scholar, Chetana (BT21CEJ005) successfully presented her work titled “Green Foundations: A Sustainable Approach to Uplift Resistance with Granular Anchor Piles in Comparison to Concrete Piles.” in the International Conference on

Environmental Sustainability and Climate Change (ICESCC 2023) held between 21st-22nd December, 2023, NIT Meghalaya, Shillong, India.

Research Scholar, Shailja Joshi (BT21CEJ003) successfully presented her work titled “Nonlinear analysis of double beam model for railroads resting over reinforced ground.” 13th Structural Engineering Convention (SEC2023) held between 7th - 9th December 2023 at VNIT Nagpur.

STUDENT PROJECTS:

S. No.	Topics	Students group			Name of supervisor
1.	Evaluation and updatation of CFSWSWP material model in OpenSEES.	Brijesh Dangwal (BT21CIV005)	Aman Singh (BT21CIV019)	Madan Mohan (BT21CIV014)	Dr. Shashi Narayan
2.	Laboratory studies and probabilistic analysis of soil liquefaction	Lalit Khewadia (BT21CIV002)	Vineet Kumar (BT21CIV022)	Rahul Kumar (BT21CIV023)	Dr. Vikas Pratap Singh
3.	Evaluating quality of service for intra city taxi system				Dr. Abhinav Kumar
4.	Stability analysis of tunnels using OPTUM G3	Dande Pavan (BT21CIV006)	Vaibhav Kumar Gupta (BT21CIV021)	Himanshu Rawat (BT21CIV028)	Dr. Bibhash Kumar
5.	Utilization of RAP in hot mix design	Swati Verma (BT21CIV009)	Manasvi Katiyar (BT21CIV007)	Yadav Radhika Rajiv Ranjan (BT21CIV020)	Dr. Aditya Kumar Anupam
6.	Seismic Analysis of irregular buildings	Devraj Arya (BT21CIV001)	Saurabh Suman (BT21CIV011)	Harsh Kumar (BT21CIV003)	Dr. Smita Kaloni

7.	Effect of soil-structure interaction on buildings on hill slopes	Aayush Dharmshaktu (BT21CIV018)	Manish Chauhan (BT21CIV010)	Yash Kumar (BT21CIV012)	Dr. Smita Kaloni
8.	Design and Development of an Excel VBA Tool for Steel Structure Design.	Nihar Choudhary (BT21CIV016)	—	—	Dr. Amardeep
9.	LULC Mapping of Srinagar, Garhwal	Aanya Dahayat (BT21CIV013)	Rizwan Khan (BT21CIV029)	Ujjwal Aggarwal (BT21CIV008)	Dr. Akhilesh Nautiyal

PLACEMENT DATA (B.Tech/M.Tech/ PhD):

S. No.	Roll No.	Name	Companies Placed	Package (LPA)
1.	BT20CIV006	Shrey Pradhan	Larsen & Toubro (L&T) Ltd.	6.5 LPA
2.	BT20CIV019	Deepika Sharma	Larsen & Toubro (L&T) Ltd.	6.5 LPA
3.	BT20CIV008	Balkishan Teli	MKC Infrastructure Ltd.	8.0 LPA
4.	BT20CIV014	Nikita Meena	Indus Tower	9.5 LPA

OTHER ACTIVITIES:

1. The Department of Civil Engineering conducted laboratory experiments for AMIE Section B students (Institution of Engineers (India), Kolkata) for the winter 2022 session during December 04-08, 2023. The students from various government departments such as PWD, Irrigation Department, THDC, Rural Works Department enrolled for the examination.



Hon'ble Director Prof. Lalit Kumar Awasthi with the group of AMIE students and the faculty members of Department of Civil Engineering

05.02 COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

The Department of Computer Science and Engineering is an integral part of National Institute of Technology, Uttarakhand. The department came into existence in 2010 and thereafter has been imparting significant contributions in the growth of the Institute. The department is equipped with the latest computers including workstations with Intel Xeon processors and two powerful servers from Dell and IBM. The department has got a good mixture of fresh as well as experienced faculties for fostering quality education to students. The faculty members are working in the potential research areas like Network Security, Cryptography, Image Processing, Cloud Computing and Machine Learning, etc. Presently, the department is offering an undergraduate programme (B.Tech.), postgraduate programme (M.Tech. specialized in Artificial Intelligence & Machine Learning) and a Ph.D. programme.

Vision: To foster an ecosystem of global standards in the field of computing to serve industry and society.

Mission:

- (i) Establish high end computing facilities for technical education, research and skill development.
- (ii) Impart education to meet next generation computing challenges.
- (iii) To promote recent and futuristic advances in the field of computing for sustainable

development.

(iv) To produce skilled engineers and researchers to serve industry and society globally.

ACADEMIC STAFF:

S.No.	Faculty Name	Designation	Areas of Specialization
1.	Dr. Maroti Deshmukh	Head and Assistant Professor	Cryptography, Secret Sharing Schemes, Machine Learning
2.	Dr. Abhimanyu Kumar	Assistant Professor	Cryptography, Cryptographic Key Establishment, Secure Multicasting, Smart Grid Applications, Attribute Based Cryptography
3.	Dr. Surendra Singh	Assistant Professor	Computer Networks, Secure Real-Time System, Network Security, Vehicular and Mobile Ad-hoc network.
4.	Dr. Sneha Chauhan	Assistant Professor	Network Security, Cryptography, Logical Analysis of Data, Machine learning
5.	Dr. Maheep Singh (On Lien)	Assistant Professor	Image Processing and Computer Vision, Salient Object Detection, Machine Learning

NON-TEACHING STAFF :

S.No.	Name	Designation	S.No.	Name	Designation
1.	Mr. Vikas Kothari	Technical Assistant (On Lien)	5.	Mr. Manoj Kumar	Technician (On Lien)
2.	Mr. Vikas Singh Chauhan	Technical Assistant	6.	Mr. Yudhbir Singh Negi	Technician
3.	Mr. Rajesh Kumar	Technical Assistant	7.	Mr. Robin Manish Kujur	Technician
4.	Mr. Jai Dev	Technician	8.	Mr. Sachin Sharma	Technician (On Lien)

Ph.D. STUDENTS :

S. No.	Roll No.	Name of the Scholar	Full / Part Time	Supervisor	Co-Supervisor	Status
1.	DT17CSJ001	Manisha	Full Time	Dr. Nitin Kumar	-	Awarded

2.	DT17CSJ002	Vivek Kumar Singh	Full Time	Dr. Nitin Kumar	-	Awarded
3.	DT16CSJ001	Shiv Naresh Shivhare	Part Time	Dr. Nitin Kumar	-	Awarded
4.	DT19CSJ001	Prabhjot Kaur	Part Time	Dr. Nitin Kumar	Dr. Maheep Singh	Awarded
5.	DT19CSJ003	Soni Chaurasia	Part Time	Dr. Kamal Kumar	-	Awarded
6.	DT20CSJ008	Alok Negi	Part Time	Dr. Krishan Kumar	-	Awarded
7.	DT20CSJ005	Parul Saini	Part Time	Dr. Krishan Kumar	-	Awarded
8.	DT20CSJ006	Arjun Singh Rawat	Full Time	Dr. Maroti Deshmukh	Dr. Maheep Singh	Awarded
9.	DT19CSJ002	Arun Singh Badhwal	Full Time	Dr. Kamal Kumar	-	Awarded
10.	DT20CSJ009	Sachin Choudhary	Full Time	Dr. Abhimanyu Kumar	Dr. Krishan Kumar	Submitted
11.	DT21CSJ001	Manmohan Pundir	Full Time	Dr. Abhimanyu Kumar	-	Ongoing
12.	DT21CSJ002	Harendra Singh	Full Time	Prof. Lalit Kumar Awasthi	Dr. Nitin Kumar	Ongoing
13.	DT21CSJ004	Sandeep Chand Kumain	Full Time	Dr. Maheep Singh	Prof. Lalit Kumar Awasthi	Submitted
14.	DT21CSJ008	Kashid Shamal Sanjay	Full Time	Prof. Lalit Kumar Awasthi	Dr. Krishan Kumar	Ongoing
15.	DT22CSJ003	Priyanka Belwal	Full Time	Dr. Surendra Singh	-	Ongoing

16.	DT22CSJ004	Vinay Prasad Tamta	Full Time	Prof. Lalit Kumar Awasthi	Dr. Kamal Kumar	Ongoing
17.	DT23CSJ001	Rakhi Nautiyal	Full Time	Dr. Maroti Deshmukh	-	Ongoing
18.	DT20CSJ001	Neeraj Rathore	Part Time	Dr. Abhimanyu Kumar	Dr. Maheep Singh Dr. Kamal Kumar	Ongoing
19.	DT20CSJ002	Arvind Kumar Vishwakarma	Part Time	Dr. Maroti Deshmukh	-	Ongoing
20.	DT20CSJ003	Shubhashish Goswami	Part Time	Dr. Abhimanyu Kumar	-	Ongoing
21.	DT20CSJ004	Gaurav Sharma	Part Time	Dr. Maheep Singh	-	Ongoing
22.	DT20CSJ007	Amit Panwar	Part Time	Dr. Abhimanyu Kumar	-	Ongoing
23.	DT20CSJ010	Bhawana Parihar	Part Time	Dr. Maroti Deshmukh	-	Ongoing
24.	DT20CSJ011	Baldivya Mitra	Part Time	Dr. Maroti Deshmukh	Dr. Abhimanyu Kumar	Ongoing
25.	DT20CSJ012	Kushal Gupta	Part Time	Dr. Surendra Singh	-	
26.	DT20CSJ013	Devendra Prasad	Part Time	Dr. Praveen Kumar	Prof. Lalit Kumar Awasthi	Ongoing
27.	DT21CSJ003	Vivek Tomar	Part Time	Dr. Maroti Deshmukh	Dr. Maheep Singh Dr. Nitin Kumar	Ongoing

28.	DT21CSJ005	Kavi Bhushan	Part Time	Dr. Surendra Singh	Dr. Kamal Kumar Dr. Praveen Kumar	Ongoing
29.	DT21CSJ006	Vivek Kumar	Part Time	Dr. Kamal Kumar	Dr. Maheep Singh Dr. Nitin Kumar	Ongoing
30.	DT21CSJ007	Ajeet Kumar Bhartee	Part Time	Dr. Surendra Singh	-	Ongoing
31.	DT22CSJ001	Deep Kumar	Part Time	Prof. Lalit Kumar Awasthi	-	Ongoing
32.	DT22CSJ002	Govind Rahul Kumar	Part Time	Prof. Lalit Kumar Awasthi	Dr. Surendra Singh	Ongoing
33.	DT22CSJ005	Pankaj Pratap Singh	Part Time	Prof. Lalit Kumar Awasthi	Dr. Maheep Singh	Ongoing
34.	DT24CSJ001	Hemant Kumar	Part Time	Dr. Abhimanyu Kumar	-	Ongoing
35.	DT24CSJ002	Pande Dinesh Babulal	Part Time	Dr. Maroti Deshmukh	-	Ongoing

RESEARCH AND DEVELOPMENT INFRASTRUCTURE/LABORATORIES:

The Computer Science and Engineering department of the institute consists of five which are equipped with software's such as C/C++ compilers, Java RunTime Environment, Python, Oracle 11g, MATLAB, Cisco Packet Tracer, PHP with MySQL, Microsoft Office, Ubuntu 22.04 etc.

S.No.	Name of Laboratory	No. of Computer Systems	Software Installed
1	Programming Lab	25	C/C++ , JAVA, Mysql, Python
2	Linux Lab	32	C/C++ , JAVA, Mysql, Python
3	Network Lab	33	C/C++ , JAVA, Mysql, Python
4	Software Lab	30	C/C++ , JAVA, Mysql, Python MATLAB
5	Project Lab	17 Workstations	Matlab, Weka, Cisco Packet Tracer • PHP with MySql

Programming Laboratory:

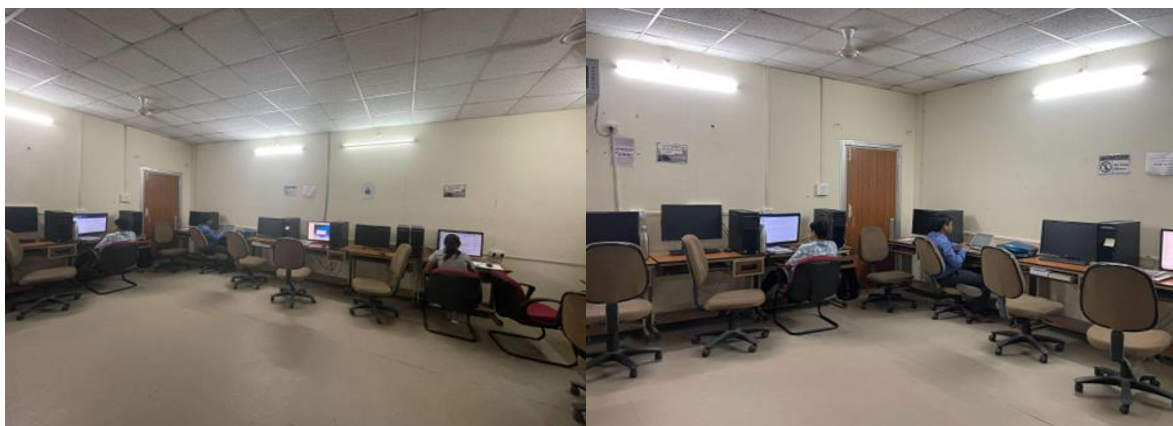
Name of Laboratory	Hardware Configuration	
Programming Lab	Operating System	Windows 10, Ubuntu 22.04
	Processor	Intel core i3
	RAM	4 GB
	Hard Disk	500 GB
	Graphics Card	Inbuilt
	Display	19 inch
	Switch	Dlink

Network Laboratory:

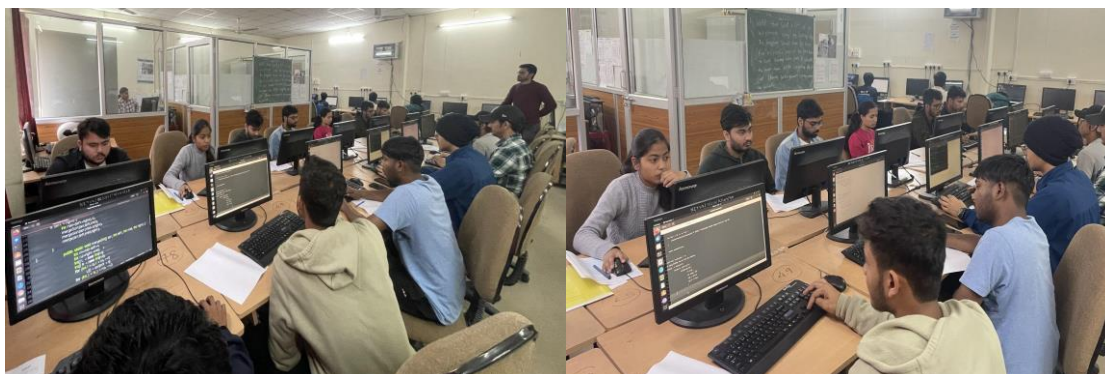
Name of Laboratory	Hardware Configuration	
	Operating System	Windows 10, Ubuntu 22.04
Network Lab	Processor	Intel core i3
	RAM	4 GB
	Hard Disk	500 GB
	Graphics Card	Inbuilt
	Display	19 inch
	Switch (Manageable)	Netgear 48 Port

Software Laboratory:

Name of Laboratory	Hardware Configuration	
	Operating System	Windows 10, Ubuntu 22.04
Software Lab	Processor	Intel core i7
	RAM	8 GB
	Hard Disk	1 TB
	Graphics Card	1 GB NVIDIA
	Display	23 inch
	Switch	Dlink

Project Laboratory:

Name of Laboratory	Hardware Configuration	
	Operating System	Windows 10/11, Ubuntu 22.04
Project Lab	Processor	Intel Xeon(R)E52620 v3
	RAM	16 GB
	Hard Disk	1 TB
	Graphics Card	2 GB NVIDIA
	Display	23 inch
	Switch (Manageable)	Netgear 24 Port

Linux Laboratory:

Name of Laboratory	Hardware Configuration	
Linux Lab	Operating System	Windows 10, Ubuntu 22.04
	Processor	Intel core i3
	RAM	4 GB
	Hard Disk	500 GB
	Graphics Card	Inbuilt
	Display	19 inch
	Switch (Manageable)	Netgear 48 Port

Ph.D Research Facilities:

1.	Project Lab	18 Workstations	Software Installed: Matlab, Weka, Cisco Packet Tracer 1. PHP with MySql
		Operating System	Windows 10/11, Ubuntu 22.04
		Processor	Intel Xeon(R)E52620 v3
		RAM	16 GB
		Hard Disk	1 TB
		Graphics Card	2 GB NIVIDIA
		Display	23 inch
		Switch (Manageable)	Netgear 24 Port

PUBLICATIONS

1. S. Singh, "Energy efficient Security Driven Scheduling of Real-Time Tasks using DVS-enabled Fog Networks", *Simulation Modelling Practice and Theory*, 134, 102941, 2024. (Impact Factor-4.2, SCIE, Q1)
2. S. Singh, A systematic review on security aware real-time task scheduling, *Sustainable Computing: Informatics and Systems*, 38, 100872, 2023, Impact Factor-4.5, SCIE, Q1.
3. S. Singh, et al., *Fog Intelligence for Energy Optimized Computation in Industry 4.0*, Springer (Book Chapter), 2023.
4. Manvi, S., Singh, S., A. K. Chaubey, *The Anthropocene in South Asian Popular Music: A Critical Examination of Papon's Waise Hi Rehna, Waise Hi Behna through an Ecomusicological Lens*, Springer (Book Chapter), 2024.
5. Bhawana Parihar, Maroti Deshmukh, Arjun Singh Rawat. "A Survey on Counting-Based Secret Sharing Schemes for Resource-Constrained Environments: Techniques, Security, Challenges, and Future Directions", *Journal of Supercomputing*, Springer, ISSN: 1877-0509, 2024. (SCI, Impact Factor:3.3)
6. Bhawana Parihar, Maroti Deshmukh, Arjun Singh Rawat. "Efficient Single Secret Image Sharing in Resource-Constrained Environment using Counting-Based Secret Sharing over Cloud", *Procedia Computer Science*, Elsevier, vol. 230, pp. 158-167, ISSN: 1877-0509, DOI: <https://doi.org/10.1016/j.procs.2023.12.071>, 2023. (Scopus, CiteScore:4)
7. Baldivya Mitra, Maroti Deshmukh, Abhimanyu Kumar. "A Novel Approach for Single-Shot Target Recognition by Matching Graph of Feature Pixels", *Procedia Computer Science*, Elsevier, pp. 1–9, ISSN: 1877-0509, 2023.(Scopus, CiteScore:4)
8. Baldivya Mitra, Maroti Deshmukh, Abhimanyu Kumar. "Analysis of Deep Learning based Models for Automatic Target Recognition using Synthetic Aperture Radar Imagery", *International Journal of Intelligent Systems Technologies and Applications*, Inderscience, pp. 1–14, ISSN: 1740-8873, 2023. (Scopus, CiteScore:1.8)
9. Maroti Deshmukh, Arjun Singh Rawat. "Secure Key Sharing Scheme using Hamiltonian Path", *International Journal of Information Technology*, Springer, vol. 15, pp. 4141–4147, ISSN: 2511-2112, DOI: 10.1007/s41870-023-01502-5, 2023. (Scopus)
10. Maroti Deshmukh, Arjun Singh Rawat. "Lightweight Symmetric Key Encryption for Text using XOR Operation and Permutation Matrix", *International Journal of Information Technology*, ISSN: 2511-2112, DOI:<https://doi.org/10.1007/s41870-023-01407-3>, pp. 1–8, Springer, 2023. (Scopus). Sandeep Chand Kumain, Maroti Deshmukh, Maheep Singh. "Extended Diffie Hellman Protocol Based on Exponential and Multiplication Operation Over Modular Arithmetic", *International Journal of Communication Networks and Distributed*

- Systems, ISSN: 1754-3924, DOI: 10.1504/IJCND.2024.10058942, Inderscience, 2023. (Scopus, CiteScore: 2.5)
11. Maroti Deshmukh, Arjun Singh Rawat. "Image and Object Encryption using Multiplicative Cipher and K-Means Clustering Algorithm", International Journal of Applied Cryptography, ISSN: 1753-0571, DOI: 10.1504/IJACT.2023.10060005, Inderscience, 2023. (Scopus, CiteScore: 1.9)
12. Arjun Singh Rawat, Maroti Deshmukh, Maheep Singh. "Natural Shares based Lightweight (n, n) Single Secret Image Sharing Scheme using LSB Stuffing for Medical Images", Journal of Supercomputing, ISSN:1573-0484, DOI: <https://doi.org/10.1007/s11227-023-05396-9>, pp. 1-30, Springer, 2023. (SCI, Impact Factor: 3.3)
13. Dinesh Pande, Arjun Singh Rawat, Maroti Deshmukh, Maheep Singh. "Single Secret Sharing Scheme using Chinese Remainder Theorem, Modified Shamir's Scheme and XOR Operation", Wireless Personal Communications, DOI: <https://doi.org/10.1007/s11277-023-10315-5>, ISSN: 1572-834X, vol. 130, pp. 957–985, Springer, 2023. (SCIE, Impact Factor: 2.2)
14. Arjun Singh Rawat, Maroti Deshmukh, Maheep Singh. "A Novel Multi Secret Image Sharing Scheme for Different Dimension Secrets", Multimedia Tools and Applications, ISSN: 1573-7721, DOI: <https://doi.org/10.1007/s11042-023-14609-5>, pp. 1-37, Springer, 2023. (SCIE, Impact Factor:3.6)
15. Maroti Deshmukh, Arjun Singh Rawat. "Secure Key Exchange Protocol using Graph and Trusted Third Party", International Journal of Communication Networks and Distributed Systems, ISSN: 1754-3924, DOI: 10.1504/IJCND.2024.10057678, Inderscience, 2023. (Scopus, CiteScore: 2.5)
16. Bhawana Parihar, Maroti Deshmukh, Arjun Singh Rawat. "CSBC: Cloud-based Secret image sharing using Bit-flip and Counting scheme", Lecture Notes in Electrical Engineering, ISSN. 1876-1119, Springer, 2023.
17. Arvind Vishwakarma, Maroti Deshmukh. "CNN-FD:deep Convolutional Neural Network model for Fire Detection", 7th International Conference on Computer Applications in Electrical Engineering-Recent Advances (CERA), IEEE, pp. 1-6, IIT Roorkee, 2023.
18. Arvind Vishwakarma, Maroti Deshmukh. "An Intelligent Image Fire Detection Approach Based On Deep Convolutional Neural Network", 14th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IEEE, pp. 1-6, IIT Delhi, 2023.
19. Abhishek Dhiman, Maroti Deshmukh. "Key-Frame based Video Summarization using Optimized K-means Clustering", International Conference on Computer, Electronics & Electrical Engineering and Their Applications (IC2E3), IEEE, pp. 1-6, NIT Uttarakhand, 2023.
20. Abhishek Dhiman, Maroti Deshmukh. "Optimized Approach for Video Summarization using Transfer Learning and LSTM", 2nd International Conference on Computational

Intelligence and Sustainable Engineering Solution (CISES), IEEE, pp. 1-6, GLBITM Noida, 2023.

21. Arjun Singh Rawat, Maroti Deshmukh, Maheep Singh. "Meaningful Shares based Single Secret Sharing Scheme using Chinese Remainder Theorem and XOR Operation", 10th International Conference on Signal Processing and Integrated Networks (SPIN), IEEE, pp. 597-602, Amity University Noida, 2023.

22. Arjun Singh Rawat, Maroti Deshmukh, Maheep Singh. "QR Shares based Secret Sharing Scheme using DWT, Random Permutation and Arithmetic Modulo Operation for QR Secret", 10th International Conference on Signal Processing and Integrated Networks (SPIN), IEEE, pp. 772-777, Amity University Noida, 2023.

23. S C Kumain, Maheep Singh, Lalit K Awasthi, "A Dual-Stream Encoder-Decoder Network with Attention Mechanism for Saliency Detection in Video(s), Signal, Image and Video Processing", DOI :10.1007/s11760-023-02833-3.

24. S C Kumain, Maheep Singh, Lalit K Awasthi, "Investigating U-Net's Reliability in Saliency Detection with Salt and Pepper Noise" in IEEE Third International Conference on Power, Control and Computing Technologies (ICPC2T) 2024, NIT Raipur, Chhattisgarh, India.

25. Sneha Chauhan, Loreen Mahmood, Tanay Sheth, Sugata Gangopadhyay, and Aditi Kar Gangopadhyay. "Generating Adversarial Examples Using LAD" In International Conference on Intelligent Data Engineering and Automated Learning (IDEAL 2023), pp. 154-165. Cham: Springer Nature Switzerland, 2023.

26. Kumar, P., Chauhan, N., Kumar, M., Awasthi, L.K. Clustering based opportunistic traffic offloading technique for device-to-device communication (2023)

27. International Journal of System Assurance Engineering and Management, 14, pp. 827-839.

28. Gupta, P., Amrita, Pattanayak, H.S., Gunjan, Awasthi, L.K., Dave, V.S. Bio-inspired multilevel ICHB-HEED clustering protocol for heterogeneous WSNs (2023) Recent Trends and Best Practices in Industry 4.0, pp. 225-246.

29. Sachin Choudhary, Abhimanyu Kumar and Krishan Kumar, "PKIF-AKA: A Public Key Infrastructure Free Authenticated Key Agreement Protocol for Smart Grid Communication". IETE Journal of Research (SCIE), doi: 10.1080/03772063.2023.2200381, (2023).

30. Shubhashish Goswami and Abhimanyu Kumar "A Transformative Deep Learning Framework for Traffic Modelling using sensors-based multiresolution traffic data". Accepted for publication in: International Journal of Sensor Networks (SCIE) (2023).

31. Sneha Chauhan, Aditi Kar Gangopadhyay, Sugata Gangopadhyay, "Study of Support Set Generation Techniques in LAD for Intrusion Detection", International Conference on Intelligent Systems and Pattern Recognition, ISPR-2023, Hammamet, Tunisia.

32. Sachin Choudhary, Abhimanyu Kumar, Krishan Kumar, "Edge computing based An Efficient Lightweight authentication protocol for Smart Grid communication" .2023 International Conference on Computer, Electronics & Electrical Engineering & their Applications (IC2E3).

33. Manmohan Pundir, Abhimanyu Kumar, Sachin Choudhary, "Efficient Diffie Hellman Two Round Secret Key Agreement Protocol" 2023 1st International Conference on Innovations in High Speed Communication and Signal Processing (IHCSPP).
34. Kamini Sahu, Lalit K. Awasthi, Abhimanyu Kumar "A Novel Attribute based Encryption with implicit user authentication for Cloud" International Conference on Computer, Electronics & Electrical Engineering & their Applications (IC2E3).
35. Kamini Sahu, Lalit K. Awasthi, Abhimanyu Kumar "Key Generation using Pseudorandom Number Generator" 14th International Conference on Computing Communication and Networking Technologies (ICCCNT). IEEE, 2023.
36. Shubhashish Goswami and Abhimanyu Kumar "Traffic Prediction Using Auxiliary Information Based on Mlbsae-A Hybrid Deep Learning Framework ", 14th International Conference on Computing Communication and Networking Technologies (ICCCNT). IEEE, 2023.
37. Manmohan Pundir and Abhimanyu Kumar "Efficient Group Key Establishment Protocol in Resource-Constraint Environments using Identity Based Cryptography" International Conference on Algorithm and Computational Theory for Engineering Applications 2024.
38. Nikhil Rawat, Sneha Chauhan, Lalit Kumar Awasthi. Deep Learning Approaches for Predicting Mental States through Tweet Analysis, In International Conference on Innovative Trends in Information Technology (ICITIIT-2024).

DETAILS OF CONFERENCES/STC/FDPs/ EXPERT LECTURES ETC ORGANIZED:

- Dr. Surendra Singh has organized and International Conference on Computer, Electronics and Electrical Engineering and their Applications (IC2E3-2023) from 08th June 2023 to 09th June 2023 as Organizing Secretary sponsored by IEEE UP Chapter, SBI, and others at NIT Uttarakhand.
- Dr. Surendra Singh was the TPC member/Programme committee member in several international conferences in the year 2023-2024.
- Dr. Maroti Deshmukh served as a Program Committee member in 17th International Conference on Signal Image Technology & Internet based Systems (SITIS), 2023.
- Dr. Maroti Deshmukh served as a Program Committee member of 20th India Council International Conference (INDICON), 2023.

DETAILS OF CONFERENCES/STC/FDPS ATTENDED:

- Dr. Sneha Chauhan participated in a Short-Term Course on Recent Advances in Optimization Techniques for Engineering Applications, organized by Department of

Electronics & Communication Engineering National Institute of Technology

Kurukshetra during March 2024.

- Dr. Sneha Chauhan participated in the workshop on VLSI to System Design: Silicon to End Application approach, organized by AICTE, ARM education and STMicronics in august 2023.

OUTREACH ACTIVITIES:

- Dr. Surendra Singh has delivered an expert talk on IoT basics at Galgotias University, Greater Noida UP in the month of December 2023.
- Dr. Surendra Singh has delivered an expert talk of cyber forensics at Government Polytechnic Srinagar Garhwal in the month of December 2023.
- Dr. Maroti Deshmukh was invited as an external expert for B.Tech. Internship program at SRM Institute of Science and Technology, Ramapuram, Chennai during Aug-Nov 2023.
- Dr. Maroti Deshmukh was invited as an external expert for the evaluation of B.Tech. Internship in the department of Information Technology, SGGSI&T Nanded on 19.05.23.

ACHIEVEMENTS:

1. One of our M.Tech students, Deepak Singh Mahara (MT21CSE003) has been awarded the PG Diploma through NEP. This is the first student who has received the benefit of NEP-2020 in our institute.
2. Yash Wardhan Pandey BT18CSE004, student of B.Tech. in Computer Science and Engineering has been re-enrolled to the B.Tech. programme on the basis of NEP-2020 rules.

PLACEMENT DATA (B.Tech/M.tech/ PhD):

S. No.	Roll No.	Name	Companies Placed	Package (LPA)
1	BT20CSE001	Ayush Chamoli	Publicis Sapient	20.63
2	BT20CSE003	Vishal Gupta	Infosys	13
3	BT20CSE004	Ayush Dhiman	Publicis Sapient	20.63
4	BT20CSE005	Medhavi Sharma	Publicis Sapient	20.63
5	BT20CSE007	Abhinav Sirohi	Smarsh	
6	BT20CSE008	Malay Kaushik	Optym	19

7	BT20CSE009	Aman Singh Bhandari	MAQ	10
8	BT20CSE011	Md Shadab	C-DAC	5
9	BT20CSE013	Hansa Saini	L&T	6
10	BT20CSE016	Nikki Arya	Sagacious Research	8
11	BT20CSE019	Om Prakash	Genpact	7
12	BT20CSE022	Adapa Naga Jyothi Ganga Bhavani	Publicis Sapient	20.63
PH.D.				
13	DT20CSJ009	Sachin Choudhary	Bennett University	13.77

05.03 ELECTRICAL ENGINEERING DEPARTMENT

The Department of Electrical Engineering was established during the inception of the Institute in 2010 and has a fine blend of young and dynamic faculty. The Department is currently offering B.Tech. in Electrical & Electronics Engineering and M. Tech program in Electrical Engineering with specializations in Power System & Renewable Energy, and Power Electronics & Electric Vehicle. The department is also offering Ph.D. program in the emerging areas of Electrical Engineering for both full time and part time researchers. The major areas of expertise of faculty of department are Power Systems, Power Electronics, and Control Systems. The faculty of the department has been constantly carrying out research on state of art technologies and regularly publishing research work in top international journals and conferences. The department is well equipped with laboratories and research facilities for B.Tech., M.Tech. and Ph.D. programs. The department is also running IEEE student branch chapters.

Vision: To be a centre of eminence in Electrical Engineering and contributing sustainable development for industry and society by nurturing human resources.

Mission: The department aims to realize the vision through the following mission:

1. To empower the students and professionals with state of art knowledge and technological skills in Electrical Engineering.
2. To enable industries to adopt effective solutions in the domain of Electrical Engineering through research and consultancy.
3. To inculcate the sustainable technical development for social needs.

ACADEMIC STAFF:

S.No.	Faculty Name	Designation	Areas of Specialization
1.	Prof. Vivek Shrivastava	Professor	Reliability Engineering, Power System Analysis, Renewable Energy, Failure Analysis, System Design, Power System Restructuring /Deregulation, Electricity Market, Distributed Energy Resources and Smart Grid
2.	Dr. Prakash Dwivedi	Associate Professor	1. Control scheme for various application in Power System 2. Control scheme for various application in Power Electronics 3. Fractional control system; Anti-windup techniques
3.	Dr. Mahiraj Singh Rawat	Assistant Professor	Distribution System Planning, Power System Stability, Renewable and Energy storage Integration Issues in Microgrid and distribution system
4.	Dr. Sourav Bose	Assistant Professor	Electric Vehicle, Renewable Energy Conversion Systems, Design of controller for various power electronic converters, Bi-directional DC-DC Converter, Multiport DC-DC converter, Multi-level Inverter, Z source Inverter, Matrix Converter, Unity power factor rectifier, Design of controller for Induction Motor, PMSM, BLDC, SRM, etc.
5.	Dr. Tripurari Nath Gupta	Assistant Professor	Single-Phase and Three-Phase Microgrids, Power Quality Improvement of the Grid connected renewable energy sources, water pumping system, Power electronics and drives.
6.	Dr. Rohit Kumar	Assistant Professor	Electric Drives, DC Microgrid, Power Electronics and Electric Vehicle.
7.	Dr. Himesh Kumar	Assistant Professor	power distribution systems, power system analysis, deregulated power systems, power pricing, cooperative game theory, and Multi-Criteria Decision Making.

8.	Dr. Anant Milan Khalkho	Assistant Professor	Application of IoT, Data analytics methodologies, renewable energy systems and battery management systems for electric vehicles.
9.	Dr. Ravinder Kumar	Assistant Professor	Autonomous vehicles, electric vehicles, renewable energy and power electronics.

NON-TEACHING STAFF :

S.No.	Name	Designation	S.N	Name	Designation
1.	Mr. Kawal Preet Singh	Technical Assistant	5.	Mr. Amandeep Singh	Technician
2.	Mr. Alok Kumar Patel	Technical Assistant	6.	Mr. Ravindra Kumar	Laboratory Attendant
3.	Mr. Pradeep Kumar	Technician			
4.	Mr. Sanjay Chauhan	Technician			

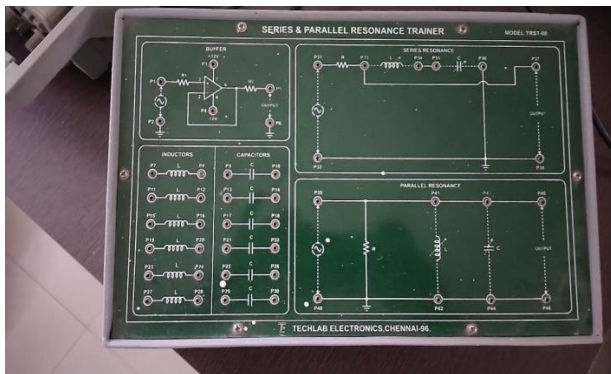
Ph.D. STUDENTS : 15 (04 Full Time and 11 Part Time)

S. No	Roll No.	Name	Full / Part Time	Supervisor	Co-Supervisor	Status
1.	DT19EEJ010	Satyaveer Singh Negi	Full Time	Dr. Prakash Dwivedi	Dr. Sourav Bose	Ongoing
2.	DT20EEJ001	Ashish Maithani		Dr. Sourav Bose	Dr. Prakash Dwivedi	Ongoing
3.	DT21EEJ001	Shiv Shambhu Choudhary		Dr. Tripurari Nath Gupta	-	Ongoing
4.	DT22EEJ002	Rajendra Kumar Prajapati		Dr. Rohit Kumar		Ongoing
5.	DT19EEJ001	Ekta Gairola	Part Time	Dr. Mahiraj Singh Rawat		Ongoing
6.	DT19EEJ002	Rakesh Thapliyal		Dr. Sourav Bose	Dr. Prakash Dwivedi	
7.	DT19EEJ003	Ruchir Pandey		Dr. Sourav Bose	Dr. Prakash Dwivedi	Ongoing
8.	DT19EEJ006	Ashutosh Biswal		Dr. Prakash Dwivedi	Dr. Sourav Bose	Ongoing

9.	DT19EEJ011	Himani Kala		Dr. Mahiraj Singh Rawat		Ongoing
10.	DT22EEJ001	Nitin Gupta		Dr. Suryanarayana Gangolu		Ongoing
11.	DT23EEJ001	Mandeep Guleriya		Dr. Rohit Kumar		Ongoing
12.	DT23EEJ002	Vikrant Kumar		Dr. Prakash Dwivedi		Ongoing
13.	DT24EEJ001	Pankaj Bisht		Prof. Vivek Shrivastava	Dr. Ravinder Kumar	Ongoing
14.	DT24EEJ002	Alok Kumar Patel		Dr. Prakash Dwivedi	Dr. Sourav Bose	Ongoing
15.	DT24EEJ003	Nancy		Dr. Anant Milan Khalkho	Dr. Suryanarayana Gangolu	Ongoing

RESEARCH AND DEVELOPMENT INFRASTRUCTURE/LABORATORIES:**Laboratories:**

S.No.	Laboratory Name	S.No.	Laboratory Name
1.	Basic Electrical Circuit Laboratory	2.	Measurement Laboratory
3.	Control System Laboratory	4.	Power Electronics Laboratory
5.	Electrical Drives Laboratory	6.	Simulation Laboratory
7.	Electrical Machine Laboratory	8.	Switch Gear & Protection Laboratory
9.	Elementary Electrical Engineering Laboratory	10.	Advanced Electrical Drives Laboratory
11.	Electrical Workshop		

Basic Electrical Circuit Laboratory:**List of Experiments**

1. To verify and finding the equivalent circuit of a Thevenin's theorem.
2. To verify and finding the equivalent circuit of a Norton's theorem.
3. To verify Maximum Power Transfer theorem.
4. To verify Super Position theorem.
5. To study the operation of Series and Parallel Resonance of a RLC circuit.
6. To find the power of a 3- ϕ balanced and unbalanced system.
7. To study the operation of a Transformer as a Coupled circuit and determination of its
 - a) Self-Inductance
 - b) Mutual Inductance
 - c) Coupling Coefficient.
8. To verify Telligen's theorem.
9. Transient response of a RL and RC Circuits.
10. To find the various Two- Port network parameters of a given network.

List of Major Equipment's

1. Maximum Power Transfer Theorem kit
2. Series and Parallel Resonance of a RLC circuit kit
3. Verification of Telling's theorem kit
4. Two- Port network parameters Kit
5. Digital Storage Oscilloscope

Control System Laboratory:**List of Experiments**

1. Error Detector Using Potentiometer and Synchros.
2. Time Response Behavior of Different Blocks of Control System.
3. System Identification.
4. Ziegler-Nichols tuning of PID Controller.
5. To study the effect of addition of pole on transient response to the second order closed loop control system by using MATLAB & LABVIEW.
6. To study the stability analysis of linear system.
7. To study the effect of addition of zero & pole to open loop transfer function of second order unity feedback control system by using root locus technique (using MATLAB & LABVIEW). **Additional Experiments**
8. To study the effect of addition of pole on frequency response to the second order closed loop control system by using MATLAB & LABVIEW.
9. To study the frequency response of Lag, Lead, Lag-Lead network.
10. To study the speed characteristics of BLDC Motor.

List of Major Equipment's

1. Temp. Control System Trainer
2. BLDC Motor trainer system
3. PID Controller
4. Relay Control System
5. Stability analysis of Linear System
6. Transducer Instrumentation & Control trainer
7. Qbot
8. AERO
9. Inverted Pendulum
10. PCB Prototype Machine
11. Mixed Channel Digital Storage Oscilloscope

Electrical Drives Laboratory:**List of Experiments**

1. Study of chopper/DC-DC converter-controlled DC Drive.
2. Study of Rectifier controlled DC Drive.
3. Study of PWM controlled Inverter fed Induction Motor
4. Study of electrical braking operation of DC Motor
5. Study of electrical braking operation of AC motor
6. Study of V/f control operation of 3phase induction motor drive.
7. Study of permanent magnet synchronous motor drive fed by PWM Inverter.
8. Study of Closed-Loop Control of DC Drives.
9. Study of slip power recovery control of induction motors.
10. Study of two-quadrant operation of DC-DC Converter.

List of Major Equipment's

1. DC-Motor Gen System (3kw)-NI LabVIEW based
2. Induction Generator System- NI LabVIEW based instruments.
3. 3-phase Synch motor gen System, 3 kW
4. Three Phase Squirrel Cage Induction –Controlled by NI-LabVIEW and VFD Drives
5. Switched reluctance Motor kit 0.3 kW
6. 3-Phase Universal Motor Controller
7. PM Synch Motor Kit 3 kW
8. PMBLDC- Kit 0.25 kW
9. Solar and Wind Power Trainer Kit (NI LabView)
10. Smart Grid Monitoring Module
11. Three-phase half and fully controlled rectifier.
12. Variable frequency drives.
13. Voltage Source Inverter.

Electrical Machine Laboratory-I:**List of Experiments**

1. To determine the efficiency of single-phase Transformer by conducting Sumpner's back- to- back test.
2. To conduct load test on DC shunt generator and to draw the external and internal characteristics of DC shunt generator.

3. To conduct Hopkinson's test on a pair of identical DC machines to pre-determine the efficiency of the machine as generator and as motor.
4. To perform the scott connection of transformer and to obtain the two-phase supply from three phase supply.
5. To determine the efficiency of the two given dc series motors which are mechanically coupled.
6. To study of the speed control of a dc shunt motor using conventional Ward- Leonard method.
7. To draw the magnetization characteristics of dc shunt generator.
8. **To conduct brake test on DC compound motor for long shunt cumulative & differential connections and to draw the performance characteristics.**
9. To perform parallel operation of two dissimilar Transformer and determine combined and individual transfer efficiency.
10. To perform the Swinburne's test of the DC machine and pre-determine the efficiency of the machine as generator and as motor.

Electrical Machine Laboratory-II:

List of Experiments

1. To determine speed- torque characteristics of single-phase Induction motor and study the effect of voltage variation.
2. To draw the circle diagram of 3-phase induction motor by conducting no load and blocked rotor test.
3. To study speed control of three phase Induction motor by varying supply voltage and keeping v/f constant.
4. To determine V-curve and inverted V-curve of a three-phase synchronous motor.
5. To predetermine the regulation of 3-phase alternator by EMF and MMF methods and also draw the vector diagram.
6. To determine the efficiency of 3-phase induction motor by performing load test.
7. To study synchronization of an alternator with infinite bus using
 - (A) Dark lamp method
 - (B) Two bright and one dark lamp method
8. To determine the percentage regulation of an alternator by ZPF method.
9. To study the power angle curve of synchronous generator.
10. To determine x_d and x_q of a salient pole synchronous motor using the slip test.

List of Major Equipment's

1. 3-Phase Rectifier
2. DC Shunt Motor
3. Squirrel Cage IM
4. Dc Power Supply SCR Based
5. DC compound Gen Set

6. Slip Ring Motor
7. Synchronous Motor 4 pole coupled with DC Shunt Generator
8. Synchronous Motor, with Induction motor Coupled Dc Shunt gen. 220V, 3 kW, 1500rpm
9. Synchronous Motor, 1HP, Coupled Dc Shunt gen. 220V, 3kW, 1550 rpm
10. Servo Stabilizer 3-ph
11. Multi Winding Transformer

Elementary Electrical Engineering Laboratory:



List of Experiments

1. To study and verify Kirchhoff's current and voltage laws for a circuit.
2. To study the performance & phasor diagram of RLC series circuit.
3. To study the speed control of DC shunts motor.
4. To perform the open circuit & Short circuit test for measuring the losses of the transformer.
5. To study the performance & phasor diagram of RLC parallel circuit.
6. Study of different types of machines.
7. To test the polarity of the single phase transformer.
8. Determine B/H curve for magnetic material.
9. To calculate the efficiency & voltage regulation of a single phase transformer.
10. Calculation of slip(s) of Induction motor for clock wise and anti-clock wise rotation of rotor.

List of Major Equipment's

1. DC Supply 110-220 V.
2. Ammeter DC 1-0-1 Amp.
3. DC 0.5-1 Amp.
4. Rheostat 110Ω, 2.8 Amp; 1089 Ω, 0.6 Amp.
5. Variac Input 220 V, output 270V, 5 Amp
6. Ammeter AC 2.5-5 Amp.

7. Voltmeter 150-300 V.
8. Transformer 220 V, 1KVA, 4.5 Amp.
9. Wattmeter 2.5-5 Amp, 75-150-300 V.
10. Capacitor 0-10 μF
11. Single Phase lamp load input 220 V

Measurement Laboratory:



List of Experiments

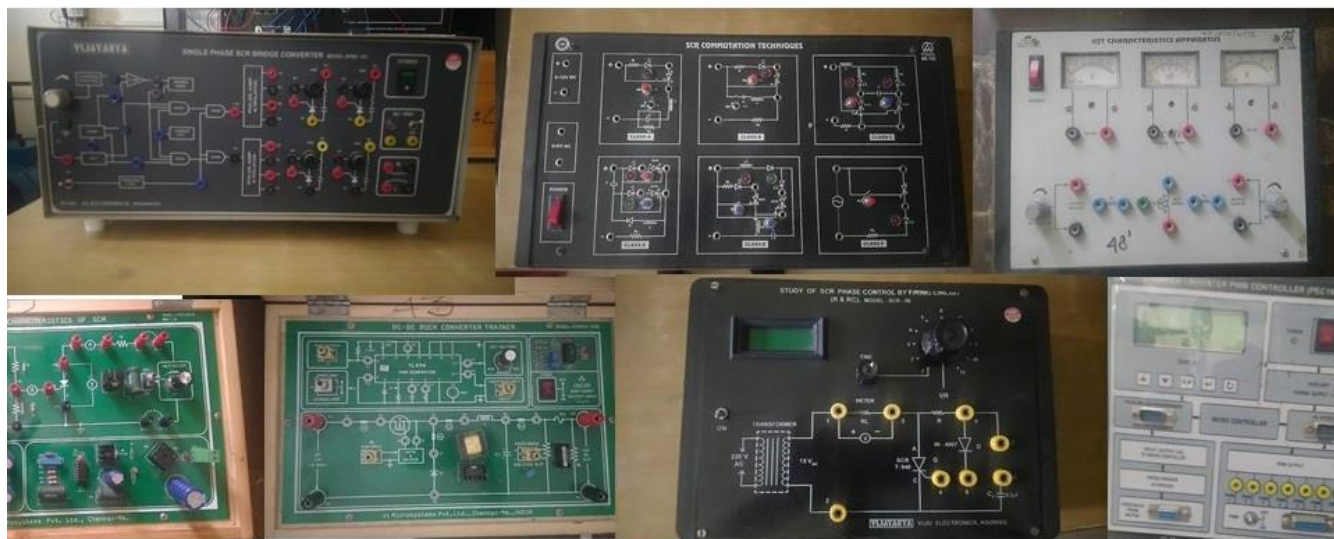
1. Measurement of unknown medium resistance by using Wheat Stone Bridge
2. Measurement of unknown small resistance by using Kelvin Double Bridge
3. Measurement of unknown medium inductance by using Maxwell Bridge
4. Measurement of unknown high inductance by using Hay' Bridge
5. Study of analog meters—PMMC, Electro Dynamo Meter, Moving Iron
6. Measurement of small distance variations by using LVDT
7. Measurement of weight by using Strain Gauge
8. Measurement of Torque
9. Study of CRO (Cathode Ray Oscilloscope)
10. Measurement Wind using Digital Anemometer
11. Measurement of solar irradiance using Digital Pyranometer (Solar Power meter)

List of Major Equipment's

1. **Wheat Stone Bridge** Source-5V R1 -1K Ω , 10K Ω , 100K Ω . R2- 10K. R3-, 10 Ω , 100 Ω , 1K Ω , 10K Ω , 100K Ω
2. **Kelvin Double Bridge** Source-5V. R1 -1K Ω , 10K Ω , 100K Ω . R2- 100 Ω , R3-1K Ω , 10K Ω , 100K Ω .

3. **Maxwell Bridge Source**-1KHz Oscillator R1-10K. R2-0.1mf. R3 -10 Ω , 100 Ω , 1K Ω , 10K Ω , 100K Ω
4. **Hay' Bridge Source**-1KHz Oscillator R2 -10 Ω , 100 Ω , 1K Ω , 10K Ω , 100K Ω . R3 -10 Ω . R4 -10 Ω
5. PMMC, Electro Dynamo Meter, Moving Iron
6. **LVDT** Input 203 AC Display 0-10 V Displacement range 0-20 mm
7. **Strain Gauge** Measuring Range-0-5,Kg Non-linearity Error - $\pm 1\%$ Excitation Source-D.C. Excitation (5Volts) Display- 3(1/2) Digit LED
8. **Torque** Measuring Range-0-2.5Newton meter. Non-linearity Error - $\pm 1\%$ Source-D.C. Excitation (5Volts) ; Working Temperature-0-500C Display- 3(1/2) Digit LED
9. **CRO (Cathode Ray Oscilloscope)**
10. **Anemometer** Display-LCD ,Size-65x25 mm Operating Temperature-0-500C(32-1220F) Air Velocity Sensor Structure- Conventional twisted vane arms and low friction ball-bearing design. Power supply-006P DC 9V battery Power Consumption-Approx DC 9mA Weight-325g/0.72lb(Including Battery)
11. **Pyranometer** (Solar Power meter) Sensor-High Sensitivity Silicon Photodiode Range-0~2000W/m²(0~634BTU/ft².h) Tilt angle range- 00~90 Store temp .&relative humidity-100C~600 C(140F~1400F Less than 85%RH) Memory-20 point memory Accessories-9V battery
12. **CT-PT Error Detector**
13. **Strain Gauge**

Power Electronics Laboratory:



List of Experiments

1. To study the V-I characteristics of SCR.
2. To study the V-I characteristics of TRIAC.
3. To study UJT characteristics.
4. To study SCR phase control.

5. To study SCR commutation techniques.
6. To study the performance of boost converter.
7. To study the performance of buck converter.
8. To study the operation of full bridge-controlled converter with R-Load.
9. To study single phase full bridge inverter.
10. To study single phase ac voltage controller
 - a. Based on SCR
 - b. Based on TRIAC

List of Major Equipment's

1. PEC16M1B Trainer Kit
2. PEC16M1C Trainer Kit
3. ME547D Trainer Kit
4. SCR-06 Trainer Kit
5. SCR commutation (ME-793) Trainer Kit
6. DC-DC Boost converter (VSMPS-06A)
7. DC-DC Buck converter (VSMPS-05A)
8. SPBC-101 Trainer Kit
9. PEC16M3 & 16HV2B Trainer Kit
10. PEC14M14AC Trainer Kit

Simulation Laboratory:**List of Experiments (Soft Computing Techniques Lab)**

1. Programs on Matrix operations to understand the basic concepts of MatLab.
2. To print all the Continues Discrete Membership Functions by using MatLab.

3. To perform different fuzzy operations on Membership Functions by using MatLab.
4. Design a Fuzzy controller for Air conditioning system/Washing Machine.
5. Identification of a system using Perceptron/Radial Base Function Network (RBFN).
6. Identification of a system by using Backpropagation algorithm.
7. Minimizing the objective function by using Genetic Algorithm (GA)
8. Minimizing the objective function by using Particle Swarm Optimization (PSO)
9. Minimizing the objective function by using Cuckoo Search Algorithm (CSA)
10. Minimizing the objective function by using Ant Colony Optimization (ACO)
11. Minimizing the objective function by using Differential Evolutionary (DE) algorithm
12. Minimizing the objective function by using Cat Swarm Optimization (CSO)

List of Experiments (Power System Lab)

MATLAB/SIMULINK Based Experiments

1. Static Load Flow Analysis of Standard IEEE bus system using N-R method.
2. Dynamic Analysis of IEEE 9 bus System.
3. Small signal Stability Analysis of Single Machine Infinite Bus System.
4. Short circuit Analysis of IEEE 9 bus power system.

DigSilent Power Factory Based Experiments-

1. Modeling and Analysis of Low Voltage Distribution Network (Mesh and Radial).
2. Study of Relay Coordination and Time grading Calculation using PowerFactory.
3. Power Quality and Harmonics Analysis of Power System.
4. Modeling IEEE 8 bus power system and analyzing/creating different operation Scenarios using PowerFactory.
5. Transient stability & Voltage Stability Analysis of Standard Power System.
6. Contingency Analysis of standard Power System.

List of Software

1. DigSalient PowerFactory 2018
2. MatLab 2019b
3. LabView 2013

Desktop Computer Details

Total No of Computer- 27

Specification Intel Core I i5-4590 CPU @3.30 GHz, RAM – 4GB, OS-64bit Microsoft Windows 10

Switch Gear & Protection Laboratory:**List of Experiments**

1. To study the protection of transformer with percentage biased differential relay (Microcontroller based numerical relay).
2. To study IDMT over current relay (single phase) and to determine the pickup and reset value and determine the time and current characteristics.
3. To study the working of Buchholz relay.
4. To analyze the underground cable fault using Varley loop test.
5. To study the directional over current protection.
6. To study the breakdown voltage of transformer oil by adjusting electrode gap length.
7. To study and draw the characteristics of numerical overcurrent relay.
8. To study and analyze the different type of symmetrical and unsymmetrical faults occurs in transmission line.
9. To study microcontroller based over/under voltage relay.
10. To study the complete protection of alternator unit.
11. To study the protection of feeder system.
12. To study the principle of reverse power protection.

List of Major Equipment's

1. IDMT over current relay kit (ME2471R)
2. Buchholz relay unit
3. Varley loop test kit (VPL-83A)
4. Transformer oil test kit
5. Feeder protection unit
6. Symmetrical and unsymmetrical fault analysis (NVI57065)
7. Microcontroller based over/under voltage relay (VPL-05)

8. Reverse power protection Panel
9. Protection of Alternator unit (PWS-3012A)
10. Percentage biased differential relay
11. (ME2473RD)
12. Directional overcurrent relay (JRP 011)
13. Numerical overcurrent relay (ANSI NO. 50&51)
14. Digital Storage Oscilloscope

Advanced Electrical Drives Laboratory:



List of Experiments

1. Design simulation of Single phase rectifier with R, RL and RLE loads using MATLAB.
2. Study and analysis of open and closed loop control of three phase induction motor using DSP microcontroller board.
3. Study and analysis of open and closed loop control of BLDC motor using DSP microcontroller board.
4. Study and analysis of open and closed loop control of Switch Reluctance Motor using FPGA.
5. Study and analysis of open and closed loop control of PMDC motor using DSP microcontroller board.
6. Study and analysis of three level diode clamp three phase MLI for open and closed loop control of Induction motor using FPGA Board.
7. Study and analysis of five level cascaded MLI operation through FPGA control Board.
8. Study and analysis of various operation by Matrix Converter through FPGA Controlled Board.
9. Study and analysis of closed loop control of BLDC and Three Phase Induction Motor parameter on Real Time GUI FPGA platform.

List of Major Equipment's

1. Real Time – GUI FPGA Controller Based
 - I. Induction Motor Set up
 - II. DC Motor Drive Set Up
 - III. BLDC Motor Drive Set up
 - IV. SR Motor Drive Set up.
2. Matrix Converter Power Module
3. Three Phase Five Level Cascaded Multilevel Inverter.
4. Three Phase Three Level Diode Clamped Multilevel Inverter Power Module.
5. DSPIC4011 Microcontroller Based PWM Controller.
6. FPGA PWM Controller
7. AC/DC Current Measurement Cards with auxiliary power supply
8. AC/DC Voltage Measurement Card with auxiliary power supply
9. Single IGBT Project card with Opt coupler based driver circuit
10. Dual IGBT Project card with Opt coupler based driver circuit
11. Opal RT Real Time HIL Simulator and HIL Controller
12. Typhoon HIL Simulator.
13. Workstation Dell
14. Power Quality Analyzer
15. DC Electronic Load

Ph.D. Research Facilities**Industry Collaborative Laboratory**



The Department of Electrical Engineering, NIT Uttarakhand has an Industry Collaborated lab established by Mitsubishi Electric India Pvt. Ltd. under MoU between NITUK and MITSUBISHI Electric India Pvt. Ltd. The following equipment's/software are provided to the Electrical Engineering Department of NIT Uttarakhand under MoU between NITUK and MITSUBISHI Electric India Pvt. Ltd.

1. MELSOFT MX OPC Server (Integrated solution for plant engineering)
2. MELSOFT MC Works 64 (Integrated solution for plant engineering)
3. FA learning kit; Inverter (FR-A820) and Servo Amplifier (MR-J4W3).

DETAILS OF R&D PROJECTS:

S. No.	Title of the R&D Project	Funding Agency	Name of PI/Co-PI	Sanctioned Amount Rs. (in Lacs)	Status
1	Solar powered robust E-Rickshaw control with bidirectional DC-DC converter using regenerative cycle boost charging	Ministry of Electronics & Information Technology (MeitY), Government Of India	Dr. Prakash Dwivedi & Dr. Sourav Bose	₹ 30.02 Lakh	Completed
2	Design and Development of System-on-Board (SoB) for Neuroprosthesis: An application in Healthcare System	SMDP	Dr. H. Muthusamy, Mr. Vivek Kumar and Mr. Himesh Kumar	₹ 86 Lakh	Ongoing

DETAILS OF CONSULTANCY PROJECTS:

S. No.	Consultancy Project Given by	Name of Project Investigator	Co-PI	Consultancy Amount (₹)	Status
1	Technical Vetting of GFC drawing	RCC Developers	Dr. Aditya Kumar Anupam	29,500/-	Completed
				2,31,280/-	

DETAILS OF PATENTS/COPYRIGHT ETC:

S. No.	Title	Application Number	Date of Filing/Publication/Award	National/ International	Name of Inventors
	Solar Power integrated bidirectional non-isolated DC-DC converter for E-Rickshaw	202211032781	8 June 2022	IP India	Dr.Prakash Dwivedi Dr.Sourav Bose Mr.Rakesh Thapliyal Mr. Satyaveer Negi

HIGHLIGHTS/ACHIEVEMENTS:

- Dr. Suryanarayana Gangolu has received best paper award in the 5th International Conference on Power, Control & Embedded Systems (ICPCES), 2023.

DETAILS OF CONFERENCES/STC/FDPs/ EXPERT LECTURES ETC ORGANIZED:

1. The Departments of Electrical Engineering, Electronics Engineering, and Computer Science Engineering jointly organized an international conference on Computer, Electronics and Electrical Engineering and Their Applications, IC2E3 2023, from June 8–9, 2023.
2. Department of Electrical Engineering, National Institute of Technology, Uttarakhand, organized the 2nd International Conference on Power Engineering and Intelligent Systems (PEIS2024) from March 16–17, 2024.
3. A five day STC on “Enabling Power Electronics for EVs Ecosystem from 05th to 09th February 2024.

DETAILS OF CONFERENCES/STC/FDPS ATTENDED:

1. Rakesh Thapliyal, Sourav Bose, Prakash Dwivedi, "Modified Zeta Bidirectional Non-Isolated DC-DC Converter with Wide Voltage Gain for E-mobility" 2023 IEEE 14th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), Shanghai, China, pp 121-126, 09-12 June 2023.
2. A. Maithani, P. Dwivedi, and S. Bose "Grid Connected Photovoltaic using Modular Multilevel Converter as Shunt Active Power Filter" PEDG 2023 – 2023, IEEE 14th International Symposium on Power Electronics for Distributed Generation Systems, 2023.
3. A. Biswal, P. Dwivedi, and S. Bose "Frequency Control of Two Region Two-Unit Systems with PDF + (1+PI) Controller " 2023 International Conference for Advancement in Technology, ICONAT 2023.
4. A. Biswal, P. Dwivedi, and S. Bose "Frequency control of two region two-unit systems with HVDC link and SMES" 2023 International Conference on Power, Instrumentation, Energy and Control, PIECON, 2023.
5. Rohit Kumar "The DC Microgrid with Energy Storage System" IEEE Workshop on Power Electronics and Power Quality Applications (PEPQA), Cali Colombia, 2023.
6. Rajendra Kumar Prajapati, Rohit Kumar "Investigation on Photovoltaic Cells with Battery Integration" International Conference on Computer, Electronics & Electrical Engineering & their Applications (IC2E3), NIT Uttarakhand, 2023.

STUDENT'S ACHIEVEMENTS:

Maniya Verma	2016-2020	UPSC	UPSC
Aishwaryam Prajapati	2016-2020	UPSC 10 th Rank	IAS

STUDENT PROJECTS:**PLACEMENT DATA (B.Tech/M.tech/ PhD):**

S. No.	Roll No.	Name	Companies Placed	Package (LPA)
1.	BT20EEE014	Anchal Singhal	Thomson Digital	8
2.	BT20EEE002	Abhishek Gairola	L&T	6

3.	BT20EEE012	Mohd Faisal	Unacademy	8
4.	BT20EEE006	Gaurav Singh Bisht	221 B Baker Street	6
5.	BT20EEE010	Roshan Raj	TCS	9
6.	BT20EEE004	Aanchal Agarwal	Mahindra & Mahindra	8

05.04 DEPARTMENT OF ELECTRONICS ENGINEERING

Started during the session 2010-11, the Department offers B. Tech. programme in Electronics and Communication Engineering. The Department also offers M. Tech programme in Microelectronics & VLSI Design and Communication Systems and PhD

programs in multiple specializations. The ECE department has always taken the lead in establishing well equipped and state of art lab facilities for students. The department has developed Research lab with latest work stations, National Instruments equipment, logic analyzer and lab view software. The department has 01 Associate Professor, 07 Assistant Professors, 01 Trainee Teachers and 03 Technical Assistants.

Vision:

- To offer academic excellence in the field of Electronics and Communication Engineering with a strong emphasis towards research and development to cater to the needs of the society.

Mission:

- Offering a vibrant learning environment for the students of by promoting excellence in teaching, conducting short term courses and organizing technical events.
- Enabling students to develop skills to solve complex technological problems by promoting collaborative and multidisciplinary activities.
- Establishing Centre of Excellence to nurture the spirit of innovation and creativity among faculty and students.
- Providing ethical and value based education by promoting activities addressing the societal needs.

ACADEMIC STAFF:

S.No.	Faculty Name	Designation	Areas of Specialization
1.	Dr. Siva Kumar Tadepalli	Assistant Professor & HoD	Signal Processing, Robust Control, Robotics and Computer Vision
2.	Dr. Hariharan Muthusamy	Associate Professor	Biomedical Signal and Image Processing, Speech Signal Processing, Signal Processing and AI/DL/ML Algorithms for Communications and VLSI Design
3.	Dr. Sarika Pal	Assistant Professor	Optical Communication and Sensors, Optoelectronics Devices & Interconnects, AI/ML based sensors
4.	Dr. Tushar Goel	Assistant Professor	Planar Antennas, THz mmwave Applications, Remote Sensing,
5.	Dr. Pankaj Kumar Pal	Assistant Professor	Novel MOS based Device -circuit Co-design for 5G/6G communication, Spin based memory design for in-compute logics, Design and implementation of A/D Convertors for health-care applications.
6.	Dr. Sarita Yadav	Assistant Professor	VLSI and Microelectronics, 3D ICs, Low Power Circuit Design.
7.	Dr. Nitanshu Chauhan	Assistant Professor	Device Circuit Interaction of Novel Semiconductor Devices, FeFET for Inmemory Computation and Neuromorphic computing, Self-Heating Effects on Novel Semiconductor Devices
8.	Dr. Vivek Kumar	Assistant Professor	Microelectronics & VLSI Design: Modeling and Simulation of CMOS Nanoscale Device, Thermal Modeling, AI & ML based Nanoscale Device Modeling
9.	Dr. Jaiverdhan	Assistant Professor	Circularly Polarized Patch Antennas, Beam forming Antennas, Hz Antennas

NON-TEACHING STAFF :

S.No.	Name	Designation	S.No	Name	Designation
1.	Mr. Balaji Dhanraj Gole	Technical Assistant	5.		
2.	Mr. Chandra Pal Singh	Technician	6.		
3.	Mr. Arjun Singh Bhandari	Data Entry Operator (outsourced staff)	7.		

Ph.D. STUDENTS: 17 (08 Full Time and 09 Part Time)

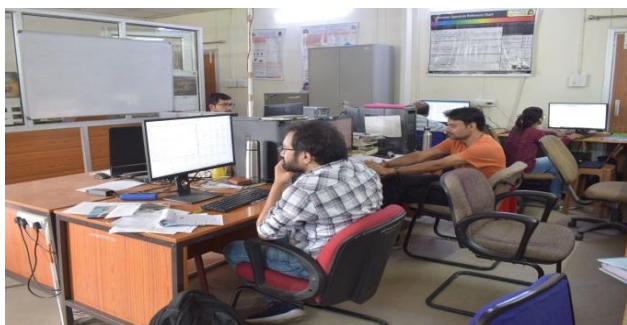
Sl. No.	Roll No.	Name	Full / Part Time	Supervisor	Co-Supervisor	Status
1.	DT20ECJ004	Mr. Satendra Pathak	Full Time	Dr. Tushar Goel	-	On-going
2.	DT21ECJ001	Mr. Virendra Kumar		Dr. Sarika Pal	-	On-going
3.	DT21ECJ003	Ms. Ritu Tanwar		Dr. Pankaj Kumar Pal	Dr. Ghanapriya Singh	On-going
4.	DT22ECJ001	Mr. Rahul Prakash		Dr. Siva Kumar Tadepalli	-	On-going
5.	DT23ECJ001	Mr. Rahul Birla		Dr. Pankaj Kumar Pal	Dr. Tushar Goel	On-going
6.	DT23ECJ002	Mr. Charit Chand Tiwari		Dr. Hariharan Muthusamy	-	On-going
7.	DT23ECJ003	Mr. Rakesh Kumar		Dr. Sarika Pal	-	On-going
8.	DT24ECJ001	Mohd. Mohsin		Dr. Sarita Yadav		On-going
9.	DT19ECJ001	Mr. Varun Kumar Kakar	Part Time	Dr. Pankaj Kumar Pal		On-going
10.	DT19ECJ002	Mr. Lalit Kumar Garia		Dr. Hariharan Muthusamy	-	On-going
11.	DT19ECJ006	Mr. Rishi Nigam		Dr. Siva Kumar Tadepalli	-	On-going
12.	DT20ECJ002	Mr. Avinash Bhatt		Dr. Tushar Goel	-	On-going
13.	DT20ECJ004	Mr. Vipin Kumar Verma		Dr. Sarika Pal	-	On-going
14.	DT21ECJ002	Mr. Ashish Pratap Singh		Dr. Hariharan Muthusamy		On-going
15.	DT21ECJ004	Mr. Mahesh Kumar Aghwariya		Dr. Sarika Pal	-	On-going
16.	DT22ECJ002	Mr. Kuldip Kumar		Dr. Siva Kumar Tadepalli	-	On-going
17.	DT22ECJ003	Mr. Banit Negi		Dr. Hariharan M.	Dr. Vivek Kumar	

RESEARCH AND DEVELOPMENT INFRASTRUCTURE/LABORATORIES:

(Name of laboratory with list of major equipment's, recent photographs of the laboratories, don't write all list of experiment)

Laboratories:

Research Lab: This lab is mainly dedicated to research work for UG/PG and faculty members. This lab consists of high speed computation platform to cater to the need of research in VLSI, Microwave and signal processing.



Analog Electronics Lab: This lab emphasizes on providing fundamental knowledge of basic electronic devices and circuits to the students. ECE as well as EEE Students are made to work on discrete and integrated circuit components.



Microprocessor Lab: Microprocessor lab is dedicated to programming and interfacing of 8 bit 8085 microprocessor and 8051 microcontroller with various peripherals. Students are encouraged to design various automated embedded systems based electronics projects in the lab.



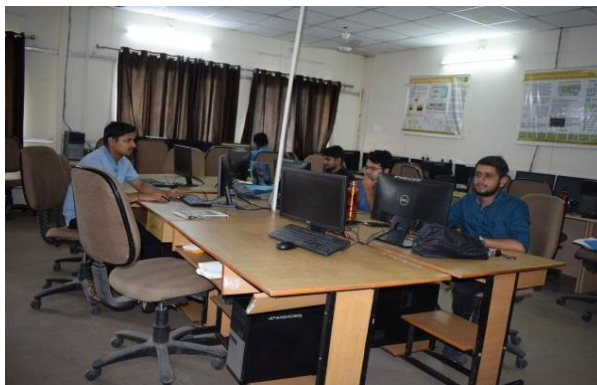
Digital Signal and Image Processing: This lab provides real time processing of 1D and 2D signals and having floating point processor that can provide minimum quantization errors. Students also can visualize signals and analyse its basic proper ties like time shifting, modulation, filtering, scaling, and compression on a virtual platform such as lab-view and code composers.



Communication Lab: Communication lab facilitates the students to the understand the basic principle of communication systems. Students can realize different analog and digital modulations such as amplitude modulation, frequency modulation, phase shift keying, amplitude shift keying, frequency shift keying modulation, QPSK and QAM etc. on trainer kits and visualize the signal processing on CRO, high end digital storage oscilloscopes and spectrum analyzer.



Electronics System Design Lab: Electronics system design lab is devoted to design advanced digital and electronics systems, mostly this lab is utilized by third year and final year students. This lab consists of 20 high end computer systems for hardware description language programming and FPGA Altera DE2 kits for interfacing purpose.



Electronic Workshop: Students from ECE as well as other departments who are interested in robotics and embedded systems work in this lab. Lab provide all basic facilities like ICs, PCB boards, soldering irons, motors and AVR microcontroller kits, USB burners. In addition, department has also purchased new E-Yantra kits for robotics. This lab is used mainly by the students working on their major and minor projects.



Digital Electronics Lab: Digital electronics lab is basic lab for Electronics, Electrical, and computer science under graduate students. Students are made familiar with basic building block of digital electronics systems such as logic gates, combinational and sequential circuits, using digital ICs and digital training kits.



DETAILS OF R&D PROJECTS:

S. No.	Title of the R&D Project	Funding Agency	Name of PI/Co-PI	Sanctioned Amount Rs. (in Lacs)	Status
1.	DECOMET- Development of Indigenous System for Deciphering Envisioned Speech From EEG Signals Usng Optimized Deep Convolutional Neural models	SERB, Under Core Research Grant Scheme	Dr. Hariharan Muthusamy	40.70	On-going
2.	IoT-based Multifunctional Scalable Real-Time Farm Monitoring System for Smart Agriculture	Agriculture & Water Technology Development Hub (AWaDH) scheme, TIH, IIT Ropar	Dr. Pankaj Kumar Pal	16.96	On-going
3.	Prototype development of a non-invasive plasmonic fiber sensor using nanomaterials for detection of cortisol salivary biomarker	CRG-SERB	Dr. Sarika Pal, Prof. Lalit Kumar Awasthi	24.94	On-going
4.	A Systematic Design of Robust Memory Cell Using Ferroelectric FET (FeFET) for AI Hardware Accelerator	CRG-SERB	Dr. Nitanshu Chauhan	42.00	On-going
5.	A Novel Power-On Pilot IC for Ultra-low power Wireless IOT Devices	MeiTY (SMDP-C2S)	Dr. Nitanshu Chauhan, Dr. Hariharan M, Dr. Sarita Yadav, Dr. Vivek Kumar	411.44	On-going
6.	Design and Performance Investigation of Low Power III-V Negative Capacitance for Sensing Application	CSIR, Design and Modelling	Dr. Nitanshu Chauhan	25.00	On-going
7.	VLSI Design and Implementation of Imagined Speech based	SMDP, Hardware Project	Dr. Nitanshu Chauhan, Dr. Hariharan	85.00	Submitted

	Neuroprosthesis: An application in Healthcare System		Muthusamy, Dr. Vivek Kumar , Dr. Himesh Kumar		
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DETAILS OF PATENTS/COPYRIGHT ETC:

S. No.	Title	Application Number	Date of Filing /Publication/Award	National/ International	Name of Inventors
1.	Tray for Electronic Components	390343-001	14/07/2023	National	Siva Kumar Tadeipalli
2.	An EEG Channel System and Method for Imagined Speech Recognition using Multi-Feature Siamese Neural Network	202311046373	10/07/2023	National	Hariharan Muthusamy Ruchi Juyal Niraj Kumar Ashish Pratap Singh Lalit Singh Garia
3.	Highly-Directional Compact Semicircular Angular-Phased Antenna Array in 9.35 GHz-42.89 GHz	201811035222	28.04.2023	National	Tushar Goel, Amalendu Patnaik

DETAILS OF CONFERENCES/STC/FDPs/ EXPERT LECTURES ETC ORGANIZED:

- 5-day's workshop in hybrid mode on *"Future Communications Technologies: 5G & Beyond"* from January 08th to 12th, 2024.
- One day expert lecture on *"Photonic spin Hall effect and its potential application in the fields of communication and sensing"* by the Dr. Yogendra Kumar Prajapati, Professor, Department of Electronics Engineering at MNNIT Allahabad on 24/11/2024.
- One day expert lecture on *"Advance VLSI Design: Memories"* by Dr. Bishnu Prasad Das, Associate Prof., Department of Electronics Engineering, IIT Roorkee from 09th Nov., 2023.
- One day Expert Lecture on *"Space Antenna Systems"* by Puneet Mishra Scientist ISRO on 18th April 2023.

OUTREACH ACTIVITIES:

- Dr. Sarika Pal delivered an Expert Talk on 'Smart Sensing through optical modes for sustainable solutions' for SERB sponsored Karyashala on 'Artificial Intelligence (AI) for Smart Sensing and Internet of Everything (IoE), 13 Feb. 2024 at RGIPT Jais, Amethi.

- Dr. Nitanshu Chauhan given expert talk at NIT warangal in Faculty Development programme.

SPECIAL ACHIEVEMENTS:

- Mrs. Amita Giri, Alumnus of 2013-17 Batch has joined Indian Institute of Technology, Roorkee, Department of Electronics & Communication Engineering as an Assistant Professor.

STUDENT'S ACHIEVEMENTS:

- Mr. Arvind Bisht (DT19ECJ010) has been placed in C-DAC Bangalore.
- Ms. Shrey Chandola (BT20ECE004) got selected for higher study (VLSI M.Tech(R)+Ph.D Dual Degree) at IIT Mandi
- B.Tech 2021 Batch Students, Shivam Purwal (BT21ECE003) & Manas Pandey (BT21ECE025) have participated in the online preliminary round of prestigious International Collegiate Programming Contest (ICPC-2023) at GLA University, Mathura during 6th – 11th April 2023.
- Mr. Virendra Kumar, PhD scholar in ECE dept. has published a research paper entitled "Design of a highly sensitive and precise long-range surface plasmon resonance sensor for early detection of malaria," *Physica B: Condensed Matter*, Volume 686, 2024, 416072, ISSN 0921-4526, <https://doi.org/10.1016/j.physb.2024.416072>.
- Mr. Virendra Kumar, PhD scholar in ECE dept. has published a research paper entitled "Tantalum Disulfide (TaS₂)–Based Symmetrical Long-Range Surface Plasmon Resonance Biosensor with Ultrahigh Imaging Sensitivity and Figure of Merit". *Plasmonics* **19**, 403–416 (2024). <https://doi.org/10.1007/s11468-023-01993-9>.
- Mr. Virendra Kumar, PhD scholar in ECE dept. has published a research paper entitled "A Tantalum Disulfide (TaS₂) Mediated Long-Range Surface Plasmon Resonance Refractive Index Sensor with Improved Performance". *Sens Imaging* **24**, 42 (2023). <https://doi.org/10.1007/s11220-023-00449-y>.
- Mr. Virendra Kumar, PhD scholar in ECE dept. has presented a research paper entitled "Early Detection of Dengue Virus Using GaSe and WS₂ Mediated Surface Plasmon resonance Sensor With Ultrahigh Sensitivity" in Sixth IEEE International Workshop on Recent Advances in photonics (WRAP 2023) by IIT Allahabad

• Student's Internship

Sl. No.	Roll.No.	Name of Student	Company Name	Stipend (in Rs. Per Month)
1.	MT22ECE003	Abhishek Raj	ST Microelectronics Pvt. Ltd.	35,000/-
2.	MT22ECE005	Ravindra Kumar Patel	Motherson Innovations Tech. Ltd.	27,000/-
B.Tech students on Internship				

Sl. No.	Roll. No.	Name of Student	Company Name	Stipend (in Rs. Per Month)
1.	BT20ECE020	Rohit Rai	Global Foundries	30,000/-
2.	BT20ECE022	Nischal Anand	Global Foundries	30,000/-

• Student's Gate Score

Sl.No.	Roll.No.	Name	GATE RANK
1.	BT20ECE005	Nidhi Joshi	6122 (CSE)
2.	BT20ECE010	Pradyum Pal	7415 (ECE)
3.	BT20ECE012	Md. Uwais Ansari	1741 (CSE)
4.			9923 (ECE)
5.	BT20ECE016	Aryan Singh	9467 (ECE)
6.	BT20ECE019	Vishesh Raina	2689 (ECE)
7.	BT20ECE020	Rohit Rai	2942 (ECE)
8.	BT20ECE022	Nischal Anand	2817 (ECE)

STUDENT PROJECTS:

Sl. No.	Roll.No.	Name of Student	Title of the Project	Supervisor
1.	BT20ECE001	Saket Joshi	Hybrid RoF and FSO Transmission Link for Last Mile Connectivity of 4X20 Gbps – 60 GHz, Using MDM and WDM	Dr. Sarika Pal
2.	BT20ECE007	Anand Prakash Mishra		
3.	BT20ECE002	Vivek Joshi	Automated Wireless Smart Agriculture Monitoring using IoT: Final Phase	Dr. Tushar Goel
4.	BT20ECE016	Aryan Singh		
5.	BT20ECE003	Sakshi Rana	Reflex Tester Using Hardware Description Language and FPGA	Dr. Siva Kumar Tadepalli
6.	BT20ECE006	Tripti		
7.	BT20ECE004	Shrey Chandola	4X20 GBPS – 60GHz Hybrid RoF and FSO Transmission Link for Last Mile Connectivity Using MDM and WDM	Dr. Sarika Pal
8.	BT20ECE005	Nidhi Joshi	Imagined Speed Classification using Brain Waves	Dr. Hariharan M
9.	BT20ECE009	Rashmi Jalal	Design and Analysis of Efficient Optical Transmission System Using DCF For Dispersion Compensation	Dr. Sarika Pal
10.	BT20ECE010	Pradyum Pal	Design of Ring Oscillator Using PDSOI MOSFET	Dr. Nitanshu Chauhan

11.	BT20ECE012	Md. Uwais Ansari	ECG Signal Compression Using Autoencoders	Dr. Hariharan M.
12.	BT20ECE014	Abhishek Kumar Yadav	Trailblazer: The Autonomous Line Tracker	Dr. Sarita Yadav
13.	BT20ECE015	Sukruth Penubala		
14.	BT20ECE017	Ashita Swarnim	Design of a Two Stage CMOS Operational Amplifier in 180nm Technology	Dr. Vivek Kumar
15.	BT20ECE019	Vishesh Raina	Advanced Walking Stick For Blind People	Dr. Pankaj Kumar Pal
16.	BT20ECE021	Minal Kapse		
17.	BT20ECE020	Rohit Rai	Study of Self Heating and Radiation Effect on Nanosheet	Dr. Vivek Kumar
18.	BT20ECE022	Niscahl Anand		

PLACEMENT DATA (B.Tech/M.tech/ PhD):

Sl. No.	Roll No.	Name	Companies Placed	Package (LPA)
1.	BT20ECE003	Sakshi Rana	ACT21 Software Pvt. Ltd, Noida, India	8.4
2.	BT20ECE005	Nidhi Joshi	Infosys	13.00
3.	BT20ECE006	Tripti	BEL, Kotdwar, Uttarakhand	11.7
4.	BT20ECE009	Rashmi Jalal	BEL, Kotdwar, Uttarakhand	11.7
5.	BT20ECE012	Md. Uwais Ansari	Smarsh	
6.	BT20ECE016	Aryan Singh	BEL, Kotdwar, Uttarakhand	11.7
7.	BT20ECE019	Vishesh Raina	Tutorials Point, Hyderabad	6.00
8.	BT20ECE021	Minal Kapse	09 Solution, Bengaluru, Karnataka, India	5.00
Ph.D Scholar				
1.	DT19ECJ010	Arvind Bisht	C-DAC	8.00

05.05 DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering at the National Institute of Technology, Uttarakhand was established in 2012 and currently has an intake of 36 students per year. The Department offers a four-year B.Tech. course, M.Tech. Program in two specialization; Machine Design & Thermal Engineering and a Ph.D. program. The department has flexible

academic structure with numerous core and elective courses, to facilitate the students to opt for the courses of their interest. Presently, the department has Three Associate Professors, and Twelve Assistant Professors. All the faculty members are well qualified from reputed institutions like IITs and NITs. The area of specialization of all faculties has a lot of diversity that covers various aspects of Mechanical Engineering and is capable to mould young minds into successful professionals. The department is fully equipped with laboratories for core courses such as Machine Tools Laboratory, Strength of Materials Laboratory, Fluid Mechanics and Machines Laboratory, Applied Thermodynamics Laboratory, Heat Transfer Laboratory, Kinematics and Dynamics of Machines Laboratory,

Computer Aided Design Laboratory and Mechanical Workshop. These laboratories have state of the art experimental setups and machineries for enhancing the practical knowledge of students at par with the cutting edge technology. The department is now expanding its wings towards elective course laboratories such as Additive Manufacturing, Measurement Laboratory, Robotics Laboratory, Mechatronics Laboratory, Automobile Laboratory, CNC Laboratory, Vibration Laboratory etc. Apart from academics, the department has collaboration with industries and research institutions to setup specialized laboratories and joint research programs. Such initiatives will provide an opportunity to the students to have feel of real on sight situations in the industries and how to handle them. The Department is working on innovative ideas in collaboration with Design Innovation Centre-NITUK for the rural development in the state of Uttarakhand

VISION

To become a Centre of Excellence in Mechanical Engineering education and research for sustainable socio-economic development

MISSION

1. To develop a state-of-the-art infrastructure for imparting quality education.
2. To impart technical skills and professional ethics to the students for making them employable and thus contributing in nation building.
3. To perform inter-disciplinary as well as collaborative research in the frontier areas of technology for sustainable development of the society.
4. To promote leadership, innovation and entrepreneurship among the students

Faculty & Staff:

Sr. No.	Faculty Name	Designation	Areas of Specialization
1	Dr. Sanat Agrawal	Associate Professor	Design Engineering
2	Dr. Gurinder Singh Brar	Associate Professor	Manufacturing Engineering
3	Dr. Lalta Prasad	Associate Professor	Thermal Engineering
4	Dr. Pawan K. Rakesh	Assistant Professor	Manufacturing Engineering
5	Dr. Vinod Singh Yadav	Assistant Professor	Thermal Engineering
6	Dr. Vikas Kukshal	Assistant Professor	Design Engineering
7	Dr. Apurba Mandal	Assistant Professor	Design Engineering
8	Dr. Niraj K Mishra	Assistant Professor	Thermal Engineering
9	Dr. Dungali Sreehari	Assistant Professor	Manufacturing Engineering
10	Dr. Hitesh Sharma	Assistant Professor	Manufacturing Engineering
11	Dr. T. Sudhakar	Assistant Professor	Thermal Engineering
12	Dr. Deepak Kumar	Assistant Professor	Thermal Engineering
13	Dr. Prasant Tiwari	Assistant Professor	Design Engineering

Non-teaching staff:

S.N	Name	Designation
1	Mr. Mohd Arshad Saify	Technical Assistant
2	Mr. Santosh Singh Rawat	Technician
3	Mr. Rinku	Technician
4	Mr. Pawan Rana	Technician
5	Mr. Krishan Kumar	Technician
6	Mr. Malkeet Singh	Lab Attendant

Ph.D. Students:

30 (10 Full Time and 20 Part Time)

S. No.	Roll No.	Name	Full / Part Time	Supervisor	Co-Supervisor	Status
1.	DT20MEJ001	Arun Uniyal	Full Time	Dr. Deepak Kumar	Dr. Yogesh Kumar Prajapati (BIT Sindhari)	-
2.	DT20MEJ003	Shaurya Bhatt		Dr. Pawan Kumar Rakesh	Dr. Deepak Joshi (IIT Delhi)	-
3.	DT20MEJ004	Hari Narayan Singh		Dr. Sanat Agrawal	-	-
4.	DT20MEJ007	Prasoon Chaudhary		Dr. Gurinder Singh Brar	Prof. Varun Sharma (IIT Roorkee) on 12-05-2023	-
5.	DT20MEJ008	Ashu Kumar		Dr. Gurinder Singh Brar	-	-
6.	DT21MEJ002	Deepak Kumar		Dr. Apurba Mandal	-	-
7.	DT22MEJ002	Nishu Giri		Dr. Vikas Kukshal	Dr. Pawan Kumar Rakesh	-
8.	DT23MEJ002	Sauveer Kumar		Dr. Hitesh Sharma	-	-
9.	DT22MEJ003	Ankit		Dr. Dungali Sreehari	-	-
10.	DT24MEJ005	Vishal Kumar Ram		Dr. Pawan Kumar Rakesh	-	-
11.	DT19MEJ007	Neeraj Gupta	Part Time	Dr. Apurba Mandal	-	-
12.	DT19MEJ012	Gulraj Singh		Dr. Gurinder Singh Brar	Dr. Rupendar Singh (NITTTR Chandigarh)	-

13.	DT20MEJ00 6	Himanshu Sah		Dr. Lalta Prasad	-	-
14.	DT22MEJ00 1	Vivek sheel Yadav		Dr. Dungali Sreehari	-	-
15.	DT20MEJ01 0	Ganesh Kumar Sharma		Dr. Vikas Kukshal	-	-
16.	DT21MEJ00 1	Anuj Kumar		Dr. Gurinder Singh Brar	-	-
17.	DT21MEJ00 4	Ram Mohan Gupta		Dr. Niraj Kumar Mishra	Dr. Vinod Singh Yadav	-
18.	DT21MEJ00 6	Hari Om Maurya		Dr. Lalta Prasad	Dr. Gaurav Kumar (NIT Rourkela)	-
19.	DT21MEJ00 8	Pushkar Singh		Dr. Vinod Singh Yadav	Dr T Sudhakar	-
20.	DT19MEJ00 9	Nishant Kumar		Dr. Vinod Singh Yadav	-	-
21.	DT19MEJ01 1	Vivek Bahuguna		Dr. Pawan Kumar Rakesh	Dr. Apurba Mandal	-
22.	DT20MEJ00 2	Pramod Prabhakar Bijlwan		Dr. Lalta Prasad	Dr. Anshul Sharma (NIT Hamirpur)	-
23.	DT23MEJ00 3	Alok Misra		Dr. Hitesh Sharma	Dr. T Sudhakar	-
24.	DT24MEJ00 4	Ashwani Kumar		Dr. Hitesh Sharma	Dr. Pawan Kumar Rakesh	-
25.	DT24MEJ00 5	Kundan Singh Deshwal		Dr. T Sudhakar	Dr. Vinod Singh Yadav	-

26.	DT24MEJ00 3	Munna Singh		Dr. Prashant Tiwari	Dr. Apurba Mandal	-
27.	DT22MEJ00 4	Sumit Kumar Gupta		Dr. Prashant Tiwari	-	-
28.	DT24MEJ00 1	Nitesh Verma		Dr. Sanat Agrawal	-	-
29.	DT23MEJ00 1	Devashish Tiwari		Dr. Deepak Kumar	Dr. Niraj Kumar Mishra	-
30.	(DT21MEJ00 9)	Kapil Mohan		Dr. Pawan Kumar Rakesh	-	-

RESEARCH AND DEVELOPMENT INFRASTRUCTURE/LABORATORIES:

Heat Transfer Lab:

**List of Experiments**

- 1 To determine Stefan Boltzmann constant for radiant heat transfer.
- 2 To determine efficiency and effectiveness of the fin by natural using Pin fin apparatus.
- 3 To determine efficiency and effectiveness of the fin by forced convection using Pin fin apparatus.
- 4 To determine forced convection heat transfer coefficient for flow through the given Horizontal tube.
- 5 Determination of thermal conductivity of pipe insulation by lagged pipe apparatus.
- 6 To study the pool boiling phenomenon up to critical heat flux apparatus.
- 7 To determine thermal conductivity of metal rod.
- 8 To determine heat transfer coefficient in parallel and counter flow in a tubular heat exchanger.
- 9 To determine performance of cooling tower
- 10 Shell and tube heat exchanger

. List of Equipment's

- 1 Refrigeration Test RIG.
- 2 Thermal Conductivity of Metal Rod.
- 3 Stefan's Law Apparatus.
- 4 Heat Transfer from a pin fin.
- 5 Force Convection App.
- 6 Boiling curve App.
- 7 Heat transfer through lagged pipe
- 8 Cooling Tower Test RIG.
- 9 Conduction composite cylinder experiment.
- 10 Pool boiling apparatus.
- 11 Air conditioning Test RIG.
- 12 Tubular Heat Exchanger Experimental Kit.
- 13 Heat conduction unit
- 14 Digital Bomb Calorimeter (for determination of calorific value of liquids and solids)
- 15 Air Duct Unit
- 16 Shell and Tube Heat Exchanger
- 17 Hygrometer
- 18 Recirculating Chiller
- 19 Vapour Absorption refrigeration system
- 20 Solar IV Curve Tracer
- 21 Ultrasonic Probe Sonicator & Viscometer

03.01 Applied Thermodynamics Lab**List of Experiments**

- 1 Study of different type of boilers
- 2 To study the working and function of mountings & accessories in boiler.
- 3 To determine the viscosity of lubricating oil by Redwood Viscometer.

- 4 Determination of calorific value of liquid and solid fuels using oxygen bomb calorimeter
- 5 To study the construction and working of 2-stroke petrol engines.
- 6 To study the construction and working of 4-stroke diesel engine
- 7 To Study of fuel supply system for petrol engine.
- 8 To study the fuel supply system of diesel engine
- 9 To draw the valve timing diagram of the given four stroke diesel engine
- 10 To find out the volumetric efficiency of double stage air compressor
- 11 To find out the volumetric efficiency of an air compressor.
- 12 To study the performance of 2-Stroke Single cylinder Petrol engine connected to a rope brake dynamometer.
- 13 To study the performance of 4-Stroke Single cylinder diesel engine connected to an electric brake dynamometer.
- 14 To prepare a heat balance sheet for 4-Stroke Single cylinder diesel engine connected to an electric brake dynamometer.

List of Equipment's

- 1 One Cylinder 4 Stroke Diesel Engine Test Rig.
- 2 One Cylinder 4 Stroke Diesel Engine Test Rig 7.5 kw.
- 3 Red wood Viscometer
- 4 One Cylinder 2 Stroke Petrol Engine Test Rig.
- 5 Single stage Air compressor test Rig.
- 6 Double stage Test Air Compressor.
- 7 Four stroke single cylinder water cooled Diesel Engine (Model).
- 8 Four stroke Diesel Engine
- 9 Two Stroke one Cylinder Petrol Engine (Actual Cut Section).
- 10 Fuel Supply System of A petrol Engine (Model).
- 11 Gate Valve, Fusible Plug, Gate Valve Lever Safety Valve, Lever Safety Valve, Steam Injector, Spring Loaded Safety valve.
- 12 Babcock & Wilcox Boiler Model
- 13 Lancashire Boiler Model.
- 14 Vertical Water Tube Boiler Model.
- 15 Model of Cornish Boiler.
- 16 VCR Multi fuel Engine
- 18 Digital Techometer
- 18 Cut section of gear box, Cut Section of differential gear mechanism, Cut Section of Automobile breaking system

Fluid Mechanics Lab



List of Experiments

- 1 To study of the different types of hydraulic turbines.
- 2 To verify the momentum equation experimentally.
- 3 To study the performance characteristics of a centrifugal pump and to determine the characteristic with maximum efficiency.
- 4 To study the performance characteristics of a reciprocating pump and to determine the characteristic with maximum efficiency.
5. To draw the characteristics curves of gear oil pump and also to determine efficiency of given gear oil pump.
- 6 To conduct load test on pelton wheel turbine and to study the characteristics of pelton wheel turbine
- 7 To conduct load test on Francis turbine and to study the characteristics of Francis turbine.
- 8 To study the two pump performances, both in series and parallel operation and to draw the characteristics curves in both series and parallel arrangement.
- 9 To verify Bernoulli's equation.
- 10 To reproduce the dye line experiment as performed by Reynolds and to obtain the criteria for Laminar and Turbulent flow.
- 11 Determination of coefficient of discharge, coefficient of contraction, coefficient of velocity of orifice & mouthpiece.
- 12 To calculate coefficient of discharge, C_d of Venturi meter.
- 13 To calculate coefficient of discharge, C_d of Orifice meter.
- 14 To compare theoretical and actual value of flow over notch.
- 15 To study free and forced vortices.
- 16 To find the Coriolis component of acceleration and verify the result.
- 17 To determine the friction factor of a given pipe of circular cross section.
- 18 To determine the Metacentric height of a floating body (i.e. a model of ship) and to locate the center of Buoyancy, 88efuelling and center of gravity.
- 19 To determine the percentage error in Rotameter with the actual flow rate.

List of Equipment's

1. Bernoulli's Theorem kit.
2. Losses in pipe kit.
3. Orifice, venturimeter's kit.
4. Coefficient of discharge Demonstration.
5. Metacentric height kit.
6. Notches kit.
7. Impact of Jet kit.
8. Reynolds's Apparatus.
9. Free and forced vortices.
10. Orifice and Mouthpiece.
11. Pelton wheel Turbine test Rig.
12. Axial flow Runner, Francis Runner model.
13. Francis Turbine test Rig.
14. Gear Pump Set Up
15. Centrifugal Pump Test Rig.
16. Cut section model Centrifugal pump, Cut section model gear pump.
17. Reciprocating Pump Test Rig.
18. Pelton Turbine Model, Centrifugal Pump model, Cut section Gear pump suction.
19. Series & Parallel Pump setup
20. Centrifugal pump model, Piston pump cutaway model, gear pump model
21. Rotameter
22. Pressure Gauge
23. Hydraulic Bench

Solid Mechanics Lab**List of Experiments**

- 1 To verify Hooke's law for a spring and to determine the spring's elastic constant by static deformation
- 2 To study the Brinell hardness testing machine and the Brinell hardness test

- 3 To determine the impact strength (toughness) of steel by Izod impact test.
- 4 To determine the impact strength (toughness) of steel by Charpy impact test.
- 5 To conduct tensile test on mild steel specimen using Universal Testing Machine
- 6 To find the compressive strength of given specimen.
- 7 To determine experimentally the value of flexural (EI) rigidity for a cantilever beam carrying point loads and to verify the result with analytical method.
- 8 To determine experimentally the deflection at mid-point on a simply-supported beam carrying point loads and to verify the result with analytical method.
- 9 To conduct torsion test on mild steel specimens to find out modulus of rigidity.
- 10 To determine the endurance limit of given specimen under fatigue loading or cyclic loading.
- 11 To determine the moment of inertia of sample object by using Tri-filar suspension system.

List of Equipment's

- 1 Brinell hardness testing.
- 2 Universal Testing Machine.
- 3 Impact Testing Machine.
- 4 Buckling of Euler's bars apparatus.
- 5 Hook's law apparatus.
- 6 Deformation of curved axis beam.
- 7 Deformation of the straight beam apparatus.
- 8 Deformation of U/S shaped from apparatus.
- 9 Euler column experiment apparatus.
- 10 Tri-filar suspension.
- 11 Izod & Charpy testing M/C
- 12 Torsion Testing Machine
- 13 Fatigue Testing Machine
- 14 Digital Weighing Balance
- 15 Shore Hardness Tester

Kinematics of Machine Lab



List of Experiments

- 1 To calculate the efficiency of Single Start Worm and Worm Wheel.
- 2 To determine the coefficient of friction between a belt and pulley with the help of a combined coil and belt friction apparatus
- 3 To determine the moment of inertia of sample object by using Tri-filar suspension system.
- 4 To calculate the mechanical advantage, velocity ratio and efficiency of double purchase winch crabs machine.
- 5 To check experimentally the method of calculating the position of counter balancing weight in rotating mass system.
- 6 To perform experiment on Watt Governors to prepare performance characteristic Curves, and to find stability & sensitivity.
- 7 To determine the whirling speed of shafts with various diameters experimentally and compare it with theoretical values.
- 8 To analyses the motion of a motorized gyroscope when the couple is applied along its spin axis.
- 9 Experimental studies of vibration of a cantilever beam on mode shapes.
- 10 To study gyroscopic effects through models.
- 11 To study the various types of dynamometers.
- 12 To perform the experiment for static balancing on static balancing machine.

List of Equipment's

1. Two Stage Spur Gear Model.
2. Slotted Link Mechanism Model.
3. Planetary Gear Model.
4. V Belt drives Model.
5. Multi plate Clutch actual Model.
6. Single Stages Spur Gear Model.
- 7 With Worth Quick Return Mechanism Model.
- 8 Crank and Connection Rod.
- 9 Double hook Coupling.
- 10 Static and Dynamic Balancing

- 11 Governor Apparatus.
- 12 Winch
- 13 Whirling of Shafts Apparatus
- 14 Combined Flat & 'V' belt friction Apparatus
- 15 Motorized Gyroscope
- 16 Worm and Worm Wheel Apparatus.
- 17 SDSI Digital Laboratory Stirrer
- 18 Magnetic Stirrer
- 19 Weighing Scale

Computer Aided Design Lab



List of Experiments

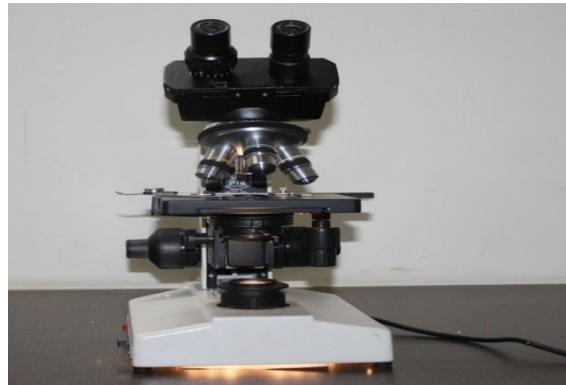
1. To draw a part drawing in catia
2. Make 3D model and practice the detailed part drawing and assembly of Belt roller Support using AutoCAD software tool. All dimensions are in mm
3. Make 3D model and practice the detailed part drawing and assembly of universal coupling using AutoCAD software tool. All dimensions are in mm
4. Make the assembly of the given parts in AutoCAD software tool. All dimensions are in mm.
5. Complete the assembly of the following exercises using AutoCAD software tool
6. Make 3D model and practice the part design using following data. Extract the front view, side view and elevation of the part using AutoCAD software tool. All dimensions are in mm.
7. Practice the following exercises using AutoCAD
8. Practice the following exercises using AutoCAD software tool.

List of Equipment's/Software

- 1 Desktop Computer-30
- 2 ANSYS Software installed on 30 systems
- 3 CATIA Software installed on 30 systems

- 4 AUTOCAD Software installed on 30 systems
- 5 MATLAB installed on 30 systems
- 6 Lab View Software (NI Instruments)
- 7 High Wall Split AC's
- 8 Online UPS 10KVA

Measurement Lab



List of Experiments

- 1 To understand construction of Vernier Caliper and calculate its least count.
- 2 To understand construction of outside micrometer and calculate its least count
- 3 Study & Observe Vernier Height gauge, Digital Height gauge and Vernier Depth gauge.
- 4 Study of Depth micrometer
- 5 Direct and indirect measuring instruments like Screw pitch gauge, radius gauge, small hole gauge, Telescopic gauge and Feeler gauge.
- 6 To study and use Vernier Bevel Protractor.
- 7 To find unknown angle of a given component using Sine Bar.
- 8 Micrometer calibration by Slip Gauges
- 9 To study characteristic graph of LVDT sensor.

List of Equipment's

- 1 Sine Bar 6" & 12"
- 2 Feeler Gauge
- 3 Height Gauge
- 4 Slip Gauge block set
- 5 Surface plate (Granite)
- 6 Plug Gauge (Go, No-Go Gauge)
- 7 Bevel Protector

- 8 Comparator (Mechanical)
- 9 Wire Gauge
- 10 Micrometre
- 11 Vernier 94efuell (150mm, 200mm)
- 12 Research Binocular Microscope
- 13 Material Processing Micro oven
- 14 LVDT Trainer
- 15 LG Microwave Oven
- 16 Strain Gauge Trainer
- 17 Peristaltic Pump
- 18 Weighing Machine
- 19 Abrasive Wheel Polishing Machine
- 20 Digital Vernier 94efuell (300mm)
- 21 Radius Gauge
- 22 V Block with C Clamp
- 23 Spirit Level
- 24 Gear tooth vernier caliper
- 25 Vernier 94efuell
- 26 Portable surface roughness tester
- 27 Stereo zoom microscope
- 28 Digital Micro Vickers Hardness Tester

Machine Tool Lab



List of Experiments

- 1 Study about the machining processes
- 2 To study the characteristic features of lathe Machine
- 3 To perform the Turning, Facing, Grooving and Threading operations on given mild steel rod
- 4 To study the characteristic features of Milling Machine

- 5 To study the characteristic features of Shaper Machine
- 6 To machine a V block
- 7 To drill and tap holes on the mild steel rod as shown in the sketch
- 8 To perform the grinding operation on surface grinder Machine
- 9 Introduction about non-conventional machining processes

List of Equipment's

- 1 Lather Machine 01
Lather Machine 03
- 2 Shaper Machine
- 3 Surface Grinder
- 4 Universal Milling Machine
- 5 Bench Drill Machine
- 6 Shearing Machine
- 7 Anvil Small
- 8 Power Hacksaw
- 9 Fly Wheel Press (Hand Press)
- 10 Hydraulic Press
- 11 Ultrasonic Machining Machine
- 12 Digital Vernier 95efuell (150mm) 02 nos
- 13 Dynamometer
- 14 Bench Grinder
- 15 Hand Drill Machine

Mechanical Workshop Lab



List of Experiments

- 1 To file the given two Mild Steel pieces in to a square shape of 48 mm side as shown in Figure.
- 2 To file the given Mild Steel pieces in to a stepped cut piece of having equal step-dimension E1

- 3 To make V- fit from the given two MS plates as shown in Figure - E2
- 4 To make a T- lap joint
- 5 To make a dovetail lap joint
- 6 To make a mortise and tenon joint
- 7 To make a single v-butt joint, using the given mild steel pieces of by arc welding.
- 8 To make a double lap joint, using the given mild steel pieces and by arc welding.
- 9 To make a corner joint, using the given mild steel pieces and by arc welding.
- 10 To make a T- joint, using the given mild steel pieces and by arc welding
- 11 To make a cylinder using the given G-I SHEET joint by the spot welding process.
- 12 To prepare a wooden pattern (solid pattern).
- 13 To make a square tray of given dimension (75mm x 75 mm) using given GI sheet.

List of Equipment's

1. Arc Welding Machine-1.
2. Gas Welding Setup
3. Spot Welding Machine.
4. Muffle Furnace -1
5. Anvil Big & Small
6. Carpentry Vice-4
7. Bench Vice-2
8. Bench Vice-9
9. Carpentry Vice-8
10. Cope & Drag-3
11. TIG Welding Machine
12. Wood Lathe Machine
13. Reciprocal Shaker
14. Jack Planer-2
15. Arc Welding Machine
16. Moulding Box-03
17. Tig arc welding machine
18. Muffle Furnace

VIBRATION LAB UNDER KOM Lab

List of Experiments

- 1 To verify the relation of simple pendulum
- 2 To determine the radius of gyration 'k' of a given compound pendulum
- 3 To determine the radius of gyration of given bar by using Bi-Filer suspension.
- 4 To study the Torsional Vibrations of single rotor system.
- 5 To study the Free Vibration of Two Rotor System and to determine the Natural Frequency of Vibration Theoretically & Experimentally.
- 6 To study the Damped Torsional Oscillation & to determine the damping co-efficient C.

- 7 To verify the Dunker ley's Rule Viz.
- 8 To study the longitudinal vibration of helical spring and to determine the frequency and time period of oscillation theoretically and actually by experiment.
- 9 To study the undamped free vibration of equivalent spring mass system and To find the frequency of undamped free vibration of equivalent spring mass system.
- 10 To study the Forced damped Vibration of Equivalent Spring Mass System and To find the frequency of forced damped equivalent spring mass system and To find amplitude of vibration.
- 11 To study the forced vibration of the beam for different damping. And To find frequency of beam at different damping.

List of Equipment's

- 1 Universal Vibration Setup
- 2 Multi channel Sensing and Actuation Unit
- 3 Multi channel Band Pass Filter
- 4 Dynamic Vibration Shaker with Power Oscillator

Details of R&D Projects:

Sr. No.	Title of the R&D Project	Funding Agency	Name of PI/Co-PI	Sanctioned Amount Rs. (in Lacs)	Status
1.	Design and development of Grewia optiva/Basalt fiber based polymer composite for the application of sustainable structure in land slide prone areas of Uttarakhand	Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Government of India	PI:- Dr. Lalita Prasad Co-PI:- Dr. Niraj Kumar Mishra	24,69,128/-	ongoing
2.	Development of domestic cooking stove based on biomass	Science and Engineering Research Board (SERB), Department	PI:- Dr. Niraj Kumar Mishra	22,13,332/-	ongoing

	gasification with porous radiant burner	of Science and Technology (DST), Government of India			
3.	Fabrication and Testing of Lower Limb Prosthesis for Transtibial Amputee using Biocomposites with Energy Restoring Capability	Indian Institute of Medical Research (ICMR), New Delhi (2022)	PI: Dr. Pawan Kumar Rakesh CO PI: Dr. Sanat Agarwal	27.7 Lakhs	ongoing
4.	Mathematical Modelling and Optimization of Friction Crush Welding Process Parameters	MATRICES, DST-SERB	PI: Dr. Gurinder Singh Brar	6.60 Lakh	ongoing
5.	Development of Ceramic and UHMWPE Textile Based Hybrid Polymer Composite Armor	National Technical Textiles Mission (NTTM), Ministry of Textile	PI: Dr. Amar Patnaik & Co PI: Dr. Vikas Kukshal	3,63,36,384/-	Ongoing
6.	Development of Ultra High Precision Sub Micron Level Measurement Facility for the measurement of Coefficient of Thermal Expansion for Dimensionally Stable Composite Structures	Indian Space Research Organisation	PI: Dr. Amar Patnaik & Co PI: Dr. Vikas Kukshal	20,00,000/-	Ongoing
7.	Development of E-glass/Carbon	National Technical Textiles Mission	PI:	41,40,288/-	Ongoing

textile reinforced
hybrid
polymercomposites
for wind turbine
Blade application

(NTTM), Ministry of
Textile

Dr. Amar
Patnaik &
Co PI:
Dr. Vikas
Kukshal

- | | | | | | |
|----|---|--|--|-------------|---------|
| 8. | Development and characterization of high-temperature wear and corrosion resistance high entropy alloy (HEA) for airborne parts and turbine engine blade | Scheme for Promotion of Academic and Research Collaboration (SPARC), Ministry of Education | PI:
Dr. Amar Patnaik &
Co PI:
Dr. Vikas Kukshal | 47,81,264/- | Ongoing |
| 9. | Manufacture and development of hybrid armour material for ballistic and blast application | Jindal Stainless Limited, Hisar | PI:
Dr. Amar Patnaik &
Co PI:
Dr. Vikas Kukshal | 39,60,000/- | Ongoing |

Details of Consultancy Projects:

Sr. No.	Consultancy Project Given by	Name of Project Investigator	Co-PI	Consultancy Amount (Rs.)	Status
1	Uttarakhand Forest Department	Dr. Vinod Singh Yadav	Dr. Vikas Kukshal Dr. Dungali Sreehari	Rs. 81,774	Completed 02- Ongoing - 02

DETAILS OF PATENTS/COPYRIGHT ETC:

S. No.	Title	Application Number	Date of Filing/Publication/Award	National/ International	Name of Inventors
a.	Power Driven Stair Climbing Tri-wheeled Spider-wheel System	415820	Granted 28.12.2022	-	Vinod Singh Yadav, Nishant Kumar, Deepak Kumar, Rajesh Kumar, Megha Kainth
2.	Vehicle Wheels Speed Synchronizing Assembly	512047	Granted 19.02.2024	-	Vinod Singh Yadav, Nishant Kumar, Abhay Pratap Singh
3.	Hybrid Solar Air Heater For Space Heating And Crop Drying	202111000280	Published 14.10.2022	-	Vinod Singh Yadav, Vineet Singh, Manoj K. Singh, Niraj Kumar, Anurag Maheshwari
4.	Solar Pump Irrigation Based On Photovoltaic (PV) Cell Technology	202111000580	Published 23.09.2022	-	Vinod Singh Yadav, Vineet Singh, Manoj K. Singh, Niraj Kumar, Anurag Maheshwari
5.	Portable Animal Trap Cage	202411007885	Published 16.02.2024	-	Vinod Singh Yadav, Vikas Kukshal, D. Sreehari, Nishant Kumar, Swapnil Anirudha W.
6.	Portable-Foldable Scaffold	-	In-process to file	-	Vinod Singh Yadav, Vikas Kukshal, D. Sreehari, Shravan Kumar, Swapnil Anirudha W.
7.	Desk Mounted Personal Air Filtration Unit	202211032621	Published	-	Dr Sanat Agrawal, Dr. Niraj Kumar Mishra, Dr. Roop Bhushan Kalia
8.	Self-Aspirated Pressurized Kerosene Cooking Stove	201631037245	Granted	-	Mishra SC, Muthukumar P, Sinha GS, Sharma M, Mishra NK, Mahanta P

	with a Porous Radiant Burner				
9.	Digital air pollution detecting device	396221-001	Published 27/09/2023	-	Dr. Amit Kumar Sharma, Rakesh Kumar, Prof. Sunil Kumar, Dr. Hitesh Sharma, Danish Mahajan
10.	Touch and Clickwheel Controlled Thermostat for Floor Heating System	-	Granted 2023	-	Kumar Yadav, Nishant Kumar Singh, Lalta Prasad, Prem Charles Immanuel
11.	Battery Operated Air Cooler	-	Granted 2023	-	Nishant Kumar Singh, Lalta Prasad, Virendra Kumar, Surendra Kumar Yadav
12.	Compact Vapor Sorption Analyzer	-	Granted 2023`	-	Surendra Kumar Yadav, Virendra Kumar, Nishant Kumar Singh, Lalta Prasad
13.	Spiral Air Distribution System in Updraft Gasifier	-	Filed, 2023	-	Prabhu Paramasivam, Nishant Kumar Singh, Virendra Kumar, Rajesh Kumar Verma, Lalta Prasad
14.	A Novel Fibre Reinforced Biodegradable Composite and Method of Preparing Same	-	Granted, 2024	-	Pawan Kumar Rakesh, Mayank Pokhriyal
15.	A novel biodegradable Laminate composite and preparation method thereof	-	Published 2024	-	Pawan Kumar Rakesh, Rajesh Kumar, Dungali Sreehari
16.	Improved Profile of Disc	Patent No.: 533845	Published - 23.12.2019	-	Dr. Gurinder Singh Brar

	for Friction Crush Welding	Application No.: 201911053466	Granted - 19.04.2024		
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HIGHLIGHTS/ACHIEVEMENTS: NIL**DETAILS OF CONFERENCES/STC/FDPs/ EXPERT LECTURES ETC ORGANIZED:**

S.No.	Coordinator/ Secretary	Workshop Details	Venue	Date
1.	Dr. Vinod Singh Yadav	Curriculum Development Workshop	NITUK	26 th -27 th April, 2023
2	Dr. Sanat Agrawal	A 5-day workshop on "3D Printing Applications and its potential for entrepreneurship"	NITUK	28 th Sep, to 02 nd Oct, 2023
3	Dr. Apuba Mandal	Curriculum Development Workshop	NITUK	18 th -19 th March, 2024

Expert lecture

S. No.	Name	Organized By	Designation	From	Topic	Date
1.	Dr. Pankaj Kumar Gupta	Dr. Gaurav Kumar	Assistant Professor	MNIT Jaipur	Electrochemical Discharge Machining of Glass	01-05-2023
2.	Mr Siddhant Mukherjee	Dr, Sanat Agrawal	Sr. Product Design Engineer	Mercedes Benz Research and Development India, Pune	Career prospects in core engineering sectors	26-08-2023

3.	Dr. Chandan Swaroop Meena	Dr. T Sudhakar	Scientist	CSIR Roorkee	Building Energy Efficiency	06-10-2023
4.	Dr. Prashant Kumar	Dr. Sanat Agrawal	Professor	Emeritus, COE Pune	Product Design	26-10-2023

DETAILS OF CONFERENCES/STC/FDPS ATTENDED:

S.No.	Faculty Name	Conference Details	Venue	Date
1.	Dr. Hitesh Sharma	29th International Conference on Processing and Fabrication of Advanced Materials	IIT Tirupati	06-09-23 to 08-09-2023
2.	Dr. Hitesh Sharma	AIMTDR 2023	IIT BHU	08-12-23 to 10-12-2023
3.	Dr. Niraj Kumar Mishra	IHMTC 2023	IIT Patna	14-12-2023 to 17-12-2023

Outreach Activities:**Visit of Students from JNV Pokhal , Tehri Garhwal at****NIT Uttarakhand on 14/Dec. 2023**

On December 14, 2023, a group of 80 10th-grade students, from Jawahar Navodaya Vidyalaya, Pokhal , Tehri Garhwal visited to the Mechanical Engineering Department at the National Institute of Technology Uttarakhand. The purpose of this visit was to acquaint the students with the field of mechanical engineering and inspire them to pursue careers in this field. Upon their arrival, the students received a warm welcome and were guided on a tour of the department, where they were introduced to the impressive facilities and well-equipped laboratories. Engaging discussions further enriched their understanding of the field. This visit provided valuable insights into both the academic and practical aspects of mechanical engineering, fostering a passion for the discipline and motivating the students to consider engineering careers.

**PLACEMENT DATA (B.Tech/M.tech/ PhD):**

S. No.	Roll No.	Name	Companies Placed	Package (LPA)
1	BT20MEC002	Vinayak Kala	Pie Infocomm	7.5
2	BT20MEC004	Lalit Mehra	L&T	6
3	BT20MEC008	Satyam Singh Gurjar	BEL	11.7
4	BT20MEC010	Elugu Nikshitha	L&T	6
5	BT20MEC006	Pankaj Bhatt	BEL	11.7
6	BT20MEC017	Makar dhvaj meena	BEL	11.7
7	BT20MEC019	Priti Kumari	Indus Tower	9.5
8	BT20MEC020	Shivam	ACME Group	6.5
9	BT20MEC005	Priyanshu	ACME Group	6.5
10	BT20MEC011	Manvendra Singh	ACME Group	6.5

05.06 DEPARTMENT OF PHYSICS

The Department of Physics is established in June 2019. Earlier it was the part of Department of Sciences and Humanities. Department offers core and elective courses in Physics for undergraduate B.Tech. programme of the Institute. Our courses are created in such a way that they are interdisciplinary in nature and can be chosen from any department within NIT UK, so one can tailor their degree to their interests. In addition, the department offers Ph.D. programme in Physics. Doctoral research is carried out in all major areas of Physical sciences. Major thrust areas are Condensed Matter Physics, Optics and Theoretical Physics. The Department has a dedicated team of distinguished faculty and staff members, trained at renowned Institutes in India and abroad. The Department offers a vibrant

atmosphere to students and faculty to nurture the spirit of scientific inquiry and to pursue cutting-edge research in a highly encouraging environment.

1. Vision/ (if any):

To impart quality education and focus on interdisciplinary research in Physics and Nanotechnology to meet the global standards.

Mission

(i) To develop state of art educational and research environment for students.

(ii) To educate undergraduate students about principles & applications of Physics in Engineering.

(iii) Excel in scientific R & D and consultancy.

2. Academic Staff:

Sr. No.	Faculty Name	Designation	Areas of Specialization
1	Dr. Manvendra Singh Khatri	Associate Professor & Head	Thin films, Nanowires, Multilayers, Composite Materials
2	Dr. Vimal Sharma	Professor	Nano Energetic Materials, thermal and pressure studies
3	Dr. Hardeep Kumar	Associate Professor	Magnetic thin films, Spintronics, Nanomaterials, Sensors
4	Dr. Jagrati Sahariya	Associate Professor	X-Ray Scattering, Charge and Magnetic Compton Profile, Ab-Initio Calculations, Density Functional Theory, Solar Cell Materials
5	Dr. Indrajit M.Nagpure	Assistant Professor	Optical, Biomedical, Solar Cell Materials and Devices

3. Non-teaching staff: Mrs Neha Raturi, Technical Assistant (Physics)

4. Ph.D. Students:

Sr. No.	Roll No.	Name	Full / Part Time	Supervisor	Co-Supervisor	Status
1	DS19PHJ001	Mr. Hardepinder Singh	Full Time	Dr. Hardeep Kumar	-	Pre-submission seminar/Synopsis seminar
2	DS21PHJ001	Ms. Preeti Negi		Dr. Hardeep Kumar	-	Ongoing
3	DS22PHJ002	Mr. Kailash Rangar	Full Time	Dr. Jagrati Sahariya	-	Pre-registration done
4	DS23PHJ001	Mrs. Kanchan Rawat			-	
5	DS24PHJ001	Ms. Shivanika Tariyal			-	Joined in Even Sem 2024
6	DS22PHJ001	Mr. Pradyuman Singh	Full Time	Dr. I. M. Nagpure	-	Ongoing
7	DS24PHJ002	Mr. Sushil Chauhan			-	Joined in Even Sem 2024
8	DS21PHJ002	Mr. Himanshu Saini	Full Time	Dr. Manvendra Singh Khatri	-	Ongoing
9	DS24PHJ003	Ms. Shailja Singh			-	Joined in Even Sem 2024

5. Research and Development Infrastructure/Laboratories

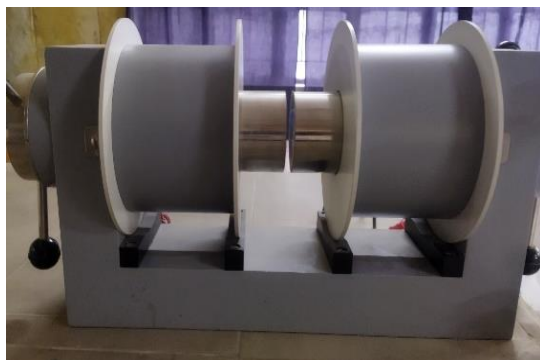
Equipment/Software	Application
Spin Coating Unit	It is used for coating substrates with variety of materials such as insulators, organic semiconductors, synthetic metals, nanomaterials, metal and metal oxide precursors, transparent conductive oxides and many more materials

Non-Refrigerated Centrifuge	It is used for separating two materials that have similar densities, or when insoluble particulates exist in a dissolved solution
Tubular Furnace	Material Synthesis and Processing, Heat Treatment
Muffle Furnace	
Electromagnet	Production of magnetic field
Electrochemical Workstation	Utilized for electrochemical analysis and for the deposition of thin films
Spray Pyrolysis	Utilized for fabrication of thin films and devices
NanoDcal Software	NanoDCAL Software which is computational software based on (DFT+NEGF) method for computing and simulating quantum transport in materials and devices



Non-Refrigerated Centrifuge

Electromagnet





Spray pyrolysis

6. Highlights/Achievements:

• Publications in National/International Journals

1. Shikha Sharma, Amit Soni, Jagrati Sahariya, Optical and Quantum Electronics 2024, 56, 428.
2. Shikha Sharma, Karina Khan, Mamta Soni, Ushma Ahuja, Amit Soni and Jagrati Sahariya, Physica Scripta 2023, 98, 085927.
3. Hansraj Karwasara, Karina Khan, Nirajan Pant, Rabin Acharya, Rajendra Adhikari, Shaimaa A M Abdelmohsen, Ashraf M M Abdelbacki, Amit Soni and Jagrati Sahariya, Physica Scripta 2023, 98, 075803.
4. A Gaur, K Khan, A Dashora, A Soni, J Sahariya, Journal of Mines, Metals & Fuels 2023, 71 (4), 563.
5. H Saini, S Gangwar, CS Yadav, MS Khatri, Protection of Metals and Physical Chemistry of Surfaces 59 (4), 694-703.
6. Hardepinder Singh, Mukul Gupta, Pooja Gupta, Rafaela F. S. Penacchio, Sergio L. Morelhao & Hardeep Kumar, Applied Physics A, 2023, 129, 312.

7. Preeti Negi, Mukul Gupta, Rajeev Rawat, Rajeev Joshi, Harsh Bhatt, Surendra Singh, V.R. Reddy, Hardeep Kumar, J. Magn. Magn. Mater. 2023, 581, 170941.

• **Publications in National/International Conferences**

1. BL Choudhary, PK Joshi, J Sahariya, K Kumar, A Soni, L Meena, BL Ahuja, AIP Conference Proceedings 2024, 3025, 040009.
2. Hansraj Karwasara, Karina Khan, Jagrati Sahariya, Amit Soni, AIP Conference Proceedings 2024, 3025, 040001.
3. Shikha Sharma, Karina Khan, Ushma Ahuja, Amit Soni, Jagrati Sahariya, AIP Conference Proceedings 2024, 3025, 040002.
4. Karina Khan, Mamta Soni, Jagrati Sahariya, Amit Soni, AIP Conference Proceedings 2023, 2978, 020014.
5. Hansraj Karwasara, Karina Khan, Ushma Ahuja, Amit Soni, Jagrati Sahariya, AIP Conference Proceedings 2023, 2728, 040012.
6. Aditi Gaur, Karina Khan, Amit Soni, Alpa Dashora, Jagrati Sahariya, Ushma Ahuja, AIP Conference Proceedings 2023, 2728, 040006.
7. K Khan, A Gaur, U Ahuja, A Soni, J Sahariya, AIP Conference Proceedings 2023, 2728, 040003.
8. S Sharma, K Khan, U Ahuja, A Soni, J Sahariya, AIP Conference Proceedings 2023, 2728, 040001.
9. H Saini, S Gangwar, CS Yadav, MS Khatri, Journal of Physics: Conference Series 2663 (1), 012011.

8. Details of R&D Projects:

Sr. No.	Title of the R&D Project	Funding Agency	Name of PI/Co-PI	Sanctioned Amount Rs. (in Lacs)	Status
1.	Structural, Electronic and Momentum Density Investigations of Novel Materials Applicable in Energy Conversion and Storage	CSIR, New Delhi	Dr. Jagrati Sahariya (PI)	24.00	Ongoing
2.	Study of FeRh epitaxial films and heterostructures for spintronics applications	UGC-DAE CSR, Indore	Dr. Hardeep Kumar (PI)	13.42	Completed

3.	Fabrication and haracterization of Co-based CoPt/Pt multilayered films by Electrodeposition	UGC-DAE CSR, Mumbai	Dr. M. S. Khatri (PI)	1.35	Completed
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9. Details of Conferences/STC/FDPs etc Organized:

(i) Dr. Jagrati Sahariya has organized the 5th National Conference on Recent Advancement in Physical Sciences (NCRAPS-2023) jointly organized by Department of Physics, Chemistry and Mathematics during December 19-20, 2023.

10. Details of Conferences/STC/FDPs etc Attended:

11. Collaborative activities:

(i) Publications in collaboration with UGC-DAE CSR, Indore; RRCAT Indore; BARC Mumbai/Univ. of Sao Paulo, Brazil.

05.07 DEPARTMENT OF MATHEMATICS

The Department of Mathematics was established in June 2019 with a strong commitment to providing quality education. Previously, it was a part of the Department of Sciences and Humanities. The department is staffed with 5 faculty members, including two Associate Professors, to cater the needs of the undergraduate and post-graduate programs at the institute. It offers core and elective courses for B.Tech, M.Tech, and Ph.D. programs. The department also runs a Ph.D. program with a focus on contemporary areas of fundamental importance. It organizes workshops, seminars, and expert lectures to enhance the professional growth of students from time to time. Currently, the Department of Mathematics has successfully conferred PhD degrees to four students. Additionally, there are currently 10 students actively pursuing their PhD degrees in the department. The department is going to start a new MSc Mathematics program in the 2024-25 session with intake of 20 students.

The Faculty members have published more than 100 research papers in various reputed national and international journals and presented many papers in international conferences. They are regularly invited to deliver guest lectures and invited lectures at many institutes.

Vision: To be among one of the best Mathematics departments across the globe by application-oriented teaching and research in Mathematics.

Mission:

- Offering undergraduate and postgraduate integrated programs in multidisciplinary/interdisciplinary and emerging areas of Mathematics.
- Developing the world-class infrastructure for the teaching and research environment for the students in the area of interdisciplinary Mathematics.
- Escalating the interest of students in the discipline of Mathematics for applying it in complex engineering and scientific problems for the development of the nation.

ACADEMIC STAFF:

S.No.	Faculty Name	Designation	Areas of Specialization
1.	Dr. Kusum Sharma	Assistant Professor & HoD	Mathematical Analysis, Approximation Theory & Summability Theory
2.	Dr. Dharmendra Tripathi	Associate Professor	Biofluid –Mechanics, Mathematical Modelling, CFD, Pumping Flow, Bone Mechanics, Microfluidics, Nanofluids, Non-Newtonian fluids
3.	Dr. Kuldeep Sharma	Associate Professor	Computational Mechanics & Numerical Methods
4.	Dr. Dheerendra B. Singh	Assistant Professor	Nonlinear Wave propagation & Gas-dynamics
5.	Dr. Nitin Sharma	Assistant Professor	Mathematical Biology & Molecular Dynamics

NON-TEACHING STAFF :

S.No.	Name	Designation	S.No.	Name	Designation
1.	Mr. Anil Bhatt	Lab Technician			
2.	Ms. Neha Raturi	Lab Technician			

Ph.D. STUDENTS : 10 (09 Full Time and 01 Part Time)

S. No.	Roll No.	Name	Full / PartTime	Supervisor	Co-Supervisor	Status
1.	DS21MAJ002	Ms. Diksha Dumka	Full Time	Dr. Kusum Sharma	-	Ongoing
2.	DS22MAJ001	Ms. Anjali Bhardwaj		Dr. Dharmendra Tripathi	-	Ongoing
3.	DS22MAJ002	Mr. Ashwini Kumar			-	Ongoing
4.	DS20MAJ001	Mr. Ashish Kumar		Dr. Kuldeep Sharma	-	Ongoing
5.	DS19MAJ004	Ms. Rajlaxmi Rath	Part Time		-	Ongoing
6.	DS24MAJ001	Mr. Himanshu Notiyal	Full time	Dr. D. B. Singh	-	Ongoing
7.	DS19MAJ005	Mr. Vidit Kumar Vats			-	Pre-PhD Submission viva has been conducted
8.	DS23MAJ002	Mr. Mrigendra			-	Ongoing

9.	DS19MAJ00 2	Mr. Sunil Singh Negi		Dr. Nitin Sharma	-	Thesis Submitted
10.	DS23MAJ00 3	Ms. Ravina			-	Ongoing

RESEARCH AND DEVELOPMENT INFRASTRUCTURE/LABORATORIES:

Computational Laboratory was established in 2022 for UG/PG and PhD students to carry out research activities related to computational techniques & algorithms and also for educating the B.Tech. students in mathematics through computer programming and symbolic software.

Equipment	Quantity	Specifications
Desktop Computers	21	Processor: Intel Core i7-12th generation, 32 GB RAM
Workstation-1	01	Processor-Intel(R) Xeon(R), CPU E5-2650 v4@2.20GHz, Dual Processor (12 Cores), RAM-8GB
Workstation-2	01	Processor-Intel(R) Xeon (R), W-2245 CPU@3.90GHz, 8 Cores, 16 Logical Processor, RAM-32GB
Online UPS	01	10KVA

**DETAILS OF R&D PROJECTS:**

S. No.	Title of the R&D Project	Funding Agency	Name of PI/Co-PI	Sanctioned Amount Rs. (in Lacs)	Status
1	Computational Modelling and Validation for Directly Transmitted Viral Infection Spread: Pathogenesis and Blood Flow Dynamics	SERB	Dr. Dharmendra Tripathi	6,60,000/-	Ongoing
2	entitled Extended Finite Element Method for Semipermeable Nonlinear Fracture Models in Smart	SERB	Dr. Kuldeep Sharma	20,49,696/-	Ongoing

Materials:	Mathematical Analysis and Simulation				
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DETAILS OF CONSULTANCY PROJECTS:

S. No.	Consultancy Given by	Project	Name of Project Investigator	Co-PI	Consultancy Amount (₹)	Status
1.	-	-	-	-	-	-

DETAILS OF PATENTS/COPYRIGHT ETC:

S. No.	Title	Application Number	Date of Filing/Publication/Award	National/ International	Name of Inventors
	-	-			

HIGHLIGHTS/ACHIEVEMENTS:**Paper Publications**

1. Nitin Sharma, "Computational and Statistical Aspects to Classify the Solvents Effect on Dynamics of O₂ Molecule", Investigacion Operacional, Vol.45, No.1, 79-84, 2024.
2. Pankaj Singh Rana, Nitin Sharma, and Anupam Priyadarshi, "Mathematical modeling and optimal control of a deterministic SHATR model of HIV/AIDS with the possibility of rehabilitation: a dynamic analysis", Tamkang Journal of Mathematics, (ESCI/SCOPUS, I.F. 0.312), DOI: 10.5556/j.tkjm.55.2024.5109.
3. Sunil Singh Negi, Nitin Sharma, Pankaj Singh Rana, "Mathematical modelling of SARS-CoV-2 transmission dynamics: a case study of the most affected East Asian countries", has been accepted in "Journal of Applied Nonlinear Dynamics", (2024).
4. Ashish Kumar, Kuldeep Sharma, Tinh Quoc Bui, Singular integral method based closed form solution for moving EMPS model in semipermeable two- equal- collinear cracked MEE material, ZAMM- Journal of Applied Mathematics and Mechanics-ZAMM, e202300731 (2024).
5. Ashish Kumar, Kuldeep Sharma, Tinh Quoc Bui, Singular integral based closed-form solutions for modified EMPS models in semipermeable magneto-electro-elastic materials, Applied Mathematical Modelling, 129 (2024), 673-695.
6. Kuldeep Sharma, Sandeep Singh and Tinh Quoc Bui, Simplified numerical algorithms for generalized strip saturated two equal collinear cracks in piezoelectric media using distributed dislocation technique, ZAMM Journal of Applied Mathematics and Mechanics, 103(11), 2023, e202300004. [IF: 2.3].

7. Kusum Sharma, Diksha Dumka, "Convergence of a Conjugate Function in Zygmund Space by Almost Nörlund Transform", Journal of Applied Analysis", vol. 29, no. 2, 2023, pp. 329-339. <https://doi.org/10.1515/jaa-2022-1004>.
8. Kusum Sharma, Diksha Dumka, L. Rathore, M.K. Sharma, L. N. Mishra, "Error of Approximation of Function in Lipchitz Class via Almost (N, p_k, q_k) -Means", Advanced Mathematical Models & Applications, Vol. 8, no. 1, 2023, pp. 116-124.
9. Kusum Sharma, Diksha Dumka, Survey on approximation of Fourier Laguerre series by various summation methods, AIP conference Proceedings 2728, 030017 (2023).
10. D. S. Bhandari, Anjali Bhardwaj, and Dharmendra Tripathi, Parametric analysis of multi membrane based pumping flow model with induced magnetic field, Chinese Journal of Physics, In Press, (2024) [IF: 5.0]
11. P. Deepalakshmi, E. P. Siva, D. Tripathi, O. Anwar Bég and S. Kuharat, MHD Peristaltic Two-Phase Williamson Non-Newtonian Flow through the Ureteral Tube with Microliths: Electromagnetic Therapy Simulation, Numerical Heat Transfer, Part A: Applications, In Press, (2024) [IF: 1.3]
12. Saima Noreen, Sidra Batool and Dharmendra Tripathi, Electroosmosis and peristaltic mechanism in a symmetric channel flow, Microfluidics and Nanofluidics (2024) 28:15 [IF: 2.8]
13. Mahadev M. Channakote, C Siddabasappa and Dharmendra Tripathi, Peristaltic mechanism of Ellis fluid with viscous dissipation and thermal radiation induced by cilia wave, International Journal of Computational Materials Science and Engineering, In Press, (2024) [IF: 1.3]
14. Himanshu Upreti, J. Prakash, Usman, Alok Kumar Pandey, Dharmendra Tripathi, Thermal Analysis of 3D Darcy-Forchheimer Flow of SWCNT-MWCNT/Sodium Alginate on Riga Plate, Journal of Thermal Analysis and Calorimetry, In Press, (2024) [IF: 4.755]
15. Rahul Shukla, Ashvani Kumar, Amit Medhavi, and Dharmendra Tripathi, Heat transfer and Surface Roughness Analysis via Peristaltic Pumping of Viscous Fluids through Diverging Tube, Numerical Heat Transfer, Part A: Applications, In Press, (2024) [IF: 1.8]
16. Vaidya, Hanumesh, D. Tripathi, Fateh Mebarek-Oudina, C. Rajashekhar, Haci Mehmet Baskonus, and K. V. Prasad. "Scrutiny of MHD impact on Carreau Yasuda (CY) fluid flow over a heated wall of the uniform micro-channel." Chinese Journal of Physics 87 (2024): 766-781. [IF: 5.0]
17. Bhardwaj, Anjali, Ashvani Kumar, D. S. Bhandari, and Dharmendra Tripathi. "Alteration in electroosmotic flow of couple stress fluids through membrane based microchannel." Sensors and Actuators A: Physical 366 (2024): 114956. [IF: 4.6]
18. Farhan Ahmed, Noreen Sher Akbar and Dharmendra Tripathi, Hydro-dynamically and thermally fully developed flow analysis of magneto-hydrodynamic fluid through annular duct, International Journal of Modern Physics B (2024) 2450098 (20 pages). [IF: 1.404]
19. Farhan Ahmed, Noreen Sher Akbar and Dharmendra Tripathi, Numerically hydrothermal fully developed forced convective hybrid nanofluid flow through

20. annular sector duct, Modern Physics Letters B (2024) 2450029 (23 pages) [IF: 1.668]
21. Upadhyay, Apoorva, Aishwarya Upadhyay, Prakash Kumar Sarangi, Aakash Chawade, Nidhi Pareek, Dharmendra Tripathi, and Vivekanand Vivekanand. "Machine learning approach for microbial growth kinetics analysis of acetic acid-producing bacteria isolated from organic waste." Biochemical Engineering Journal 202 (2024): 109164. [IF: 3.9]
22. Daya Ram, D. S. Bhandari, Dharmendra Tripathi, and Kushal Sharma, Motion of bacteria and CaOx particles via urine flow modulated by the electroosmosis, Physics of Fluids, In Press, (2023) [IF: 4.6]
23. M. Ganeswara Reddy, K. Bhagya Swetha Latha, D. Tripathi, O. Anwar Bég, S. Kuharat and Martin L. Burby, Ternary Cobalt ferrite (CoFeO₄) -Silver (Ag) -Titanium dioxide (TiO₂) hybrid nanofluid hydromagnetic non-linear radiative-convective flow from a rotating disk with viscous dissipation, non-Darcy and non-Fourier effects: Swirl coating simulation, Numerical Heat Transfer, Part A: Applications, In Press, (2023) [IF: 2.0]
24. Hanumesh Vaidya, Kerehalli Vinayaka Prasad, Dharmendra Tripathi, Rajashekhar Choudhari, Hanumantha and Hijaz Ahmad, Viscoplastic hybrid nanofluids flow through vertical Stenosed Artery, BioNanoScience, In Press (2023), [IF: 3.0]
25. J. Prakash, Himanshu Upreti Dharmendra Tripathi, and Alok Kumar Pandey, Irreversibility and heat transfer analysis in MHD Darcy-Forchheimer flow of Casson hybrid nanofluid flow through cone and wedge, Numerical Heat Transfer, Part A: Applications, In Press (2023), [IF: 2.569]
26. Dharmendra Tripathi, D.S. Bhandari and O.A. Beg, A critical review on micro-scale pumping based on insect-inspired membrane kinematics, Sensors and Actuators: A. Physical, In Press (2023), [IF: 4.291]
27. Saima Noreen, Kaneez Fatima and Dharmendra Tripathi, Electroosmosis-driven heat transfer in Jeffrey fluid flow through tapered porous channel, Numerical Heat Transfer, Part A: Applications, In Press (2023), [IF: 2.569]
28. Mohit Pandya, A K Ansu, Ravi Kumar Sharma, Dharmendra Tripathi, V V Tyagi and Ahmet Sari, Investigation on Thermal Energy Storage Properties of Polyethylene Glycol with Hybrid Nanoparticles of Al₂O₃ and CuO for Solar Thermal Energy Storage, ECS Journal of Solid State Science and Technology, In Press (2023), [IF: 2.070]
29. KBS Latha, M Ganeswara Reddy, D Tripathi, OA Bég, S Kuharat and Hijaz Ahmad, Computation of stagnation coating flow of electro-conductive ternary Williamson hybrid GO-AU-Co₃O₄ / EO nanofluid with a Cattaneo-Christov heat flux model and magnetic induction, Scientific Reports, In Press (2023), [IF: 4.997]
30. Nikhil Vivek Shrivastava, Subham Badhyal, Abhishek Kumar Tiwari, Ashutosh Mishra Dharmendra Tripathi, and Santosh Patil, Computation of Physiological Loading induced Interstitial Fluid Motion in Muscle Standardized Femur: Healthy vs. Osteoporotic Bone, Computer Methods and Programs in Biomedicine 237 (2023) 107592, [IF: 7.027]
31. Shrivastava, Nikhil V., Abhishek K. Tiwari, Santosh Patil, and Dharmendra Tripathi. "Physiological loading-induced streaming potentials in osteogenesis imperfecta bone." Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science (2023): 09544062231181805. [IF: 1.724]

32. Vats, V.K., Singh, D.B., Amin, D., Similarity solution for magnetogasdynamic spherical shock wave in a self-gravitating non-ideal radiating gas using lie invariance method, Journal of Engineering Mathematics, 143 (1), 2023.
33. Vats, V.K., Singh, D.B., Amin, D.,: Propagation of magnetogasdynamics spherical shock wave in a gravitating gas with radiation heat flux. Phys. Fluids 35, 126112 (2023)

DETAILS OF CONFERENCES/STC/FDPs/ EXPERT LECTURES ETC ORGANIZED:

1. International Conference on "Recent Advances in Fluid Mechanics and Nanoelectronics"-(ICRAFMN-2023)" organized by MIT Bengaluru in association with NIT Uttarakhand during July 12-14, 2023.
2. National Conference on "Recent Advances in Physical Sciences (NCRAPS-2023)" jointly organized by the Department of Chemistry, Physics, and Mathematics, during December 19-20, 2023 at NIT Uttarakhand.
3. International conference on "Intelligent Computing Techniques for Smart Energy Systems (ICTSES-2023)" organized by SEEC, Manipal University Jaipur, in association with the NIT Uttarakhand, MNIT Jaipur, and IIIT, Ranchi, India during December 14-15, 2023.
4. Dr. Dharmendra Tripathi acted as Convenor, Workshop on "INDIA@2047- Challenges, Opportunities, and Roadmap" jointly organized by MNIT Jaipur and NIT Uttarakhand on 13th June 2023.
5. Dr. Dharmendra Tripathi acted as Convenor, Workshop on "N-LEAP NITs- Leadership for Academicians Programme" jointly organized by MNIT Jaipur and NIT Uttarakhand on 14th June 2023.
6. Webinar on National Science Day jointly organized by the Department of Chemistry, Physics and Mathematics, on Feb 28, 2023 at NIT Uttarakhand
7. In-house training programme on "Basic Statistics in Data Science, AI and Machine Learning" was organized for students/scholars of the Institute during (4th-16th April, 2023).
8. An In-house training programme on "Data Analytics with Excel" was organized for students/scholars of the Institute on 4th April, 2023.
9. An expert lecture on the topic "Glimpses of Mathematics at the Frontiers of Science and Technology" was organized on 26th April 2023 for UG, PhD students and Faculty members of the Institute at LH-2. Prof. B.V. Rathish Kumar, Professor, Department of Mathematics, IIT Kanpur was the expert for the talk.
10. An expert lecture on the topic "Applications of Mathematics in Cryptography" was organized on 27th April 2023 for UG, PhD students and Faculty members of the Institute. Prof. P.L. Sharma, Professor, Department of Mathematics, HP University Shimla and Director, UIET Shimla was the expert for the talk.

DETAILS OF CONFERENCES/STC/FDPS ATTENDED:

1. Dr. Dharmendra Tripathi participated in A Five-Day Workshop on “Writing Good Research Project Proposals for External Funding” organized by R&C section, NIT Uttarakhand during January 22 - 27, 2024
2. Dr. Dharmendra Tripathi participated in One Day Online Workshop on “Setting Career Goals in Mathematical Sciences” organized by the Department of Mathematics and Statistics, School of Basic Sciences, Faculty of Science, Manipal University Jaipur, Rajasthan, India on May 29, 2023.
3. Dr. Kusum Sharma participated in A Five-Day Workshop on “Writing Good Research Project Proposals for External Funding” organized by R&C section, NIT Uttarakhand, January 22 - 27, 2024.
4. Dr. Kusum Sharma attended the online workshop on Gender Sensitization & Prevention of Sexual Harassment of Women at Workplace held from 06.06.2023 to 07.06.2023.

COLLABORATIVE ACTIVITIES :

1. Amit Soni, D. Tripathi, Jagrati Sahariya, and Kamal Nayan Sharma, *Eco-Materials and Green Energy for a Sustainable Future*, CRC Press | Taylor & Francis Accepted (2023)
2. D. Tripathi, Ravi K. Sharma, Hakan F. Oztog and R. Natarajan, *Nanomaterials and Nanoliquids: Applications in Energy and Environment*, Springer (2023), ISBN 978-981-99-6923-4. <https://doi.org/10.1007/978-981-99-6924-1>
3. 1st International Conference on Multidisciplinary Approaches for Sustainable Development in Science & Technology (MASDST-2024) from 28th - 29th March 2024 organized by School of Electrical, Electronics & Communication (SEEC), Manipal University Jaipur in association with School of Business and Commerce, Manipal University Jaipur, Malaviya National Institute of Technology (MNIT), Jaipur, India and National Institute of Technology, Uttarakhand, India.

OUTREACH ACTIVITIES:

1. Dr. Kusum Sharma delivered an expert talk on Relations and functions in day-to-day life on 13th January 2024 organized by Jawahar Navodaya Vidhyalaya under an Initiative to promote interest in Science & Technology (Sponsored and funded by the Department of Science & Technology, Govt. of India).
2. Dr. Kusum Sharma delivered a lecture on the Role of Mathematics in Career building on June 30, 2023, organized by Mody University of Science and Technology, Rajasthan.
3. Dr. Tripathi delivered an invited talk on “Motion & Trajectories of CaOx and Bacterial Particles through Urine Flow modulated by Electroosmosis” and chaired a Session in International Symposia on Advances in Mathematical Sciences (ISAMS-2024)

organized by Canadian University Dubai, UAE in association of Dr. BRA NIT Jalandhar during March 23-24, 2024

4. Dr. Tripathi delivered an invited talk on “Bacterial and CaOx Particles Motion via Urine Flow Driven By Electroosmosis” in 30th International Conference of International Academy of Physical Sciences (CONIAPS XXI) on “Recent Advances in Science & Technology towards Sustainability (RASTS-2024)” organized by J.C. Bose University of Science & Technology, YMCA, Faridabad, India during Feb. 28-29, 2024.
5. Dr. Tripathi delivered an expert lecture on “Analysis Of Rheological Behavior In Membrane-Based Pumping Flow Model: Applications in Biological Flows” in Online Faculty Development Programme on “Recent Trends in Biomathematics & Dynamical Systems with Bifurcation, Chaos & Simulation Methods”, organized by the Department of Mathematics, Mahadevananda Mahavidyalaya, from 7 Feb. 2024 to 13 Feb. 2024.
6. Dr. Tripathi delivered an expert lecture on “Computational Analysis for Interstitial Fluid flow in Bone Disorders” in Certificate Course on “Mathematical Modelling on biological and physical systems with different numerical simulation techniques” organized by Department of Mathematics, Mahadevnanda Mahavidyalaya, Udisa, during 04th -09th Jan 2024.
7. Dr. Tripathi delivered an invited lecture on “Overview on Intellectual Property Rights (IPR)” in
8. A Workshop on “SECURING RESEARCH FUNDING” organized by RDC and HC-HNBBG University, Srinagar, December 11-12, 2023
9. Dr. Tripathi delivered an invited lecture on “Application of Partial Differential Equations in Bone Mechanics” in National Webinar on “Differential Equations and Applications” on 27th September 2023 organized by Department of Mathematics, Rajiv Gandhi University, Arunachal Pradesh, India.
10. Dr. Tripathi delivered an Keynote talk on “Shear-Thinning And Thickening Effects On Fluids Flow Driven By Membrane-Based Pumping: Modelling & Simulation” in 3rd International Conference on “Recent Advances in Material Science and Computational Techniques (RAMSACT-2023)” organized by Manipal University Jaipur during September 20-21, 2023
11. Dr. Tripathi delivered an invited lecture on “Bioinspired Membrane Based Pumping Mechanism for micro level Transport Phenomena” in XXIX International Conference of International Academy of Physical Sciences on Computational & Physical Sciences Innovations for Sustainable Development organized by Shivalik College of Engineering, Dehradun, UK, India, during July 21-23, 2023
12. Dr. Tripathi delivered an invited lecture on “Non-Newtonian effects on bioinspired membrane pumping mechanism” National Conference on “Recent Trends in Mathematical Biology - Theory, Methods and Applications” organized by the

Department of Mathematics and Computer Science (DMACS) of Sri Sathya Sai Institute of Higher Learning (SSSIHL), A. P. India during July 20-22, 2023.

13. Dr. Tripathi delivered an invited lecture on “Thermal Effects on Membrane Based Pumping Mechanism for Energy Systems” in International Conference on Modelling, Simulation and Optimization of Energy Systems (MSOES 2023) organized by Canadian University Dubai, UAE during June 17-18, 2023.

SPECIAL ACHIEVEMENTS:

1. ITSR FOUNDATION AWARD 2023 (Best Researcher Award) to Dr. Dharmendra Tripathi awarded by The Institute of technical and Scientific Research in association with the Institution of Engineers (India), Rajasthan State Centre, Jaipur, and Ambuja Cement Foundation for accountable contribution in academics on September 24, 2023.
2. Dr. Dharmendra Tripathi is appointed as Guest Editor for following journals:
 - a) Critical Reviews™ in Biomedical Engineering (Special Issue on "Mathematical Biology"), Begell House.
 - b) International Journal of Numerical Methods for Heat & Fluid Flow (Special Issue on “Computational Methods for Mathematical Models in Heat, Fluid Flow and Allied Topics with Applications” <https://www.sciencedirect.com/journal/international-journal-of-thermofluids/about/call-for-papers#icrafmn-2024-recent-advancements-in-nanofluids-and-hybrid-nanofluids-modeling-simulation-experimentation>.),
 - c) International Journal of Applied Nonlinear Science (RAAM 2024: Special Issue on: "Emerging Mathematical and Computational Methods for Non-Linear Phenomena"), (<https://www.inderscience.com/info/ingeneral/cfp.php?id=5849>);
 - d) International Journal of Thermofluids Special issue: ICRAFMN-2024: 2nd International Conference on Recent Advances in Fluid Mechanics and Nanoelectronics” ;
 - e) Special Topics & Reviews in Porous Media: An International Journal Special Issue: ICRAFMN-2024: Recent Mathematical Models on Nanofluids Flow and Heat Transfer in Porous Media;
 - f) Interaction Special issue: ICRAFMN-2024: 2nd International Conference on Recent Advances in Fluid Mechanics and Nanoelectronics”,g) Science Talks Special issue: ICRAFMN-2024: 2nd International Conference on Recent Advances in Fluid Mechanics and Nanoelectronics”
3. Dr. Dharmendra Tripathi is appointed Associate Editor and Review Editor, Advances in Mechanical Engineering (<https://journals.sagepub.com/editorial-board/ADE>)
4. Dr. Dharmendra Tripathi is appointed the Editor, SCIENCE, ENGINEERING AND TECHNOLOGY ISSN: 2744-2527 (Online); ISSN: 2831-1043 (Print) Sept 2023 onwards. (<https://setjournal.com/SET/about/editorialTeam>).

5. Dr. Dharmendra Tripathi was the Guest editor, Special issue on Recent Advances in Fluid Mechanics and Nanoelectronics: Memorializing ICRAFMN-2023 in Physics of Fluids and Journal of Applied Physics (<https://publishing.aip.org/publications/journals/special-topics/jap/recent-advances-in-fluid-mechanics-and-nanoelectronics-memorializing-icrafmn-2023/>)

STUDENT'S ACHIEVEMENTS:

1. Ms. Diksha Dumka, Research Scholar in the Department of Mathematics, has received the Young Scientist Award for the best presentation under the discipline of Mathematics, Statistics and Computer Science during the 18th Uttarakhand State Science and Technology Congress-2024 organized by UCOST, Dehradun on 8-9 February 2024 at Uttarakhand Open University, Haldwani.
2. Ms. Diksha Dumka presented a paper entitled "Approximation in the weighted Lipschitz class by $(C, \alpha, \theta)(E, q)$ mean of its Fourier series" authored by Kusum Sharma and Diksha Dumka in the International conference on "Intelligent Computing Techniques for Smart Energy Systems (ICTSES-2023)" organized by SEEC, Manipal University Jaipur, in association with the NIT Uttarakhand, MNIT Jaipur, and IIIT, Ranchi, India during December 14-15, 2023.

OTHER ACTIVITIES:

1. Dr Dharmendra Tripathi visited BITS Pilani, Dubai Campus, UAE, during June 20-22, 2023 and presented a paper on "Analysis of Progression of Virus via Blood Flow in Circulatory System" International Conference on Recent Advances in Applied Mathematics (RAAM 2023) organized by BITS Pilani, Dubai Campus, UAE.
2. AK Tiwari, Shivam Saini, Anil Sharma, Manish Rawat, Dharmendra Tripathi, AN ECONOMICAL, AUTOMATED, NON-INVASIVE DEVICE FOR SPINAL CURVATURE MEASUREMENT, Patent No:489789; Application No: 201911003426, Date of Filing: 28/01/2019, Status: Granted, Patentee: Manipal University Jaipur, Date of Grant: 27/12/2023.

05.08 DEPARTMENT OF CHEMISTRY

Department of Chemistry was established in the year 2019 and erstwhile it was an integral part of Department of Science & Humanities since 2010. Department is teaching Applied Chemistry course and Applied Chemistry Lab Course for B.Tech 1st year (first and second semester). Courses. Faculty from the department are also teaching Engineering Chemistry and Quantum Chemistry courses to other than 1st year B.Tech. Department also offers various open elective courses for PhD course work. The main goal of offering these courses

is to develop requisite proficiency and abilities to meet the challenges in engineering field to succeed in engineering career.

The department has started M.Sc. Programme in Chemistry from the academic year 2024 under self-sponsored programme with 20 intakes. Department comprises well-equipped Chemistry Laboratory along with state-of-the-art research laboratory. Currently ten PhD students are working in the department whereas one PhD student has been awarded with PhD degree.

Department of Chemistry entails 02 Associate Professors, 03 grade-I Assistant Professors (including 01 on lien) with PhD degree. The average experience of faculty members including PhD degree is ~15 years. Departmental faculty are actively engaged in teaching, research along with other important assignments given by the institute. Department also offers consultancy in Synthesis of Organic and Inorganic compounds. Faculty members are discharging important administrative responsibilities like Associate Dean (International & Alumni Affairs), Chief Warden, Warden etc.

Vision/Mission (if any):

Vision: To envisage and excel in chemical education and research addressing the industrial and societal challenges to cater to the needs of national science and technology programs.

Mission:

1. Providing students the deep-rooted knowledge in Chemical Sciences and research-oriented environment to broaden their ideas.
2. Promoting the cutting-edge research in the Chemical Sciences by establishing the state-of-the-art laboratories.
3. Facilitating students with knowledge and skills to identify and address the industrial as well as societal challenges.
4. Fostering the learning process by helping individuals to develop their potential and to spark their own ideas which will help in building their professional lives.

Academic Staff:

S. No.	Faculty Name	Designation	Areas of Specialization
1.	Dr. Rakesh Kumar Mishra	Assistant Professor & Head	Small Molecule Probes, Fluorescent Materials, Covalent-Organic

			Frameworks, Biochar based Functional Materials,
2.	Dr. Saroj Ranjan De	Associate Professor	Development of new methodology reactions, Total Synthesis of Bioactive Natural Products, Transition-Metal-Catalyzed C-H Activation Reactions,
3.	Dr. Pankaj Kandwal	Associate Professor	Theoretical calculations on molecules and materials, Computational material science, Membrane Science and Technology, Separation of hazardous contaminants from aqueous streams,
4.	Dr. Kamal Kant Tiwari	Assistant Professor	Ground water quality, Coordination Chemistry and Biological Applications of metal-complexes.
5.	Dr. Rampal Pandey	Assistant Professor (on-lie)	Synthesis and Structural Chemistry, Metal-Organic Frameworks, Supramolecular Chemistry, Soft and responsive materials, Catalysis and photo-catalysis,

Non-teaching staff:

Permanent: 1) Mrs. Neha Raturi (Technical Assistant), 2) Mr. Anil Bhatt (Technician)

Outsourcing: Mr. Manish Chamoli (Data Entry Operator)

Ph.D. Students:

S. No.	Student Name	Supervisor	Co-supervisor
1.	Ms. Vaishali Singh	Dr. Rampal Pandey	--
2.	Mr. Masood Zafar	Dr. Rakesh K. Mishra	--
3.	Ms. Himani Sharma	Dr. Kamal Kant Tiwari	Dr. Rampal Pandey
4.	Mr. Sandeep Singh	Dr. Saroj R. De	--
5.	Mr. Sandeep Joshi	Dr. Rampal Pandey	--
6.	Ms. Rashmi Raghav	Dr. Kamal Kant Tiwari	Dr. Pankaj Kandwal
7.	Ms. Apoorva Anthawal	Dr. Pankaj Kandwal	--

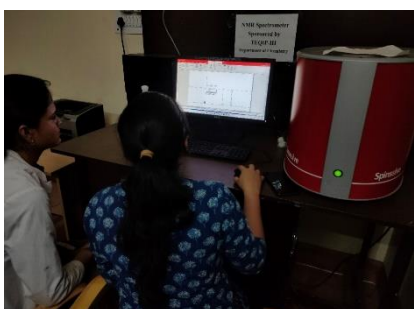
8.	Ms. Neha Thakur	Dr. Rampal Pandey	--
9.	Ms. Prachi Rai	Dr. Saroj R. De	
10.	Mr. Alok Singh	Dr. Rakesh K. Mishra	

Research and Development Infrastructure/Laboratories

B.Tech. Laboratory:



Research & Instrumentation Laboratories:



43MHz Benchtop NMR



Rotary evaporators



Microscope



Fume hood



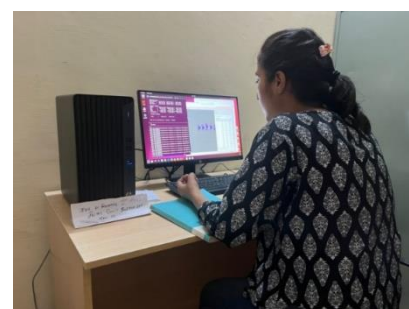
Low temperature bath



Hot Air Ovens



UV-visible light chamber

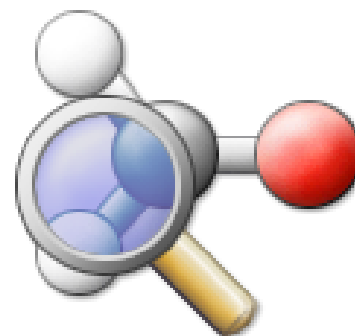


Workstation

Software:



Gaussian Software



Gauss View Software

1. Highlights/Achievements:

(a) PhD Degree

1. Mr. Zafar Iqbal has been awarded Ph.D. degree in the year 2023.

(b) Invited Lectures

1. Delivered invited talk on “Strategic Design Towards Imidazole-based Multi-Functional Fluorophores” February 28, 2024 at “International Conference on Crossroads of Chemistry and Biology: A Modern Prospective (ICCB-2024)” from February 26-28, 2024 at Department of Chemistry, University of Delhi, Delhi 110007, India.
2. Delivered an invited talk in XXIX International Conference on Synthetic Perspective of Biochar based Functional Material, XXIX International Conference of International Academy of Physical Sciences (CONIAPS XXIX), Shivalik College of Engineering, Dehradun, India, July 22, 2023.
3. Delivered an invited talk in Workshop on Intellectual Property Rights by HNBGU and UCOST Dehradun, Hemvati Nandan Bahuguna Garhwal University, June 03, 2023.
4. Delivered an invited talk on IR Spectroscopy: Fundamentals and Application in DST-STUTI Programme, association with Banasthali Vidyapith on “Skill Development Program on Sophisticated Research Instruments” Department of Chemistry, Hemvati Nandan Bahuguna Garhwal University (A Central University) Srinagar Uttarakhand May 18, 2023.

• **Publications in National/International Journals:**

1. Metal nitrate promoted highly regiospecific ortho–nitration of phenols: Application to the synthesis of nitroxynil. Z. Iqbal, A. Joshi, S. R. De* Synth. Commun. 2023, 53, 557-567.
2. Deoxygenation of sulfoxides using D-camphorsulfonic acid as an efficient reducing agent under metal and additive-free conditions. A. Joshi, S. Singh, S. R. De* J. Chem. Sci. 2024, 136, 1-6.
3. Copper-Promoted Dimerization of Benzyl Thiocyanates to Access Functionalized Bibenzyls. S. Singh, S. R. De* Synlett 2024, DOI: 10.1055/a-2330-9955. This work has been considered in the competition of best paper award of the year among top three publications by the Editor.
4. Exploring the synergy between copper electrolytes and molecularly engineered thiocyanate-free cyclometalated ruthenium sensitizers for dye-sensitized solar cells, Sruthi M. M., S. C. Pradhan, A. S. George, Nitha P. R., Rakesh K. Mishra, J. John, and Suraj Soman, Photochem. Photobiol., 2024, doi:10.1111/php.13984.
5. Imidazole assisted film-based fluorescent sensor for ultrasensitive detection of hydrazine, M. M. Zafar, S. C. Sahoo, V. K Praveen, N. Tyagi and Rakesh K. Mishra, J. Mater. Chem. C, 12, 2024, 7472-7481
6. Microalgae derived honeycomb structured mesoporous diatom biosilica for adsorption of malachite green: Process optimization and modelling, S. Dubey, Rakesh K. Mishra, S. Kaya, E. R. Rene, B. Shekher Giri, Y. C. Sharma, Chemosphere, 355, 2024, 141696.

7. Spontaneous Curvature Induction in an Artificial Bilayer Membrane, D. Elizebath, B. Vedhanarayanan, A. Dhiman, Rakesh K. Mishra, C. N. Ramachandran, T.-W. Lin, V. K. Praveen, Angew. Chem. Int. Ed., 63, 2024, e202403900. (Published as Hot Article).

- Publications in National/International Conferences: Nil

- Publication of Book/Book Chapters.

- ❑ “Polysaccharide-Based Fluorescent Materials for Sensing and Security Applications” A. Padmakumar, D. Elizebath, C. J. Jith, Rakesh K. Mishra* and Vakayil K. Praveen*, in Polysaccharides: Advanced Polymeric Materials, Sharma, B.; Hoque, M. E.; Sharma, S. (Eds.), CRC Press, Taylor & Francis Group 2023, ISBN: 9781003265054

- Details of Patents/Copyright etc:

Sl. No.	Title	Application Number	Date of Filing /Publication/ Award	National / International	Name of Inventors
1.	“A Process for Carbon Dioxide Adsorption Induced Switchable Antibacterial Activity of a Smart Covalent Organic Framework”	WO/2023/131977	13.07.2023	International	A. Ajayaghosh, A. Mal, Rakesh K. Mishra, D. B. S. Kumar, J. Jacob, S. Shankar

Details of R&D Projects:

Sr. No.	Title of the R&D Project	Funding Agency	Name of PI/Co-PI	Sanctioned Amount Rs. (in Lacs)	Status

1.	Development of COF/CONs supported semiconducting Materials for Solar light Assisted efficient Hydrogen Production from Ocean	Deep Ocean Mission (DOM), Ministry of Earth Sciences (MoEs), Government of India	1. Dr. Nidhi Naithani, PI(AUP) 2. Dr. Rakesh K. Mishra, Co-PI (NITUK) 3. Dr. M. P. Reddy, Co-PI (AUP)	60.00	Approved
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Details of Conferences/STC/FDPs etc Organized:

1. Coordinator, five-day workshop on “Writing Good Research Project Proposals for External Funding” January 22-27, 2024.
2. Organizing Secretary, the 5th National Conference on Recent Advancement in Physical Science (NCRAPS-2023), December 19-20, 2023 jointly organized by Department of Chemistry, Department of Physics and Department of Mathematics, National Institute of Technology Uttarakhand.
3. Organized (Technical Program Chair) the 3rd International Conference on Intelligent Computing Techniques for Smart Energy Systems (ICTSES-2023), December 14-15, 2023 at School of Electrical, Electronics & Communication Engineering Manipal University Jaipur.

Details of Conferences/STC/FDPs etc Attended:

- ☐ Attended/Participated in work shop on Writing Good Research Project Proposals for External Funding during January 22-27, 2024.

Collaborative activities:

Research collaborations are underway with;

1. Kyushu University and AIST, JAPAN
2. CSIR-IIP Dehradun and CSIR-NIIST Thiruvananthapuram
3. Institute of Science, Banaras Hindu University, Varanasi
4. Indian Institute of Technology, Hyderabad
5. Indian Institute of Technology, Varanasi
6. National Institute of Technology, Kurukshetra
7. Guru Ghasidas Vishwavidyalaya Bilaspur, CG, India
8. Babasaheb Bhimrao Ambedkar Central University, Lucknow.

9. AMITY University, Noida and AMITY University, Panjab
10. National Institute of Technology, Rourkela
11. Shiv Nadar University, Gautam Buddha Nagar, Uttar Pradesh 201314, India
12. Jilin University, China
13. Osaka Metropolitan University, Japan
14. Radiochemistry Division, BARC Mumbai
15. Doon University, Dehradun
16. Sri Guru Ram Rai University, Dehradun
17. SLIET, Longowal, Punjab
18. Suresh Gyan Vihar University, Jaipur

Outreach Activities

- Chaired the session in 5th National Conference on Recent Advancement in Physical Science (NCRAPS-2023), December 19-20, 2023 jointly organized by Department of Chemistry, Department of Physics and Department of Mathematics, National Institute of Technology Uttarakhand.

Student's Achievements:

- Dr. Rohit Kumar is working as Head, Department of Chemistry, IFTM University Moradabad, Uttar Pradesh.
- Dr. Asha Joshi is selected as Postdoctoral Fellow in Department of Chemistry, IIT Kanpur
- Dr. Zafar Iqbal got the Research Scientist position in PI industries Ltd Udaipur.

05.09 DEPARTMENT OF HUMANITIES & SOCIAL SCIENCES

proposed the vote of thanks. Dr. Tripathi praised about the effort made by the Department of Chemistry and thanked to Prof. Awasthi and Prof. Mauya for their support and contribution.

ANY OTHER ACTIVITIES:

1. Dr. Pankaj Kandwal interacted with the students of the Govt. Upper Primary School, Dhanchada, Uttarakhand under Rashtriya Aaviskar Abhiyan on 20th May 2023.
2. Dr. Pankaj Kandwal delivered invited lectures in Refresher Course in Chemistry conducted by North Eastern Hill University, Shillong during 31/10/2022 to 15/11/2022.

DEPARTMENT OF HUMANITIES & SOCIAL SCIENCES

With a persistent commitment towards value-oriented education, the Department of Humanities and Social Sciences came into existence in June 2019. Striving to reach the higher goals of global standards as a part of department of Sciences and Humanities since 2010, the department facilitates multifarious and valued added learning to B. Tech, M. Tech. and PhD students. Catering to the academic and extra-curricular needs of the students, the department offers various courses in Communication English, Social Sciences, Literature and Cinema, Screenwriting and Creative Writing which strengthen the professional and personal growth of students. The department strives to create learning environment that is inclusive and diverse and promotes better learning experience and outcome. The department conducts workshops, seminars, conferences to give extra edge to professional growth of students from time to time. It also organizes expert lectures inviting eminent experts from IITs, NITs and Central Universities.

Vision: to achieve humanistic development of techno-savvy students into the socially responsible individuals in the service of community and nation at large.

MISSION

1. Facilitating students with communicative excellence and life skills and prepare them to achieve global competence.
2. Igniting young minds to build critical thinking and creative perception towards their social surroundings.
3. Promulgating social values and ethical behavior and to contribute towards the sustainable development of industry and society.
4. Fostering inter-disciplinary research in the discipline of humanities and social sciences, contributing towards the growth of community and nation at large.

ACADEMIC STAFF:

S. No.	Faculty Name	Designation	Areas of Specialization
1	Dr. Renu Bhadola Dangwal	Head & Assistant Professor	Postcolonial Studies, Environmental Studies, Cultural Studies, Children's Literature, Indian English Writing, ELT & Communication
2.	Dr. Minakshi Rana	Assistant Professor	Social Sciences, Organizational Behaviour, Organizational Psychology and Cultural Studies.

3.	Dr. Siddhartha Pratapa	Temporary Faculty	Communication skills, Linguistics
4.	Dr. Rashmi Raina	Temporary Faculty	Sociology of Planning and Development, Social Networking Sites

NON-TEACHING STAFF:

S. No.	Name	Designation
1.	Ms. Neha Raturi	Technical Assistant

2.	Mr. Anil Bhatt	Technician
3.	Mr. Manish Chamoli	Data Entry Operator

PH.D. STUDENTS:

S. No.	Name of the Scholar	Area of Research	Status
1.	Joe Philip	Subaltern Studies	Awarded
2.	Satyanarayan Tiwari	Postcolonial Studies	Ongoing
3.	Dona Soman	Posthumanism & Children Literature	Ongoing
4.	Manvi Sharma	Popular Culture and Climate Change	Ongoing
5.	Sonalika Chaturvedi	Eco-disaster Narrative Studies	Ongoing
6.	Samir Gorai	Disability Studies	Ongoing

RESEARCH AND DEVELOPMENT INFRASTRUCTURE/LABORATORIES:

The department has well equipped Communication Skill Laboratory. It is a platform which offers an assortment of tools to sharpen basic LSRW skills of students. It caters to students' unique needs by which each student feels confident, secure and appropriately challenged. The lab is furnished with 30 computers and audio-visual technical tools. Facilitators locate and incorporate a variety of resources to accommodate students via audio-visual, tactile and kinesthetic methods. The English language communication skills laboratory course is a great booster for the students. Some important features of laboratory are:

- Fully interactive lab with teacher to learner, learner to teacher and learner to learner interactions.
- It helps students to learn pronunciation, stress accent, intonation, rhythm, and all other nuances of the phonetics of English language.

- The learners have freedom to record and playback their own voice recordings, assess them and store it and then re-play it whenever needed. They can perform personal assessments
- Introduction of earphone/headphone/microphone provides a student his/her privacy that creates a better environment for their speaking practice without hesitation.
- The students can also do a periodical self-evaluation to measure the progress as well as evaluate his/her language with that of the expert.

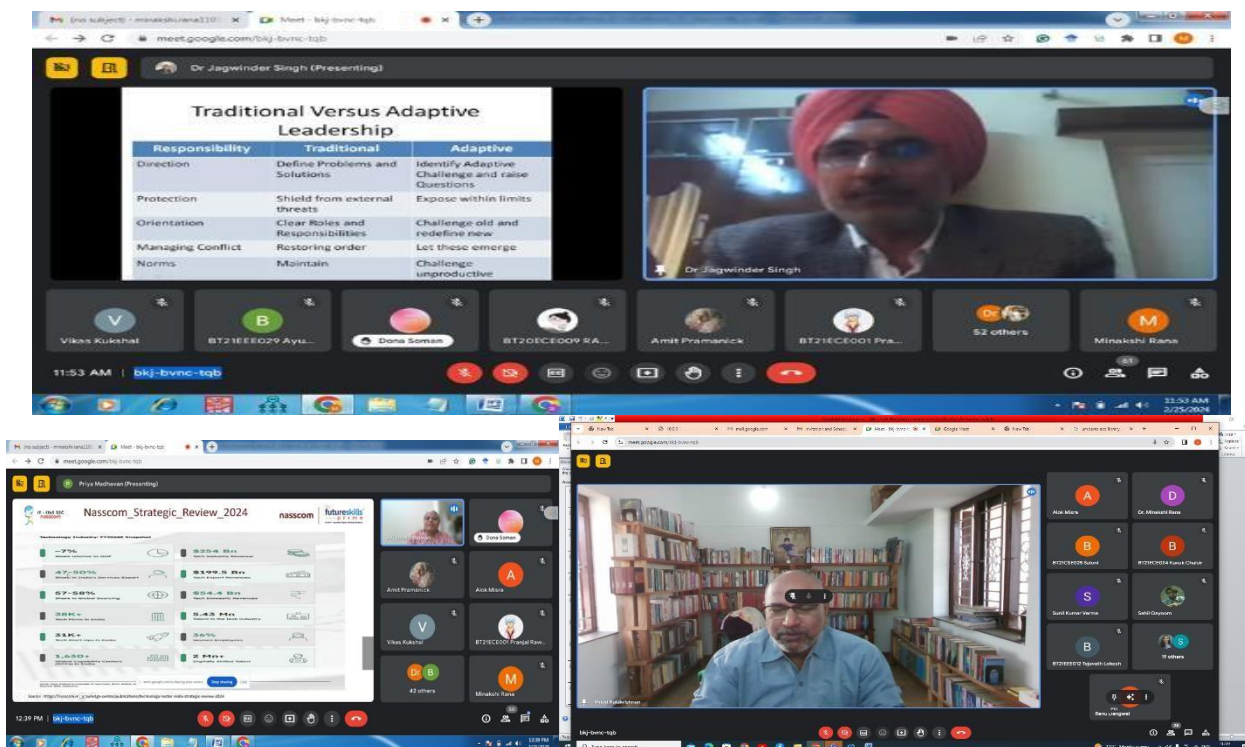


DETAILS OF CONFERENCES/STC/FDPS ETC ORGANIZED:

- **A Five day Short-Term Course (STC) on “Employability: Developing Professional Skills and Personality Enrichment for Brighter Future”** was held during 23rd-27th February, 2024 by Dept. of Humanities & Social sciences in collaboration with Career and placement cell (C2P) at NIT Uttarakhand. In a bid to foster continuous learning and skill enhancement, a Five day Short-Term Course titled “Employability: Developing Professional Skills and Personality Enrichment for Brighter Future” was held during 23rd-27th February, 2024 by Dept. of Humanities & Social sciences in collaboration with Career and placement cell (C2P) at NIT Uttarakhand. The program provided a valued platform for learning crucial employability skills which is the demand of the present market scenario. The inaugural ceremony of the program was held on 23rd February at Conference Hall, Administrative Block, ITI Campus. The Chief Guest of the programme Prof. Lalit Kumar Awasthi, Director, NIT Uttarakhand addressed the gathering in Inaugural Ceremony by saying that employability skills are crucial for career

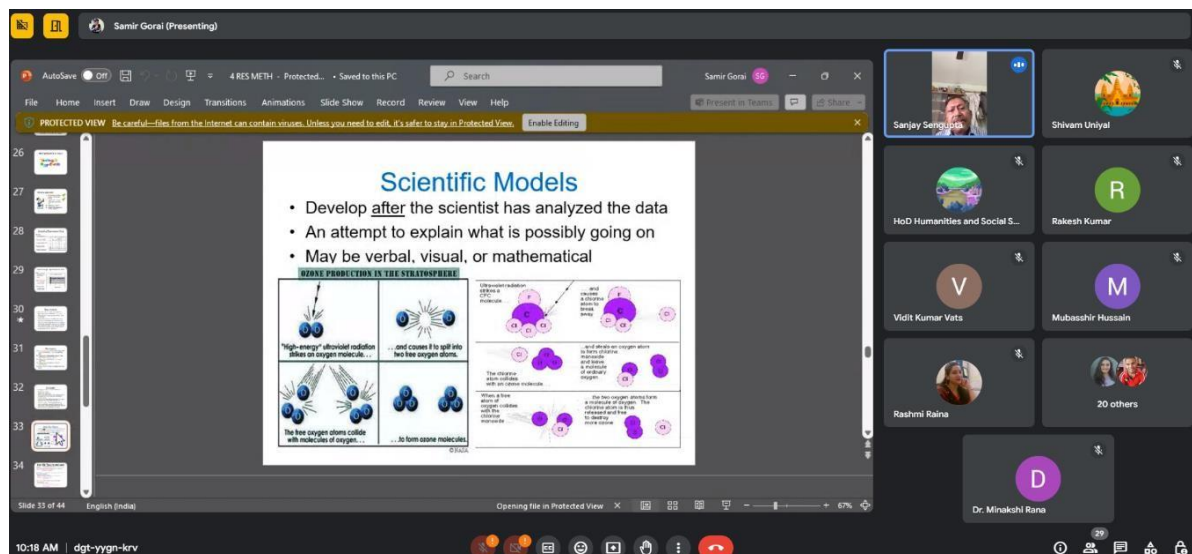
success and developing these skills will enhance the ability of the students to thrive in various professional settings. Prof. P.C Ryhal, Dept. of HSS, NIT Hamirpur and Prof. T Ravichandran, Dept. of HSS, IIT Kanpur were Guest of Honour of this programme. Dr. Hariharan Muthusamy, Professor In-charge, C2P (Convener) and Dr. Renu Bhadola Dangwal, Assist. Prof., Dept. of HSS, NIT-UK were the convener of the Short-Term Course. The STC program was coordinated by Dr. Minakshi Rana, Assist. Prof., Dept. of HSS, NIT-UK, Dr. Vikas Kukshal, Coordinator, C2P, NIT-UK and Dr. Ravinder Kumar, Assist. Prof., Dept. of EED, NIT-UK. The resource persons for the course were from IIT's, NIT's, Universities, reputed educational, research organizations and from industry. All the students who were from UG/ PG and diploma student/ working professional/ industry people; Students pursuing Engineering; Research students; Teaching professionals & faculties were allowed to register for the course.





- **An Online Expert lecture by Prof. Sanjay Sen Gupta on “Research Methodology “was organized in the Department of Humanities and Social Sciences on 12 March 2024.**

The Department of Humanities and Social Sciences of NIT, UK facilitated an Expert Lecture on Research Methodology for M. Tech. students and research scholars on 12 March 2024. The lecture was delivered by Dr Sanjay Sen Gupta of National Institute for Science Communication & Information Resources, CSIR. Dr Sen Gupta is an eminent electroanalytical chemist and science communicator with nearly thirty-five years of experience as an academican, researcher, scientist, and editor of the reputed Journal of Scientific & Industrial Research, CSIR. His excellent and comprehensive lecture covered the topics of synopsis and thesis writing, hypothesis formation and verification, empirical and inferential approaches to scientific inquiry, scientific method, quantitative and qualitative research, and European scientific revolution in the work of Copernicus, Brahe, Kepler, Galileo, Newton, and Descartes in the fifteenth, sixteenth, and seventeenth centuries.



HIGHLIGHTS/ACHIEVEMENTS:

Procurement: Purchase of 22 Tables and Chairs and Headphones was completed for the refurbishment of the language lab during FY 2023 -2024.

Paper Publications:

1. Sonalika Chaturvedi and Renu Bhadola Dangwal published a paper entitled "Dharmo Rakshati Rakshitah: Ethical Imperatives for Indian Political Society." In the *Journal of Dharma*. Vol.48. No.3, 2023.pp. 299-314. (SCOPUS, Web of Sciences ESCI, UGC Care list II)
2. Sonalika Chaturvedi and Renu Bhadola Dangwal published a paper entitled "Imagining the Great Bengal Famine: Unveiling the Hunger Paradox in Retrospection" in the journal *Agathos: An International Review of the Humanities and Social Sciences*. Volume 14, Issue 2/2023 on May 6, 2024. (Web of Sciences ESCI, UGC Care list II)
3. Manvi Sharma and Ajay K. Chaubey published a paper entitled "The Great Indian Water Crisis: Sarnath Banerjee's Graphic Narrative All Quiet in Vikaspuri as an Acerbic Attestation of the Urban Water Crisis in India." The *IUP Journal of English Studies*, vol.18, no. 1, 2023, SCOPUS.
4. Manvi Sharma and Ajay K. Chaubey published a paper entitled Local Water Bodies and the Threat of Slow Violence in Subhash Vyam's Graphic Narrative Water." *South Asian Popular Culture*, vol. 22, no. 1, 2024, SCOPUS.
5. Dr. Minakshi Rana published a book Entitled "Insights into Job Related Strain: Identifying Organizational and Psychological Factors for Predictive Analysis". Publisher: IIP Iterative International Publishers in February 2024.
6. Dr. Minakshi Rana published a paper entitled "How technological innovation and electricity consumption affect environmental

7. quality? A road map towards achieving environmental sustainability.” In the journal *Environmental Science and Pollution Research*, 1-18. (2023)
8. Dr. Minakshi Rana published a paper entitled “Virtual Teams, Academic Resilience and Mental Wellbeing: A Study of International Students in Virtual Teams in India.” FIIB, Business Review, (2023).
9. Satyanarayan Tiwari and Dr. Ajay Kumar Chaubey published a paper entitled "Trivialization of India's metropolitan: An orientalist reading of Jeet Thayil's Narcopolis" in *Humanities and Social Science Studies Journal* (Peer-Reviewed UGC-CARE journal), vol. 12, issue 1.

Paper Presented

1. Samir Gorai and Renu Bhadola Dangwal presented paper entitled “Sense of the Sacred and Sustainability: Eco-spiritual Reading of Literary and Cinematic Responses” at Two-Day ICSSR Sponsored National Seminar On “Revamping Indian Tradition and Culture Through NEP 2020” organized by the Department of Humanities & Social Sciences, IIT Roorkee, India, During August 18-19, 2023.
2. Satyanarayan Tiwari presented a research paper titled "From Misery to Misery: An Exploration of Immigrants Experience in Sunjeev Sahota's The Year of the Runways", in an international conference on "Girmitiya Descendant: Past, Present, and Future", organised by Centre for India Diaspora and Culture Studies, in collaboration with Department of English, Lucknow University during 30 Feb to 1 January 2024.

DETAILS OF EXPERT LECTURES DELIVERED/ SESSION CHAIRED:

1. Dr Renu Bhadola Dangwal contributed as Session Chair on 18 August 2023 in National Seminar Revamping Indian Tradition and Culture Through NEP 2020: Multilingual, Multicultural & Multidisciplinary Modes of Education on 18th - 19th August 2023 at IIT Roorkee.
2. Dr Renu Bhadola Dangwal contributed as Session Chair on 21 September 2023 in Two-Day International Conference on Gender Studies organized by the department of Humanities, Social Sciences and Management, NIT Karnataka, Surathkal from 21-22 September 2023.
3. Dr Renu Bhadola Dangwal delivered Expert Lecture on “Sexual Harassment of Women at Workplace (Act 2013).” on 24.4.2023 in SSB, Srinagr Garhwal.
4. Dr Renu Bhadola Dangwal delivered Expert Lecture on “Social Construction of Gender” 25.4.2023 in SSB, Srinagr Garhwal.

5. Dr. Minakshi Rana delivered an Expert Lecture on “Mastering Stress: The power of life skills for mental health” on 16-03-2024 at Govt. ITI college Bani, Himachal Pradesh.
6. Dr. Minakshi Rana chaired a session for Paper presentation on 30th May 2024, as part of the three-day PAN NIT HSS Research Conclave on “Humanities at

Crossroads: The Convergence of Language, Literature and Technology” conducted by the Department of Humanities and Social Sciences, National Institute of Technology, Warangal in collaboration with 26 other NITs from 28th May to 30th May, 2024.

RESEARCH & CONSULTANCY SECTION

06.01 PUBLICATIONS IN NATIONAL/INTERNATIONAL JOURNALS

1. Pokhriyal, M., Rakesh, P.K., Rangappa, S.M., Siengchin, S. Effect of alkali treatment on novel natural fiber extracted from Himalayacalamus falconeri culms for polymer composite applications (2023) .
2. Bijalwan, V., Semwal, V.B., Singh, G., Mandal, T.K. HDL-PSR: Modelling Spatio-Temporal Features Using Hybrid Deep Learning Approach for Post-Stroke Rehabilitation (2023)
3. Chaurasia, S., Kumar, K., Kumar, N. MOCRAW: A Meta-heuristic Optimized Cluster head selection based Routing Algorithm for WSNs (2023).
4. Chaudhary, M., Goyal, N., Benslimane, A., Awasthi, L.K., Alwadain, A., Singh, A. Underwater Wireless Sensor Networks: Enabling Technologies for Node Deployment and Data Collection Challenges (2023) .
5. Srivastava, S., Vishnoi, M., Gangadhar, M.T., Kukshal, V. An insight on Powder Mixed Electric Discharge Machining: A state of the art review (2023) .
6. Latha, K.B.S., Reddy, M.G., Tripathi, D., Bég, O.A., Kuharat, S., Ahmad, H., Ozsahin, D.U., Askar, S. Computation of stagnation coating flow of electro-conductive ternary Williamson hybrid GO - AU - Co 30 4/ EO nanofluid with a Cattaneo–Christov heat flux model and magnetic induction (2023) .
7. Munawar, S., Saleem, N., Tripathi, D. Cilia and electroosmosis induced double diffusive transport of hybrid nanofluids through microchannel and entropy analysis (2023) .
8. Singh, M.K., Pal, S., Prajapati, Y.K. Design and Analysis of an SPR Sensor Based on Antimonene and Platinum for the Detection of Formalin (2023) .
9. Saini, P., Kumar, K., Kashid, S., Saini, A., Negi, A. Video summarization using deep learning techniques: a detailed analysis and investigation (2023) .

10. Jayavel, P., Upreti, H., Tripathi, D., Pandey, A.K. Irreversibility and heat transfer analysis in MHD Darcy-Forchheimer flow of Casson hybrid nanofluid flow through cone and wedge (2023) .
11. Prakash, J., Tripathi, D., Bég, O.A. Computation of EMHD ternary hybrid non-Newtonian nanofluid over a wedge embedded in a Darcy-Forchheimer porous medium with zeta potential and wall suction/injection effects (2023) .
12. Nayyar, A., Sharma, D., Soni, S.L., Gautam, V., Kumar, C., Augustine, M. Study of performance and emissions of a stationary DI variable compression ratio CI engine fueled with n-butanol/diesel blends using Taguchi technique: analytical and experimental analysis (2023) .
13. Kaur, G., Anthwal, A., Kandwal, P., Sud, D. Mechanochemical synthesis and theoretical investigations of Fe (II) based MOF containing 4,4' -bipyridine with ordered intercalated p-aminobenzoic acid: Application as fluoroprobe for detection of carbonyl group (2023) .
14. Kumar, R., Rakesh, P.K., Sreehari, D. INVESTIGATION ON PHYSICO-CHEMICAL, MECHANICAL AND THERMAL PROPERTIES OF EXTRACTED NOVEL PINUS ROXBURGHII FIBER (2023) .
15. Agrawal, A.P., Kumar, V., Kumar, J., Paramasivam, P., Dhanasekaran, S., Prasad, L. An investigation of combined effect of infill pattern, density, and layer thickness on mechanical properties of 3D printed ABS by fused filament fabrication (2023) .
16. Laiju, A.R., Gandhimathi, R., Nidheesh, P.V. Removal of pharmaceutical and personal care products in landfill leachate treatment process (2023) .
17. Jhalani, A., Sharma, D., Soni, S.L., Sharma, P.K. Effects of process parameters on performance and emissions of a water-emulsified diesel-fueled compression ignition engine (2023) .
18. Bijlwan, P.P., Prasad, L., Sharma, A., Kumar, S. Taguchi optimized sliding wear behavior and hardness of novel Grewia optiva/Basalt fiber reinforced hybrid polyester composites (2023) .
19. Bhandari, P., Prajapati, Y.K., Uniyal, A. Influence of three dimensionality effects on thermal hydraulic performance for stepped micro pin fin heat sink (2023) .
20. Kumar, R., Rakesh, P.K., Sreehari, D., Kumar, D., Naik, T.P. Experimental investigations on material properties of alkali retted Pinus Roxburghii Fiber (2023) .
21. Bhatt, S., Joshi, D., Rakesh, P.K., Godiyal, A.K. Advances in additive manufacturing processes and their use for the fabrication of lower limb prosthetic devices (2023) .
22. Ram, D., Bhandari, D.S., Sharma, K., Tripathi, D. Progression of blood-borne viruses through bloodstream: A comparative mathematical study (2023) .

23. Bhandari, D.S., Tripathi, D. Alteration in membrane-based pumping flow with rheological behaviour: A mathematical model (2023) .
24. Varshney, A., Mishra, N.K., Das, R. Enhancement of collection efficiency for capturing submicron particles emitted from biomass burning: a novel design of semi-circular corrugated plate electrostatic precipitator (2023) .
25. Kumar, R., Pal, S., Verma, A., Prajapati, Y.K. Enhanced NO₂ Gas Sensing Using Surface Plasmon Resonance Sensor Based on MXene and Black Phosphorus (2023).
26. Prasad, L., Kapri, P., Patel, R.V., Yadav, A., Winczek, J. Physical and Mechanical Behavior of Ramie and Glass Fiber Reinforced Epoxy Resin-Based Hybrid Composites (2023)
27. Srivastava, R., Pal, S., Prajapati, Y.K. MXene-Assisted D-Shaped Photonic Crystal Fiber Probe with High Sensitivity for Detection of Tuberculosis (2023) .
28. Chaurasia, S., Kumar, K. MOORP: Metaheuristic Based Optimized Opportunistic Routing Protocol for Wireless Sensor Network (2023) .
29. Singh, V., Kala, S., Rom, T., Paul, A.K., Pandey, R. A multi-cation responsive Ni(II)-supramolecular metallogel mimics a molecular keypad lock via reversible fluorescence switching (2023) .
30. Painuly, A., Mishra, N.K., Zainith, P., Das, R. Numerical analysis of a helically corrugated tube using a novel combination of W/EG-based non-Newtonian hybrid nanofluid (2023) .
31. Noreen, S., Fatima, K., Tripathi, D. Electroosmosis-driven heat transfer in Jeffrey fluid flow through tapered porous channel (2023) .
32. Ram, D., Bhandari, D.S., Tripathi, D., Sharma, K. Motion of bacteria and CaOx particles via urine flow modulated by the electro-osmosis (2023) .
33. Tripathi, D., Bhandari, D.S., Bég, O.A. A critical review of micro-scale pumping based on insect-inspired membrane kinematics (2023) .
34. Kumar, J., Singh, Y., Rakesh, P.K., Singh, I., Davim, J.P. The Impact of Hole Diameter on the Molded and Drilled Holes in Jute-Fiber-Reinforced Epoxy Composites (2023) .
35. Sharma, S., Khan, K., Soni, M., Ahuja, U., Soni, A., Sahariya, J. Investigation of electronic and optical properties of alkali atom doped CuInSe₂ using density functional theory (2023) .
36. Rani, A., Parashar, K., Meena, R., Sharma, S.K., Tiwari, K.K., Ajaykumar, V., Mondal, N.C. Hydrochemical characteristics and potential health risks of nitrate, fluoride, and uranium in Kota district, Rajasthan, India (2023) .
37. Balaji, R., Prakash, J., Tripathi, D., Anwar Bég, O. Heat transfer and hydromagnetic electroosmotic Von Kármán swirling flow from a rotating porous disc to a permeable medium with viscous heating and Joule dissipation (2023) .

38. Bhandari, D.S., Tripathi, D., Narla, V.K. Transient membrane kinematic model for viscoplastic fluids: periodic contraction in the microchannel (2023) .
39. Bhadwal, A.S., Kumar, K., Kumar, N. GenSMILES: An enhanced validity conscious representation for inverse design of molecules (2023) .
40. Aslam, F., Noreen, S., Lu, D.C., Tripathi, D. Regulation of thermo-electro-magneto dynamics in course of peristalsis (2023) .
41. Gnaneswara Reddy, M., Tripathi, D., Anwar Bé, O. Analysis of dissipative non-Newtonian magnetic polymer flow from a curved stretching surface with slip and radiative effects (2023) .
42. Kaur, P., Kumar, N., Singh, M. Biometric cryptosystems: a comprehensive survey (2023) .
43. Gangolu, S., Sarangi, S. Fuzzy-Based Fault Detection and Classification in Grid-Connected Floating PV System (2023) .
44. Khan, K., Sharma, K.N., Soni, A., Sahariya, J. First principle study of optical and electronic response of Ca-based novel chalcopyrite compounds (2023) .
45. Khatri, P., Kumar, P., Shakya, K.S., Kirlas, M.C., Tiwari, K.K. Understanding the intertwined nature of rising multiple risks in modern agriculture and food system (2023).
46. Prakash, J., Tripathi, D., Akkurt, N., Shedd, T. ENTROPY ANALYSIS OF HYBRID NANOFLUID FLOW OVER A ROTATING POROUS DISK: A MULTIVARIATE ANALYSIS (2023) .
47. Rawat, A.S., Deshmukh, M., Singh, M. QR Shares based Secret Sharing Scheme using DWT, Random Permutation and Arithmetic Modulo Operation for QR Secret (2023) .
48. Akram, J., Akbar, N.S., Tripathi, D.
49. Corrigendum to “Blood-based graphene oxide nanofluid flow through capillary in the presence of electromagnetic fields: A Sutterby fluid model” [Microvasc. Res. 132 (2020) 104062] (Microvascular Research (2020) 132, (S0026286220301229), (10.1016/j.mvr.2020.104062))(2023) .
50. Chaurasia, S., Kumar, K., Kumar, N. EEM-CRP: Energy-Efficient Meta-Heuristic Cluster-Based Routing Protocol for WSNs (2023) .
51. Vaidya, H., Prasad, K.V., Tripathi, D., Choudhari, R., Hanumantha, Ahmad, H. Viscoplastic Hybrid Nanofluids Flow Through Vertical Stenosed Artery (2023) .
52. Kumar, R., Agarwal, S., Pal, S., Prajapati, Y.K., Saini, J.P. Enhanced refractive index sensing using a surface plasmon resonance sensor with heterostructure (2023) .
53. Verma, S., Das, R., Mishra, N.K. Concept of integrating geothermal energy for enhancing the performance of solar still (2023) .

54. Deshmukh, M., Rawat, A.S. Lightweight symmetric key encryption for text using XOR operation and permutation matrix (2023) .
55. Kumar, R., Pal, S., Prajapati, Y.K. MXene-Mediated Long-Range Surface Plasmon Resonance (LRSPR) Sensor at Near-Infrared Wavelength (2023) .
56. Tiwari, R., Chithaluru, P., Kumar, K., Kumar, M., Stephan, T. A cooperation federated forwarder selection technique for maximizing network lifetime in wireless sensor network (2023) .
57. Sharma, H., Singh, I., Misra, J.P. An initial investigation to explore the feasibility of fruit waste fillers for developing sustainable thermoplastic composites (2023) .
58. Agarwal, N., Sikka, G., Awasthi, L.K. WGSDMM+GA: A genetic algorithm-based service clustering methodology assimilating dirichlet multinomial mixture model with word embedding (2023) .
59. Kaur, P., Kumar, N., Singh, M. SURFBCS: speeded up robust features based fuzzy vault scheme in biometric cryptosystem (2023) .
60. Kumar, R., Rakesh, P.K., Sreehari, D. Effect of Potassium Permanganate treatment on physico-Chemical and mechanical properties of extracted Pine Needle Fiber (2023) .
61. Kaloni, S., Tiwari, P., Singh, G. User-defined high impulsive frequency acquisition model for mechanical damage identification (2023) .
62. Singh, S.A systematic review on security aware real-time task scheduling (2023) .
63. Gangolu, S., Sarangi, S.A new pilot relaying technique for the STATCOM compensated transmission line (2023) .
64. Kashid, S., Awasthi, L.K., Kumar, K., Saini, P. NS4: a Novel Security approach for extracted video keyframes using Secret Sharing Scheme (2023) .
65. Bijlwan, P.P., Prasad, L., Sharma, A., Gupta, M.K., Kumar, V. Experimental study on the mechanical and hygroscopic properties of alkaline-treated Grewia optiva/basalt fiber-reinforced polymer composites (2023) .
66. Kumar, D., Mandal, A. Response surface method-based optimisation of advanced mechanochemical approach for bead minimisation in bamboo fiber extraction, and improving hydrophobicity via diisopropanolamine treatment (2023) .
67. Rawat, A.S., Deshmukh, M., Singh, M. Meaningful Shares based Single Secret Sharing Scheme using Chinese Remainder Theorem and XOR Operation (2023) .
68. Vibhu, V., Mittal, S., Kumar, V. Machine Learning-based model for Single Event Upset Current Prediction in 14nm FinFETs (2023) .
69. Gupta, R., Bhatnagar, A.S., Singh, G. A Weighted Deep Ensemble for Indian Sign Language Recognition (2023) .

70. Adgale, T., Zainith, P., Mishra, N.K., Sharma, A. Heat Transfer and Flow Analysis in a Circular Tube Equipped with Triangular Helical Strip Inserts Under Turbulent Flow Conditions for the Application of Boiler (2023) .
71. Kumar, K., Mishra, A., Dahiya, S., Kumar, A. A Technique for Human Upper Body Parts Movement Tracking (2023) .
72. Kumar, B., Sahoo, J.P. Lining pressure for circular tunnels in two layered clay with anisotropic undrained shear strength (2023) .
73. Kumar, V., Pal, S. A Tantalum Disulfide (TaS₂) Mediated Long-Range Surface Plasmon Resonance Refractive Index Sensor with Improved Performance (2023) .
74. Tiwari, K.K., Raghav, R., Pandey, R. Recent advancements in fluoride impact on human health: A critical review (2023) .
75. Singh, V., Yadav, V.S., Barnawi, A.B., Khan Bhutto, J., Verma, R., Singh, P., Kumar, N. Comparison of different designs of solar air heater with the simple solar heater of having reflecting mirrors (2023) .
76. Kumar, D., Biswas, A., Mandal, A., Kumar, R. Improvement of Welding Performance on Mild Steel by a Hybrid TIG-MAG Welding Technique (2023) .
77. Pandya, M., Ansu, A.K., Sharma, R.K., Tripathi, D., Tyagi, V.V., Sari, A. Investigation on Thermal Energy Storage Properties of Polyethylene Glycol with Hybrid Nanoparticles of Al₂O₃ and CuO for Solar Thermal Energy Storage (2023) .
78. Srivastava, A., Mishra, G., Singh, K.R.B., Singh, J., Pandey, R., Pandey, M.D. Synthesis, characterization, and electrocatalytic behaviour of hydrothermally grown nanostructured La₂O₃ and La₂O₃/K-complex (2023) .
79. Sharma, H., Singh, V., Tamrakar, A., Nigam, K.K., Pandey, M.D., Tiwari, K.K., Pandey, R. Development of highly selective fluorescent ferrocenyl-iminopyridine chemosensor for biologically relevant Fe³⁺ (2023) .
80. Negi, A., Kumar, K. End-to-end residual learning-based deep neural network model deployment for human activity recognition (2023) .
81. Kumar, D., Kumar, A., Subudhi, S. Thermal Behavior of Magnetite Nanofluid under Magnetic Field: An Experimental Study and Development of Predictive Model to Predict Thermal Conductivity (2023) .
82. Pandey, S., Tadeipalli, S.K., Leite, V.J.S., Nigam, R., Bhusnur, S. Stability of 2-D Discrete Systems in the Presence of Saturation Function and Delays (2023) .
83. Reddy, M.G., Latha, K.B.S., Tripathi, D., Bég, O.A., Kuharat, S., Burby, M.L. Ternary cobalt ferrite (CoFe₂O₄)-silver (Ag)-titanium dioxide (TiO₂) hybrid nanofluid hydromagnetic nonlinear radiative-convective flow from a rotating disk with viscous dissipation, non-Darcy and non-Fourier effects: Swirl coating simulation (2023) .

84. Saini, H., Gangwar, S., Yadav, C.S., Khatri, M.S. Synthesis and Characterization of Cu-Ni Thin Films at Different pH Baths: A Comparative Study Using XRD, XPS and Corrosion Analysis (2023) .
85. Kumar, J., Singh, Y., Naik, T., Rana, R.S., Rakesh, P.K., Singh, I. Adhesive joining behaviour of banana/bagasse/epoxy composites with different joint designs (2023) .
86. Bansal, N., Sachdeva, S., Awasthi, L.K. Are NoSQL Databases Affected by Schema? (2023) .
87. Negi, A., Kumar, K., Saini, P. Object of Interest and Unsupervised Learning-based Framework for an Effective Video Summarization Using Deep Learning (2023) .
88. Kaur, P., Kumar, N. Enhanced Biometric Cryptosystem Using Ear & Iris Modality Based On Binary Robust Independent Elementary Feature (2023) .
89. Kanwar, S., Awasthi, L.K., Shrivastava, V. Efficient Random Forest Algorithm for Multi-objective Optimization in Software Defect Prediction (2023) .
90. Kaur, P., Kumar, N., Singh, M. Biometric-Based Key Handling Using Speeded Up Robust Features (2023) .
91. Kumar, D., Subudhi, S. Numerical investigation of twin fins of different materials on buoyancy-induced convection in magnetite nanofluid under magnetic field (2023) .
92. Kumar, B., Sahoo, J.P. Support Pressure for Stability of Horseshoe-Shaped Tunnels in Undrained Clay Using Lower-Bound Finite-Element Limit Analysis (2023) .
93. Kumhar, H.S., Kukshal, V. Inverse Kinematic Solution for 6-R Industrial Robot Manipulator Using Convolution Neural Network (2023) .
94. Kumar, K., Patange, K., Pete, P., Wankhade, M., Chatterjee, A., Kurhekar, M. Power and Energy-efficient VM scheduling in OpenStack Cloud Through Migration and Consolidation using Wake-on-LAN (2023) .
95. Kumar, N., Agarwal, P. An active clamped L-L type ZVS current-fed front-end DC-DC converter based solid state transformer in grid connected mode PV applications (2023).
96. Vats, V.K., Singh, D.B., Amin, D. Similarity solutions for cylindrical shock wave in a self-gravitating and rotating gas under the influence of monochromatic radiation and azimuthal or axial magnetic field by using Lie invariance method (2023) .
97. Kumar, B., Sahoo, J.P. Stability assessment of unlined tunnels with semicircular arch and straight sides in anisotropic clay (2023) .
98. Singh, H.N., Agrawal, S., Kuthe, A.M. Design of customized implants and 3D printing of symmetric and asymmetric cranial cavities (2023) .
99. Narayan, S., Shrimali, M.K., Bharti, S.D., Datta, T.K. Effects of aftershocks on the performance of steel building frames (2023) .

100. Yadav, D., Goyal, R., Yadav, V.S., Goyal, A., Oza, A.D., Negi, P. Interactive design and development of micro VT-SHED facility to determine refueling losses from two-wheeler fuel tanks (2023) .
101. Saini, H., Gangwar, S., Yadav, C.S., Khatri, M.S. Electrochemical Characterization and Corrosion Analysis of Cu–Ni Films Electrodeposited from Different pH Bath (2023) . Bisht, A., Pundir, Y.P., Pal, P.K. Performance analysis of nanosheet transistor with drain/source extension and high-k spacer optimizations for analog applications (2023).
102. Pundir, Y.P., Bisht, A., Saha, R., Pal, P.K. Effect of Process-Induced Variations on Analog Performance of Silicon based Nanosheet Transistor (2023) .
103. Kumar, K. R3N2 : a novel approach for review based custom star rating using recurrent neural network (2023) .
104. Sharma, H., Tamrakar, A., Maddeshiya, T., Shakya, P.R., Tiwari, K.K., Pandey, M.D., Pandey, R. A zinc (II) complex comprising an aminoethyl-nitropyridine-derived N,N,O-donor Schiff base ligand serves as an efficient ON–OFF probe for Cu(II) (2023) .
105. Kumar, D., Subudhi, S. Buoyancy induced convection in magnetite nanofluid filled in enclosure with thick fin under magnetic field produced by a magnetic source (2023) .
106. Kumar, B., Sahoo, J.P. Stability assessment of unlined real horseshoe-shaped tunnels in anisotropic and heterogeneous undrained clay (2023) .
107. Kumar, B., Joshi, A., Mer, K.K.S., Prasad, L., Kumar, I. Tensile and Fracture Toughness behavior of Centrifugally Cast Al/Al₂O₃ Functionally Graded Materials (2023) .
108. Singh, P., Deepak, D., Brar, G.S. Investigations on the effect of friction crush welding parameters in joining 6061 aluminium alloy to 304 stainless steel (2023) .
109. Gangolu, S., Sarangi, S. A new differential current circle diagram based technique for long transmission line protection (2023) .
110. Singh, D., Chandra, S., Pandey, R. Ultrasensitive fluorescence detection of nitro-explosives by dihydro-oxoisobenzofuranyl-phthalazinone obtained from the Cd(ii)-catalyzed cyclization of azinodimethyldyne-benzoic acid (2023) .
111. Sonker, A., Nayak, A.K., Goel, T., Patnaik, A. Multifunctional Antenna Design for Wireless Consumer Electronic Devices: A Soft-Computing Approach (2023) .
112. Bansal, N., Sachdeva, S., Awasthi, L.K. A workload-driven approach for automatic schema generation for document stores (2023) .
113. Thapliyal, R., Bose, S., Dwivedi, P. Modified Zeta Bidirectional Non-Isolated DC-DC Converter with Wide Voltage Gain for E-mobility (2023) .
114. Goswami, S., Kumar, A. A transformative deep learning framework for traffic modelling using sensors-based multi-resolution traffic data (2023) .

115. Kaur, P., Kumar, N. Biometric Cryptosystem with Deep Learning: A New Frontier in Security (2023) .
116. Garg, J., Singh, K., Kumar, L., Prasad, L. Development of submerged arc welding flux from rice straw ash (2023) .
117. Tiwari, P., Jain, K., Emani, P.K. Non-linear analysis of CFRP-wrapped steel box sections under biaxial load (2023) .
118. Nigam, R., Tadepalli, S.K. Criterion to Determine the Stability of Systems with Finite Wordlength and Delays Using Bessel-Legendre Inequalities (2023) .
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216. Singh, V.P. Multi-Approach Global Stability Assessment of Soil Nail Walls (2023) .
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219. Gaur, A., Khan, K., Soni, A., Dashora, A., Sahariya, J. First Principles-Based Optoelectronic Investigation of B-Doped CuAlS₂ Flexible Thin Film Solar Cells (2023) .
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221. Singh, S., Pal, S. SDTS: Security Driven Task Scheduling Algorithm for Real-Time Applications Using Fog Computing (2023) .

06.02 DETAILS OF PATENTS (NATIONAL/INTERNATIONAL)

S. No.	Title	Application Number	Date of Filing/Publication/Award	National/International	Name of Inventors
1	Highly-Directional Compact Semicircular Angular-Phased Antenna Array in 9.35-42.89 GHz	01811035222 A (Granted – 430540)	2023	National	Amalendu Patnaik, Tushar Goel
2	Battery Operated Air Cooler	378844-001	2023	National	Dr. Nishant Kumar, Dr. Lalta Prasad , Dr. Virendra kumar, Dr. Surendra Kumar Yadav
3	Compact Vapor Sorption Analyzer	379396-001	2023	National	Dr. Nishant Kumar, Dr. Lalta Prasad , Dr. Virendra kumar, Dr. Surendra Kumar Yadav
4	Touch and clickwheel Controlled Thermostat for Floor Heating System	6262632	2023	National	Dr. Nishant Kumar, Dr. Lalta Prasad , Dr. Virendra kumar, Dr. Surendra Kumar Yadav, Mahesh Yadav, Arund Kumar Singh ,

					Kanchhi Lal, Prem Charles Immanuel
5	ray for Electronic Components	390343-001 (Design Patent)	024	National	Iva Kumar Tadepalli
6	ELF-REPETITIVE BROADBAND SLOT ANTENNA	377614-002 (Design)	023	National	ushar Goel , Satendra Pathak, Pankaj Kumar Pal ,
7	Industrial Design of WIDEBAND UNIDIRECTIONAL ANTIPODAL radiating structure	377614-003 (Design)	023	National	ushar Goel , Avinash Bhatt, Pankaj Kumar Pal
8	Industrial Design of WIND-MILL LIKE SHAPED ANTIPODAL BROADBAND	377614-004 (Design)	023	National	ushar Goel , Mahesh Kumar Aghwariya, Pankaj Kumar Pal ,
9	OG-PERIODIC ANTIPODAL ANTENNA/14-03	377614-001 (Design)	023	National	ushar Goel , Arvind Bisht, Pankaj Kumar Pal ,
10	Vehicle wheels Speed Synchronizing assembly	202311046442	023	National	Vinod singh Yadav, Nishant Kumar, Aditya Pratap Singh
11	Digital Air Pollution Detecting Device	396221-001 (Design Certificate)	023	National	Dr. Amit Kumar Sharma, Rakesh Kumar, Prof. Sunil Kumar, Dr. Hitesh Sharma , Danish Mahajan
12	INTELLIGENTLY HIDING PERSONAL APPLICATION USER INTERFACE ELEMENTS	202311053513	023	National	Prof. Lalit K Awasthi, Dr. Rajeev Kumar, Dr Samayveer Singh, Dr Aruna Malik, Dr Saurabh Agarwal, Dr Tushar Bhardwaj, Dr Abha Devi
13	Spiral Air Distribution system in Updraft Gasifier	202341039958A	023	National	Prabhu Paramasivam, Nishant Kumar Singh, Virendra Kumar, Rajesh Kumar Verma, Lalita Prasad
14	Novel Fibre Reinforced Biodegradable Composite and Method of Preparing Same	531351 (Granted)	2023	National	Pawan Kumar Rakesh, Mayank Pokhriyal, Rajesh Kumar, Shaurya Bhatt, Vivek Bhuguna

15	novel biodegradable Laminate composite and preparation method thereof	202311060749	2023	National	Pawan Kumar Rakesh, Rajesh Kumar, Dungali Shreehari, Garima Raghav
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06.03 FUNDED SPONSORED RESEARCH PROJECTS

S. No.	Title of the R&D Project	Funding Agency	Name of PI/Co-PI	Sanctioned Amount Rs. (in Lacs)	Status
1	Development of empirical model for fundamental natural period of buildings constructed in hilly terrains	SERB DST	Dr. Smita Kaloni Dr. Shashank Bhatra (Co-PI)	40.8	Ongoing
2	Development of ultrahigh sub micron level measurement facility for coefficient of thermal expansion for dimensionally stable composite structures	Indian Space Research Organisation (ISRO)	Dr. Amar Patnaik, MNIT Jaipur Dr. Vikas Kukshal (Co-PI) (Collaboration with NITUK and MNIT Jaipur)	20	Ongoing
3	VLSI Design and Implementation of Imagined Speech based Neuroprosthesis: An application in Healthcare System	MEITY	Dr. Hariharan Muthusamy Dr. Vivek Kumar, Dr. Nitanshu Chauhan, Dr. Himesh Kumar (Co-PI)	84.7	Ongoing
4	Structural, Electronic and Momentum Density Investigations of Novel Materials Applicable in Energy Conversion and Storage	CSIR, New Delhi	Dr. Jagrati Sahariya	22	Ongoing
5	Prototype development of a non-invasive plasmonic fiber sensor using nanomaterials for	CRG, DST-SERB	Dr. Sarika Pal Prof. Lalit K. Awasthi, and Dr. Bela Goel AIIMS Rishikesh (Co-PI)	24.94	Ongoing

	detection of cortisol salivary biomarker				
6	A Systematic Design of Robust Memory Cell Using Ferroelectric FET (FeFET) for AI Hardware Accelerator	SERBCRG	Prof. Anand Bulusu Dr. Nitanshu Chauhan (Co-PI) (Collaboration with NITUK and MNIT Jaipur)	42	Ongoing
7	Design and Performance Investigation of Low Power III-V Negative Capacitance for Sensing Applications	CSIR, New Delhi	Dr. Navjeet Bagga Dr. Nitanshu Chauhan (Co-PI)	25	Ongoing
8	A novel power on pilot IC for ultra-low power wireless IoT devices	MeiTY	Dr. Nitanshu Chauhan Dr. Sarita Yadav, Dr. Vivek Kumar, Dr. Hariharan Muthusamy (Co-PI) (Collaboration with NITUK, IIT Roorkee, NIT Delhi, IIIT Bangalore, and NIT Goa)	411.44	Ongoing
9	Development and characterization of high-temperature wear and corrosion resistance high entropy alloy (HEA) for airborne parts and turbine engine blade.	Scheme for Promotion of Academic and Research Collaboration	Dr. Amar Patnaik, MNIT Jaipur Dr. Vikas Kukshal (Co-PI) (Collaboration with NITUK and MNIT Jaipur)	47.81	Ongoing
10	Mathematical Modelling and Optimization of Friction Crush Welding Process Parameters	MATRICES (SERB)	Dr. Gurinder Singh Brar	6,60	Ongoing
11	Computational Modelling and Validation for Directly transmitted Viral Infection Spread:	MATRICES (SERB)	Dr. Dharmendra Tripathi	6.6	Ongoing

	Pathogenesis and Blood Flow Dynamics				
12	Design and development of Grewia optiva/ Basalt fiber based polymer composite for the application of sustainable structure in land slide prone areas of Uttarakhand	SERB, DST	Dr. Lalta Prasad (PI) Dr. Niraj Kumar Mishra (Co-PI)	24	Ongoing
13	Extended Finite Element Method for Semipermeable Nonlinear Fracture Models in Smart Materials: Mathematical Analysis and Simulation	CRG-SERB	Dr Kuldeep Sharma	20	Ongoing

06.04 DETAILS OF CONSULTANCY PROJECTS

S. No.	Consultancy Project Given by	Name of Project Investigator	Co-PI	Consultancy Amount (₹)	Status
1.	Trap Cage Design	Dr. Vinod Singh Yadav	Dr. D Sreehari	20060	Completed
2.	Vehicle Design	Dr. Vinod Singh Yadav	Dr. Vikas Kukshal	11800	Completed
3.	Testing of Cement	Dr. Shashank Bhatra	Dr. Muskan Mayank	5900	Completed
4.	Consultancy Charges for Vetting of structural Drawing for tension fabric	Dr. Shashi Narayan		23,600	Completed
5.	Vetting of Structural Design and Drawing of school project at various sites Part-II	Dr. Shashi Narayan	Dr. Amardeep	4,13,000	Completed
6.	Vetting of Structural Drawing for budget hotel-Meerut, Uttar Pradesh	Dr. Shashi Narayan		₹1,18,000	Completed

7.	Testing of Structural Drawing for nursing college at Jorhat, Assam	Dr. Shashi Narayan		₹23,600	Completed
8.	Testing of structural drawing for tensile cloth fabric	Dr. Shashi Narayan	Dr. Amardeep	₹23,600	Completed
9.	Density and bitumen content of the bituminous concrete	Dr. A. K. Anupam		₹59,000	Completed
10.	Testing of marshal stability parameters, Density & stripping value of the core samples	Dr. A. K. Anupam		₹70,800	Completed
11.	Third-party visit for medical college and hospital project of Bulandshahar, Atal residential school Muzzaffarnagar & Bulandshahar.	Dr. A. K. Anupam	Dr. Shashi Narayan Dr. Bibhash Kumar	₹1,41,600	Completed
12.	Third-party visit for design, engineering, procurement and construction on EPC basis for establishment of new medical college at Lakhimpur Khiri, U.P.	Dr. A. K. Anupam	-	₹1,18,000	Completed
13.	Uttarakhand Forest Department (DFO, Pauri)	Dr. Vinod Singh Yadav	Dr. Vikas Kukshal	11800	Completed
14.	Uttarakhand Forest Department (DFO, Pauri)	Dr. Vinod Singh Yadav	Dr. D. Sreehari	20060	Completed
15.	Engineer Mantra, Dehradun	Dr. Kranti Jain		₹ 47,200.00	Completed

06.05 MoU SIGNED

S. No.	Name of Organization	DD/MM/YYYY
1.	National Institute of Technical Teachers Training and Research Chandigarh	23-01-2023

2.	THDC Institute of Hydropower Engineering & Technology	27-01-2023
3.	National Institute of Technology, Hamirpur, Himanchal Pradesh	06-02-2023
4.	Government Hydro Engineering Collage Bilaspur Himachal Pradesh	20-02-2023
5.	Covalience India Pvt Ltd	22-02-2023
6.	Graphic Era University , Dehradun	23-03-2023
7.	Mahatma Gandhi Government Engineering College, Kotla (JEORI) Camp at JNGEC Sundernagar	01-07-2023
8.	Mody University of science and Technology, Rajasthan (MUST)	26-07-2023
9.	Govt. Institute of Electronics, Secunderabad	25-07-2023
10.	Advance Tech India Private Limited	10-08-2023
11.	DIT University, Dehradun	10-08-2023
12.	Aieze, Noida	10-08-2023
13.	Amity University , Noida	10-08-2023
14.	Punjab Engineering Collage, Chandigarh	19-09-2023
15.	Haridwar University, Uttarakhand (Formerly Roorkee College of Engineering)	10-10-2023
16.	Jaypee Institute of Information Technology, Noida	18-10-2023
17.	IILM University, Greater Noida	19-10-2023
18.	Indian Institute of Technology, Mandi (H.P)	07-11-2023
19.	C-DAC	23-11-2023
20.	Divyasampark IHUB Roorkee for Device materials and Technology Foundation	28-12-2023
21.	Bureau of Indian Standards	25-01-2024
22.	Malaviya National Institute of Technology, Jaipur (Project)	20-11-2023
23.	Women Institute of Technology, Suddhowala, Dehradun	27.02.2024
24.	Indian Institute of Technology, Madras Chennai	19.02.2024

25.	IT Academy of Engineering, Alandi, Pune	13.03.2024
26.	Hemvati Nandan Bahuguna Garhwal University (A Central University), Srinagar Garhwal	05.04.2024

06.06 DETAILS OF ACTIVITIES:

DETAILS OF CONFERENCES/STC/FDPs/ EXPERT LECTURES ETC ORGANIZED:

- Organized the national level innovation fest, Navikaranam 2023, during February 25-26, 2023
- In the event of World Intellectual Property (IP) Day celebration, the IPR Cell, NIT Uttarakhand has organized (02) Expert talks cum Interactive sessions through ONLINE mode on April 26, 2023.

Speakers - Shri Ravi Pandey, Research, Establishment Officer (Innovation and Incubation), SIDBI Innovation and Incubation Center, IIT Kanpur and Dr. Kuldeep Singh Nagla, Associate Professor, Dept. of Instrumentation and Control Engineering, Dr. B R Ambedkar NIT Jalandhar.
- Conducted programs for promotion of millet consumption in 2023 as per the guidelines from the ministry.
- Organized a 5-day workshop on “3D Printing Applications and its potential for entrepreneurship” during Sep 28, 2023 to Oct 02, 2023.
- Organized two expert lectures on “Product Design” by Dr Prashant Kumar during Oct 26-27, 2023
- Organized a 5-day workshop on “Writing Good Research Project Proposals for External Funding” during Jan 22-27, 2024.
- Attended IIC regional meet by Dr. Himesh Kumar held at Amity University, Rajasthan organized by MoE's Innovation Council as NIT Uttarakhand representative on 4th Jan 2024.
- Organized a 2-day workshop on “*Standards Ecosystem*” - A Sensitization Workshop for operationalization of the MoU between NIT Uttarakhand and Bureau of Indian Standards (BIS) during March 06-07, 2024.
- Organized 2nd National Level Innovation Fest Navikarnam 2024 of NIT Uttarakhand during March 9-11, 2024.
- The IPR Cell, NIT Uttarakhand has organized a Lecture Series on Intellectual Property Rights sponsored by Uttarakhand State Council for Science & Technology (UCOST), Dehradun by inviting following Experts:
- Expert: Sh. Ravi Pandey, Research Establishment Officer (Innovation and Incubation), SIDBI Innovation and Incubation Center, IIT Kanpur.

Topic: IP Ecosystem and Technology Transfer

Date: 6th March 2024 (Wednesday)

- Expert: Sh. Himanshu Goel, Scientist-B, Patent Information Center (PIC), UCOST

Topic: Traditional IP Knowledge and Role of UCOST in supporting IPs

Date: 21st March 2024 (Thursday)

- Expert: Sh. Govind Sharma Ji, Retd. Chief NRDC, Gol and Regd. Patent Agent

Topic: Commercialisation of an IP

Date: 22nd March 2024 (Thursday)

06.07 DESIGN INNOVATION CENTRE:

Design innovation centre (DIC) was approved by the Ministry of Education (MoE), Government of India in 2018. The centre is established at Indian Institute of Technology Roorkee which is working as Hub, and NIT Uttarakhand as one of the spokes. The DIC NIT Uttarakhand worked on innovations in product developments, and added value to the existing engineering design. Several ideas have been perused for the development of new pedagogy in teaching and training in design and innovations. A number of design technologies for Hilly terrain have taken up at DIC, NIT Uttarakhand.

06.08 DESIGN INNOVATION CENTER

Design innovation centre (DIC) was approved by the Ministry of Education (MoE), Government of India in 2018. The centre is established at Indian Institute of Technology Roorkee which is working as Hub, and NIT Uttarakhand as one of the spokes. The DIC NIT Uttarakhand worked on innovations in product developments, and added value to the existing engineering design. Several ideas have been perused for the development of new pedagogy in teaching and training in design and innovations. A number of design technologies for Hilly terrain have taken up at DIC, NIT Uttarakhand.

06.09 SKILL HUB ESTABLISHED AT NIT UTTARAKHAND UNDER PRADHAN MANTRI KAUSHAL VIKAS YOJANA 4.0

The National Institute of Technology, Uttarakhand inaugurated the Skill Hub under the Pradhan Mantri Kaushal Vikas Yojana 4.0 on 12th October 2023. The objective of the Skill Hub includes enabling an ecosystem for the youth to get skilled and choose a career path aligned with their abilities and aspirations as per the current requirements of the market. A course titled "Junior Software Developer" was offered by the Department of Computer Science & Engineering under the Skill Hub of NIT Uttarakhand. The course content was covered by three different departments/sections: Department of Computer Science & Engineering, Department of Humanities and Social Sciences and Career Counselling and Placement Section. Eight candidates from outside the Institute successfully completed the course and received the course completion certificate.



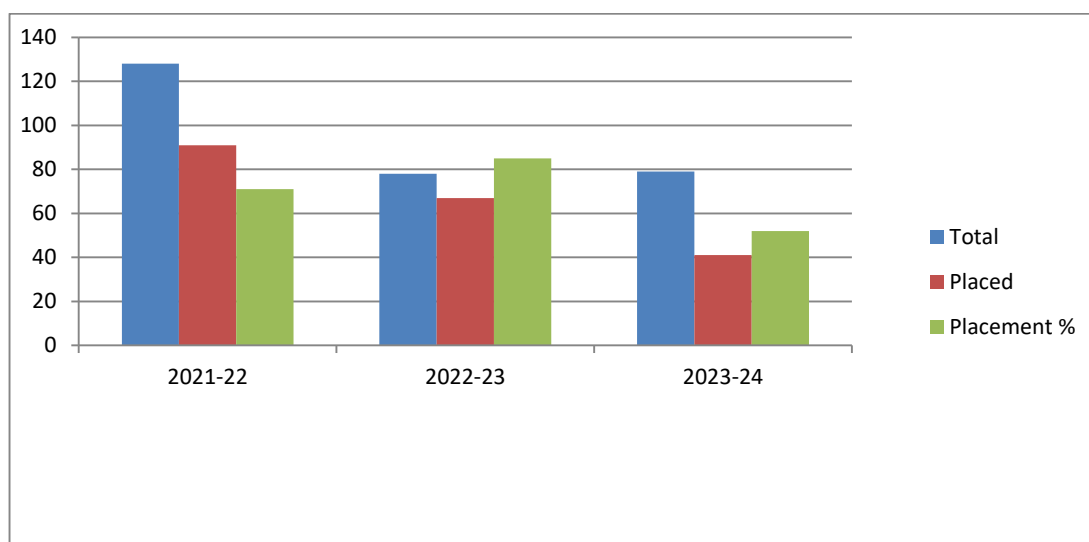


CAREER COUNSELLING AND PLACEMENT (C2P) CELL

The placement percentage of the B.Tech students in the year 2023-24 is approximately 52%.

The tabular and graphical representation of the placement percentage of the B. Tech students last three years is as follows:

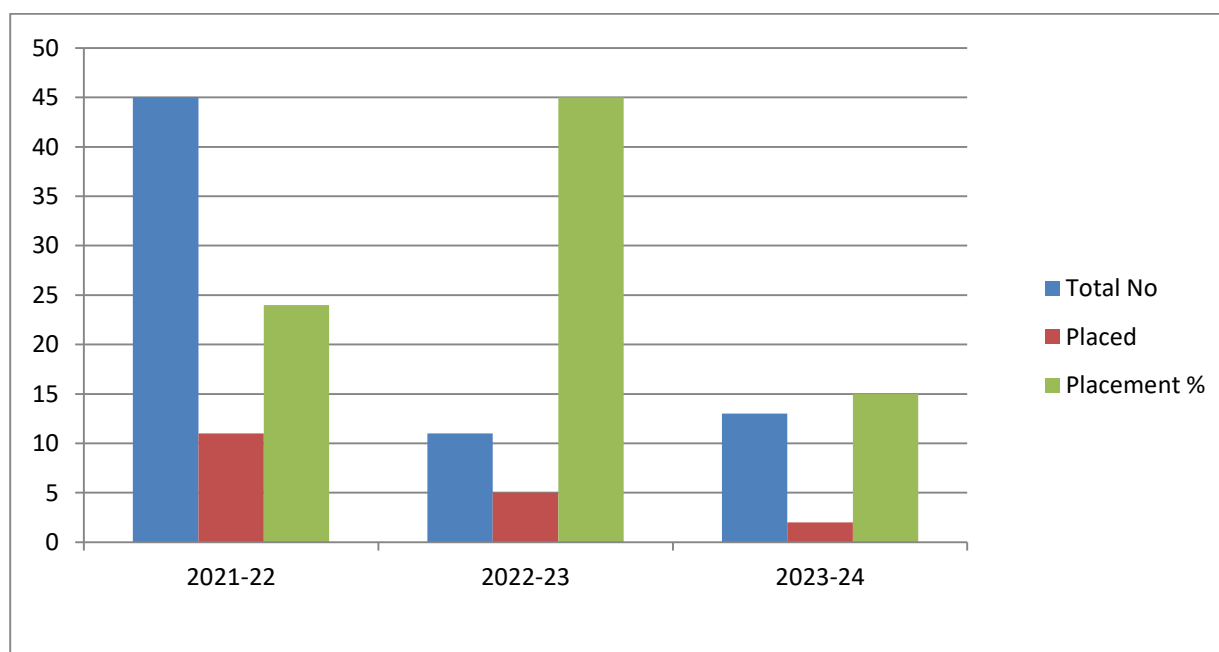
Year	Total no. of students	Placed	Percentage
2021-22	128	91	71.09
2022-23	78	67	85.89
2023-24	79	41	52 (Till date)



The internship percentage of the B.Tech students in the year 2023-24 is approximately 20%.

The internship data for the last three years is as follows:

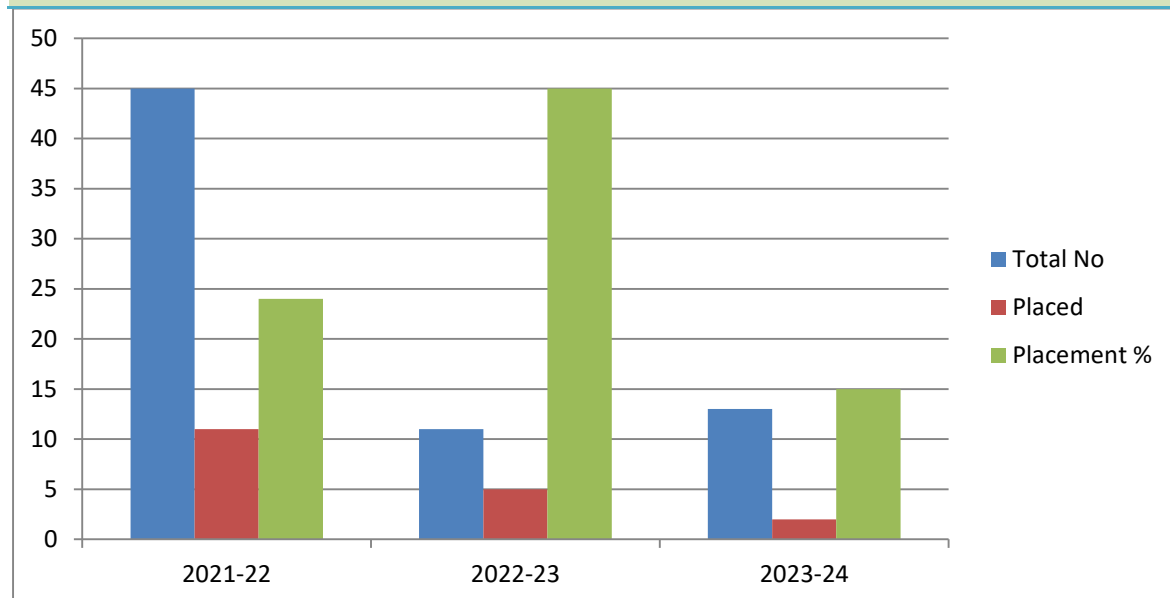
Year	Total No. of students	Internship	Percentage
2021-22	128	40	31.25
2022-23	78	27	34.61
2023-24	79	16	20.25



The placement percentage of the M.Tech students in the year 2023-24 is approximately 15% .

The tabular and graphical representation of the placement percentage of the M. Tech students last three years is as follows:

Year	Total no. of students	Placed	Placement %
2021-22	45	11	24.44
2022-23	11	5	45.45
2023-24	13	2	15.38



B.Tech.2022-23 Batch Placement Summary

B.Tech 2023-24 Batch Placement Record Summary					
S. No	Branch Name	Total No. of Students	Total Students Eligible for Placement	Total Students Placed	Placement %
1	CIV	15	15	4	26.67
2	CSE	21	18	12	66.67
3	ECE	19	18	8	44.44
4	EEE	15	11	7	63.64
5	MEC	19	17	10	58.82
Total		89	79	41	51.90

M. Tech 2022-23 Batch Placement summary

Placement Details of Batch MTECH 2023-24					
S. No.	Branch	Total No. of Students	Total Students Eligible for Placement	TOTAL PLACED	PLACED %
1	CIV	5	5	0	0.00
2	CSE	2	2	0	0.00

3	ECE	5	4	1	25.00
4	EEE	0	0	0	0.00
5	MEC	2	2	1	50.00
Total		14	13	2	15.38

Some Placed B.Tech Students:



**Satyam Singh
Gurjar (BEL &
L&T)**



**Elugu Nikshitha
(L&T)**



**Deepika Sharma
(L&T)**



Shreya Pradhan (L&T)



Lalit Mehra (L&T)



**Vinayak Kala (Pie
Infocomm & L&T)**



**Medhavi Sharma
(Publicis Sapient, TCS
& C-DAC)**



**Aman Singh Bhandari
(C-DAC & MAQ)**



**Malay Kaushik
(Optym)**



**Om Prakash
(Genpact)**



**Md. Shadab
(C-DAC)**



**Ayush Dhiman (Publicis
Sapient & Samsung
R&D)**



**Minal Kapse (C-
DAC & Flipkart)**



**Abhishek Gairola
(L&T)**



Roshan Raj (TCS)



**Gaurav Singh Bisht (221
B Baker ST)**

Our Recruiters:



DISPENSARY SECTION

❖ **About the Dispensary:** The dispensary provides complete free basic medical facilities/services for the students and staff members of the institute on 24 x 7 and 7 days. In Dispensary Section, there are four nursing staff is available throughout the day and a visiting doctor from Government hospital (Srikot) offers daily service during evening (6 pm to 7 pm).



- ❖ It is Procured Sphygmomanometer to measure blood pressure.



- ❖ The Institute has facility to avail Ambulance service for 24hrs during emergency/ any health issue and further, the ambulance is used shift patient to higher center such as Rishikesh, Dehradun and Haridwar etc.



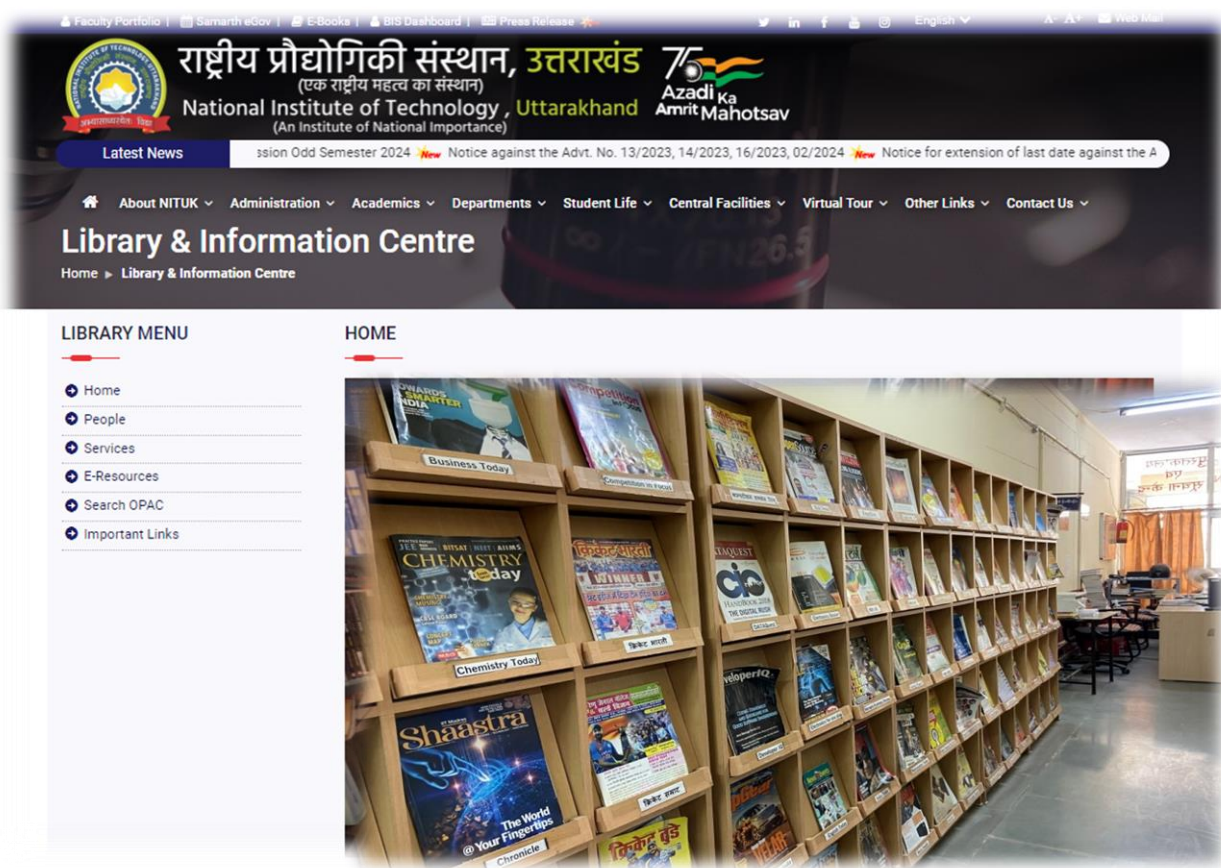
❖ Medicines.



LIBRARY SECTION

LIBRARY AND INFORMATION CENTRE

The library has a rich collection of books on Science and Technology, Engineering, Humanities and Social Sciences and also a good collection of Sports, Yoga, English and Hindi Fiction. The library has four stack rooms with subject-wise arrangement of books on the shelves according to the Universal Decimal Classification Scheme. The library has one reading room which remains open 24x7 for the students and the staff members.



Library Webpage

Library Working Hours:

The library remains open on all days of the year except on holidays of National and Religious importance (i.e. Republic Day, Holi, Independence Day, Gandhi Jayanti, Diwali and Dusshera). The library opens from 08:00 am to 08:00 pm (Monday to Friday) and 09:00 am to 06:00 pm (Saturday and Sunday).

**LIBRARY RESOURCES:****Total Collection:**

Books	36,346
Standards	514
CDs/DVDs	04
NPTEL Video Lectures	135
Online Databases	04
Online Books	26,457
Anti-Plagiarism Software	01

- **Text Book and Book Bank Collection:**

The text books of the prescribed syllabus and other recommended books are kept in the Text Book Section along with separate Book Bank collection for use and easy access the users.

- **Reference Collection:**

The Library has a collection of General reference books including Encyclopedias, Dictionaries, Directories, Handbooks, Bibliographies, and Atlases etc. and these are available for reference within the library premises and are not for lending.

- **Hindi Collection:**

The Library has built up a good collection of Hindi Literature to increase the use of Rajbhasha. Hindi Books are kept in front area near Reference collection in the Library to promote its usage.

- **Audio-Visual Collection:**

A good collection of Educational videos (i.e. NPTEL video courses) are available for the users on varied subjects and are made accessible via FTP server of the Institute. Also, there is a collection of CDs/DVDs in the library covering various subject areas like academic, entertainment, Information Technology and Competitive exams etc.

- **Electronic Journals Collection:**

The library subscribed various online journals during this year from renowned publishers on the basis of Annual Subscription which can be accessed 24X7 by the Library users.

- **Electronic Books Collection:**

There are around 26,457 titles of E-books procured by the library from various renowned publishers like Elsevier, Tata McGraw Hill, Wiley, Pearson, ASME Press, IEEE-MIT Press, IEEE-Wiley, Springer and ICE publishing on perpetual basis (i.e. lifetime) which can be accessed 24x7 by the users of the Institute.

- **Computer and Networking Facilities**

The library is connected to the campus LAN and Wi-Fi facility. The library server works under Windows 10 environment.

Library has LAN connectivity with fibre optic cable (10/100 mbps) through the Computer Department and is connected to Web Server (Duel Xeon) - providing network facility.



- **In-house Activities:**

The Library uses Koha software which is an integrated multi-user library automation management system that supports all in-house activities of the library. All in-house activities of the library like acquisition; cataloguing, circulation, etc. are fully computerized through Koha (Library Management Software). The database of the entire library acquisitions is being updated on regular basis along with details of recently acquired books. The details of all the Library patrons are maintained in the software along with their 'Image Database'. The barcoding of all library resources is in final stages. The library has shifted to Web OPAC facility this year under which all the bibliographic details of the library collection can be accessed from Internet 24x7 on all week days by the users.



Koha Web OPAC
<http://172.30.21.204:8000/>

Library Services and Facilities:

- **Book Bank:**

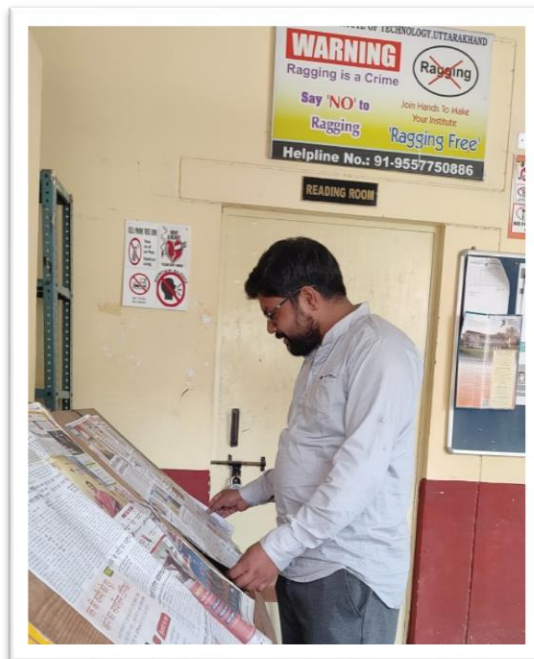
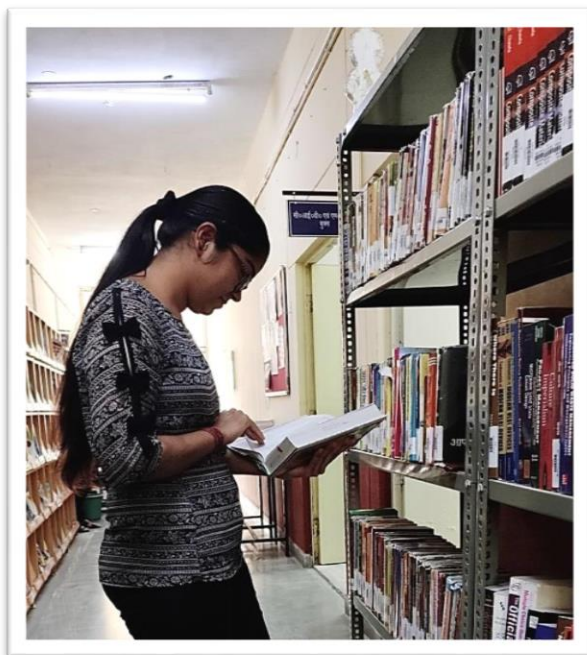
The Library provides Book Bank facility to the B.Tech. and M.Tech students. Under the Book Bank facility, the set of textbooks are issued to the individual student for entire semester (i.e. for six months).

- **Reader's Assistance:**

The library provides assistance to the users about the location of resources and assists in accessing of e-resources.

- **Newspapers and Catalogues:**

The library subscribed 05 (4 Hindi and 1 English) newspapers including daily and weekly papers. The Library display Catalogues for the users to help them in selection of books for Book Recommendations.



- **Newspaper Clippings:**

The library maintains and keeps the record of News clips of the news related to the Institute.

- **Plagiarism Detection Software:**

Institute Library provides similarity check software like Urkund that allows you to detect similarity from project work, academic paper, article, dissertation/theses, or any other research or innovation-related work.

- **Email Alert:**

The Library provides 'Email Alert Service' for the Circulation (Issue/Return) and various other activities of the library.

- **Orientation Programme:**

The library orientation programme is conducted every year at the beginning of the session for the newly admitted students to familiarize them with the facilities and services available in the library for the effective and maximum use of the library resources.

- **Membership:**

The Membership of the Institute's Library is open to all the Students, Faculty members, Research Scholars, Officers and Technical/Non-Technical Supporting Staff of the Institute.

- **Library Advisory Committee:**

There is Library Advisory Committee which consists of the Chairman, all the HODs and I/c Assistant Librarian as the member Secretary. The Library Committee meets from time to time to resolve issues/matters, if any; lay down the policies and review the working conditions for smooth functioning of the library.

ALUMNI CELL

Our following distinguished alumni has attained outstanding success in the Civil Services Examination UPSC 2023 examination.

Sr. No.	Alumni/Alumna	Department	Batch	UPSC 2023 AIR	
1	Aishwaryam Prajapati	B.Tech. (Electrical & Electronics Engineering)	2016-2020	10	
2	Vipin Dubey	B.Tech. (Civil Engineering)	2014-2018	238	
3	Dev Vrat Joshi	B.Tech. (Civil Engineering)	2018-2022	334	
4	Aditya Dohar	B.Tech. (Mechanical Engineering)	2016-2020	603	

5	Ayush Jaiswal	B.Tech. (Computer Science & Engineering)	2016-2020	707	
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Our following distinguished alumni has attained outstanding success in the Engineering Services Examination 2023.

No.	Alumni/Alumna Name	Branch	Batch	Rank in ESE 2023 and Domain	
1	Shivashish Gautam	Civil Engineering	2013-2017	66 (Civil Engineering)	
2	Sudhanshu Bhandari	Civil Engineering	2015-2019	27 (Civil Engineering)	

Glimpse of Alumni Meet 2023





The 5th Alumni Meet at the National Institute of Technology, Uttarakhand, held on November 4, 2023, was a significant event uniting distinguished alumni, faculty, and students to celebrate shared achievements and future collaborations. The event began with a ceremonial lamp-lighting by Prof. Chandra Shakher, Emeritus Professor at IIT Delhi and Chief Guest, and Prof. Lalit Kumar Awasthi, the Hon'ble Director and Guest of Honour. Esteemed guests included Dr. Pamita Awasthi, Prof. Sumit Kumar Awasthi, Dr. Dharmendra

Tripathi, and Dr. Jagrati Sahariya. Prof. Lalit Kumar Awasthi warmly welcomed Prof. Chandra Shakher with a floral arrangement, shawl, and memento. Dr. Mahiraj Singh Rawat provided an overview of the alumni community, highlighting 1895 graduates and 50 attendees at the meet, stressing alumni's role in placements and research. Dr. Dharmendra Tripathi emphasized reconnecting alumni with their alma mater, highlighting infrastructure developments under Prof. Awasthi's leadership. Dr. Jagrati Sahariya shared insights into academic progress, including plans to increase student intake and introduce new PG programs. Prof. Lalit Kumar Awasthi recognized NIT Uttarakhand's quality in technical education, celebrated alumni achievements in UPSC and Civil Engineering Services Examinations, and urged alumni to engage through social media and various initiatives. The event saw the establishment of an Alumni Association Executive Committee and emphasized alumni's role in bridging industry and education. Prof. Chandra Shakher emphasized the transformative power of dedicated research and a robust alumni network. The meet concluded with the inauguration of the alumni logo, certificate distribution, a vote of thanks by Dr. Rakesh K. Mishra, and a group photograph, followed by high tea and campus visits.

To felicitate the Distinguished Alumni, the following alumni is awarded with Young Distinguished Alumni Award in Year 2023.

Alumna/Alumnus Details	
Mr. Vibhav Saini, Alumnus of B.Tech. (Electronics and Communication Engineering), Batch (2010-2014), Department of Electronics Engineering	

Alumni Affairs Section invites the alumni for career guidance and counselling to undergraduate and postgraduate students through Alumni Talk Series. The following alumni talks were conducted for the Academic Session 2023-2024.

Sr. No.	Alumni Details	Topic	Date	
1.	Shashank Singh, Alumnus of B.Tech. Civil Engineering (2015-2019) Batch	Cracking the Engineering Services Examination: Strategies and Tips for Success	06 th August 2023	
2.	Mayank Rajpurohit, Alumnus of B.Tech. EEE, Batch 2015-2019	Exploring the opportunities in the field of Data Engineering: Navigating the path to success	19 August 2023	
3.	Aniket Gupta, Alumnus of B.Tech. ECE Batch (2016-2020)	Career Openings within the thriving Semiconductor sector	21 st August 2023	
4.	Shailendra Singh Shah, Alumnus of B.Tech. Civil Engg. Batch (2015-2019)	Preparation Strategies for GATE/ESE	29 April 2023	
5.	Vishesh Kumar, Alumnus of B.Tech. MEC, Batch, Batch 2015-2019	Preparation strategies for Job Interviews, Higher Studies and personality development	12 th August 2023.	

6.	Mr. Vipin Dubey Alumnus of B.Tech.- Civil, Batch (2014- 2018)	Opportunities in Civil Services	14 th January 2023	
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The list of alumni from the institute who have been selected for higher studies at prestigious universities.

Sr. No.	Pass out Batch	Department	Name	Program Selected	Institute	Year of Admission
1	2021	ME	Shomanshu Singh	MBA	Symbiosis Institute Of Business Management Pune	June, 2023
2	2020	ME	Naveen Kumar Nitar	M.Tech	IIT Roorkee	July 2023
3	2019	EEE	Neha Manjul	Ph.D	NIT Kurukshetra	September 2023
4	2022	CIV	Sushil Kumar Jaiswal	M.Tech	IIT Gandhinagar	July 2023
5	2022	CIV	Muskan Rawat	M.Tech	NIT Kurukshetra	August 2023

FACULTY WELFARE SECTION

Recruitment for the post of Professor, Associate Professor & Assistant Professor (Grade-I &II)

- The Institute advertised 09 posts of Professor, 05 posts of Associate Professor, 01 post of Assistant Professor (Grade-I) and 07 posts of Assistant Professor (Grade-II) in various departments vide Advertisement Nos. 06/2022 dated 18.07.2022, 13/2022 dated 13.12.2022 and 10/2022 dated 13.12.2022 respectively.
- The following listed candidates are selected after recommendations of various selection committees and subsequent approval of the 49th BoG.
- The list of selected candidates is as follows:

Recruitment for the post of Professor, Associate Professor and Assistant Professor (Grade-I & II) in Various departments.

S. No.	Department	Name of Post	Advertisement. No.	Name of Faculty member	Category
1	Electrical and Electronics Engineering	Professor	06/2022 dated 18.07.2022	Vivek Shrivastava	UR
2	Physics			Vimal Sharma	UR

S. No.	Department	Name of Post	Advertisement. No.	Name of Faculty member	Category
1	Electrical and Electronics Engineering	Associate Professor	13/2022 dated 13.12.2022	Dr. Prakash Dwivedi	UR
2	Civil Engineering			Dr. Kranti Gyanchand Jain	UR
				Dr. Vikas Pratap Singh	UR
				Dr. Hardeep Kumar	UR
3	Physics			Dr. Jagrati Sahariya	UR
				Dr. Manvendra Singh Khatri	UR
				Dr. Pankaj Kandwal	UR
4	Chemistry			Dr. Saroj Ranjan De	UR
				Dr. Kuldeep Sharma	UR
5	Mathematics				

S. No.	Department	Name of Post	Advertisem ent. No.	Name of Faculty member	Catego ry
6	Computer Science and Engineering	Assistant Professor (Grade-I)	10/2022 dated 13.12.2022	Dr. Kamal Kumar	UR
				Dr. Maroti B. Deshmukh	UR
				Dr. Maheep Singh	OBC
				Dr. Abhimanyu Kumar	OBC
7	Electronics and Communication Engineering			Dr. Tushar Goel	UR
				Dr. Pankaj Kumar Pal	OBC
8	Electrical and Electronics Engineering			Dr. Mahiraj Singh Rawat	UR
				Dr. Sourav Bose	UR
				Dr. Suryanarayana Gangolu	SC
9	Civil Engineering			Dr. Smita Kaloni	UR
				Dr. Shashank Bhatra	UR
				Dr. Shashi Narayan	UR
10	Mechanical Engineering	Assistant Professor (Grade-I)	10/2022 dated 13.12.2022	Dr. Apurba Mandal	SC
		Dr. Vikas Kukshal		UR	
		Dr. Niraj Kumar Mishra		UR	
		Dr. Dungali Sreehari		OBC	

S. No.	Department	Name of Post	Advertisement No.	Name of Faculty member	Category
1	Humanities and Social Sciences	Assistant Professor (Grade-II)	10/2022 dated 13.12.2022	Dr. Meenakshi Rana	UR
				Dr. Jasmine Sharma	UR
2	Electronics and Communication Engineering			Dr. Jaiverdhan	UR
3	Electrical and Electronics Engineering			Dr. Anant Milan Khalkho	ST
				Dr. Ravinder Kumar	UR
4	Civil Engineering			Dr. Akhilesh Nautiyal	UR
5	Mechanical Engineering	Assistant Professor (Grade-I)	10/2022 dated 13.12.2022	Dr. Apurba Mandal	SC
				Dr. Vikas Kukshal	UR
				Dr. Niraj Kumar Mishra	UR
				Dr. Dungali Sreehari	OBC

CENTRAL COMPUTER CENTRE (CCC)**COMPUTER CENTRE**

Computer Centre is a central facility, which caters to the needs of different academic departments and various sections of the institute. The mission of Computer Centre at NIT Uttarakhand is to create and maintain a computing environment for the pursuit of academic excellence. The ultimate aim of the centre is to provide professional services, promote and assist the use of new computing technology among the students, staff and administration. Computer Centre at NIT Uttarakhand aspires to be a leading computational facility in higher education. Computer Centre manages various computing and communication facilities through out the campus. NIT Uttarakhand has state-of-the-art campus wide network over the fiber backbone, wi-fi and videoconferencing. Center has servers from IBM, Dell etc. To facilitate the use of the latest information technology in Institute Computer Centre is a central facility, which caters to the needs of different academic departments and various sections of the institute. The mission of Computer Centre at NIT Uttarakhand is to create and maintain a computing environment for the pursuit of academic excellence. The ultimate aim of the centre is to provide professional services, promote and assist the use of new computing

technology among the students, staff and administration. Computer Centre at NIT Uttarakhand aspires to be a leading computational facility in higher education. Computer Centre manages various computing and communication facilities through out the campus. NIT Uttarakhand has state-of-the-art campus wide network over the fiber backbone, wi-fi and videoconferencing. Center has servers from IBM, Dell etc

FACILITY AND SERVICES

Internet Connectivity: Whole Campus, Departments and Hostels are covered with Internet Connectivity of Leased Line of 1 Gbps terminated at Cisco ME3800X Series router from NKN provided by BSNL and 100 Mbps link from Airtel.

Wi-Fi Campus: The whole NITUK Campus is connected via Wi-Fi. The Wi-Fi is available 24*7*365.

Servers: The Institute has two high Capacity Servers and one Network Storage Device installed in the Central Computing Centre

Server 1: 4-Dell Blade Servers

Server 2: 4-IBM Blade Servers

Network Storage Device: Dell Power Vault NX3200 (6TB)

Network Security: Cyberoam Unified Threat Management appliance (1500 ing XP) for Internet and network security management.

Email Web Server: Institute Web mail server of nituk.ac.in domain at Google suite Cloud.

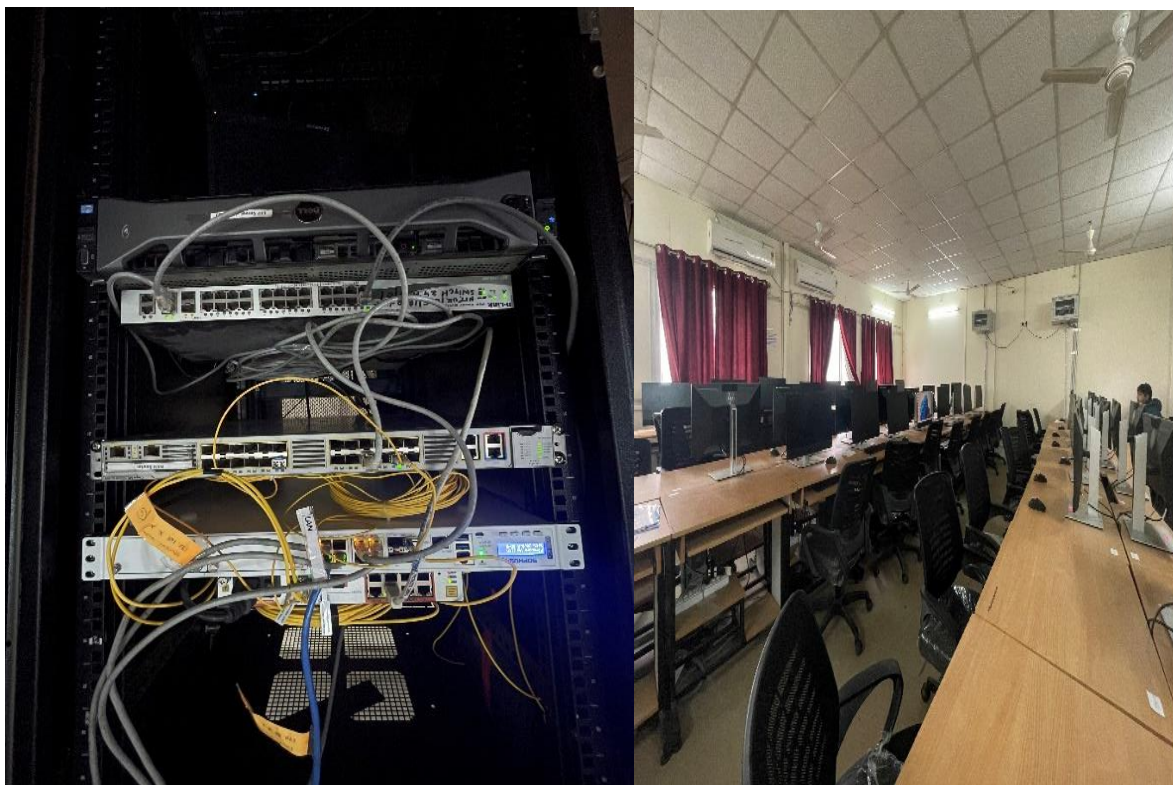
Online UPS: 20 KVA Installed at Institute Server Room for power backup of network and server devices.

CCTV Surveillance: The entire campus are covered with latest Cameras for CCTV monitoring.

Computer System: 100 (46(new) + 54(old)) Computer systems with latest configuration are installed at Computer Centre for online examinations and other research works:

Name of Section	Hardware Configuration	
Computer Centre	Operating System	Windows 11 Pro, Ubuntu 22.04
	Processor	Intel core i7 (12 th Gen.)
	RAM	32 GB
	SSD	500 GB

	Graphics Card	Inbuilt
	Display	23 inch



INTERNAL COMPLAINTS COMMITTEE (ICC)

The Internal Complaints Committee (ICC) is a grievance redressal forum to address the grievances of the Sexual Harassment of women at the Workplace. The Government of India notified the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act in 2013. Consistent with the Vishaka judgment, the Act aspires to ensure women's right to workplace equality and free from sexual harassment. The objectives of ICC are as follows:

- To create a welcoming working environment at NIT Uttarakhand, free of gender discrimination and sexual harassment for female staff and students.
- To increase awareness and sensitivity to this critical issue amongst all concerned.

S.No	Name/Designation	Position in the Committee
.		

1.	Dr. Jagarti Sahariya, Assistant Professor (Grade-1), Department of Physics	Presiding Officer
2.	Dr. Sarika Pal, Assistant Professor (Grade-1), Department of Electronics Engineering	Member
3.	Dr. Sarita Yadav, Trainee Teacher, Department of Electronics Engineering	Member
4.	Mrs. Beena Rawat, Senior Assistant, Store Section	Member
5.	Dr. Pankaj Kandwal, Assistant Professor (Grade-1), Department of Chemistry	Member
6.	Mr. Mohd. Arshad Saify, Technical Assistant (Mech. Engg.)	Member
7.	Mrs. Vijay Laxmi Raturi (Advocate)	External Member

Discrimination Against Women Pakhwada

The Institute observed the Discrimination Against Women Pakhwada from 25th November to 10th December 2022. During this period, various activities were proposed as follows:

1. Expert lecture series for the sensitization of the employees and students to make them aware about the provisions of the Act.
2. Observance of the 25th November as the International Day for the Elimination of Violence against Women. And 10th December 2022 as International Human Rights Day
3. Observance of Discrimination Against Women Pakhwada from 25th November to 10th December, 2022.
4. Internal Complaints Committee to conduct special drive to review the pending cases and take appropriate action before 9th December 2022.

During this Pakhwada, NIT Uttarakhand has also organized competitions for the employees and students of Institute to make them aware about the Act 2013.

The Discrimination Against Women Pakhwada was observed in the NIT Uttarakhand during 25th November 2022 to 10th December 2022. The Pakhwada was commenced by observing the International Day for the Elimination of Violence against women on 25th November 2022. On this occasion, Prof. Lalit K Awasthi, Director, NIT Uttarakhand,

Dr. Hariharan Muthusawmy, I/c Registrar, NIT Uttarakhand, Deans, Faculty members and staff members were present.

During the session, to sensitized the employees of the Institute about the Sexual Harassment of Women at Workplace (Prevention, Prohibition and redressal) Act, 2013, an expert lecture was organized. A few glimpse of the event are provided below:



As per the motive of the Govt. of India, to spread the awareness about the Vishakha Act and to make students and employees aware about the discrimination against women, the institute has organized the poster making competition for students and employees on 26th November 2022. In this competition 15 students/employees have participated and shared their views on "Discrimination against women" through their creativity and art.

On 27th November 2022, Slogan writing competition was organized for the faculty, staff and students of NIT Uttarakhand. In total 12 participants have written the slogan.



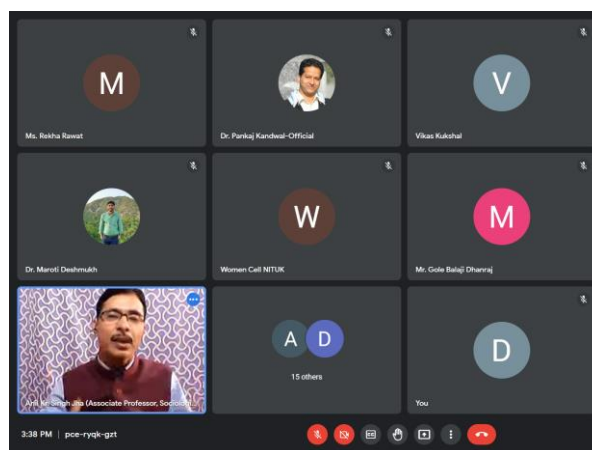
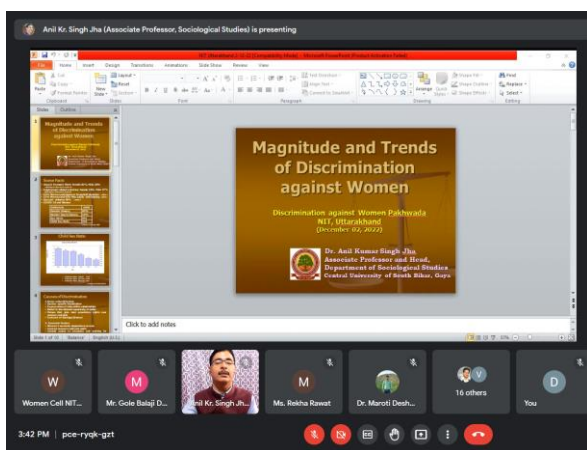
On this occasion Dr. Jagrati Sahariya, Chairperson, Internal Complaint Committee (ICC), Dr. Pankaj Kandwal and Dr. Sarika Pal, ICC members were present. Few glimpse of the event are as follows:

Gender Sensitization Session for Students of Institute:

During this pakhwada, Internal Complaint Committee has organized the gender sensitization sessions for the boys and girls students of the Institute, separately on December 4 and 5th 2022. During these sessions students were also informed about the guidelines of Act 2013. Few glimpses of the sessions are as follows:

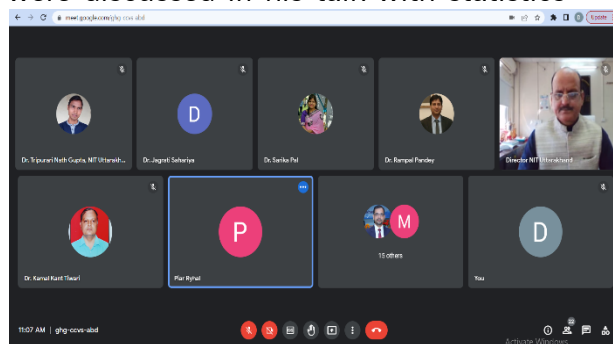
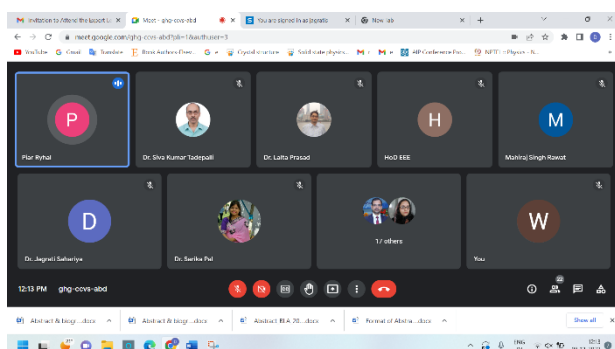


Expert Lecture Series:



Second lecture during this Pakhwada was organized an expert lecture on December 8, 2022 at 11:00 AM through virtual mode for the faculty, staff and students of the Institute. The speaker for the lecture was Prof. P.C Rhyal, Retired Professor NIT Hamirpur. He has delivered

a lecture on "Discrimination against women: How does it effect today's women". Various causes of discrimination of women in the society were discussed in his talk with statistics across various Indian states and India's standing Internationally in the matter. Some glimpse of his lecture are as follows;



3) On the last day of the Discrimination against women Pakhwada i.e. December 10, 2022, the International Human Rights Day was observed. On this occasion, Ms. Vijay Laxmi Raturi, Advocate, Judicial Magistrate, Srinagar has delivered an expert lecture on the Human rights and the laws for Women. On this occasion, Prof. Lalit Kumar Awasthi, Director, NIT Uttarakhand emphasizes on the equality of gender in the society. Prof. Lalit Kumar Awasthi, NIT Uttarakhand distributed the prize to the winners of the Poster & Slogan Competition.





WOMEN'S DAY CELEBRATION

The International Women's day is celebrated every year with a specific theme to uphold *women's* achievements, recognize challenges, and focus greater attention on *women's* rights and gender equality. This year the theme of International Women's day is **DigitALL: Innovation and technology for gender equality**. This year the celebration of International Women's day was commenced from March 1, 2023 and culminated on March 8, 2023.

During this period, poster making, slogan writing competitions were organized for students and staff of the institute based on the theme of Women's day 2023. Prof Lalit Kumar Awasthi, Director NIT Uttarakhand, was the Chief Guest of the Event. Dr. Dharmendra Tripathi I/c Registrar and Dr. Sanat Agarwal (Dean R&C, NIT Uttarakhand) Uttarakhand grace the occasion with their presence. The program was started with the greeting of Dr. Jagrati Sahariya, Chairperson ICC. The chief Guest Director, NIT Uttarakhand, enlightens the audience with valuable words. The celebration ended with the prize distribution followed by the cake cutting ceremony. Some glimpses of the Women's Day celebration are shown below:



VIGILANCE AWARENESS WEEK-2022

Vigilance Awareness Week - 2023 was observed from 30th October to 05th November 2023 in compliance to the Central Vigilance Commission's Circular no. 06/08/23 vide letter No.023/VGL/035/556449 dated 02/08/2023. The theme for the year was "Say No to Corruption, Commit to the Nation"

The program was organized by the CVO office of the Institute. The event induced consciousness regarding the spirit of fair and honest conduct at the workplace and in the community amongst the staff, faculty as well as the students of the Institute. They were encouraged to lead a life of rectitude and morality.

Several activities were performed during the Vigilance Awareness Week to spread awareness among all. The students, staff, faculty and their families were informed regarding the observance of the week via mail dated 29 October 2023. The students were also informed through mail and displaying at several locations within the campus stating the theme of the week and the activities to be performed. Banners with the theme of the week were also displayed at prime locations of the Institute premises. The students, teachers and staff motivated to participate in different activities conducted during the week. An enthusiastic response was seen from the participants. The observance of the week commenced with the

Integrity Pledge at 11.00 AM on Monday, October 30th 2023. Prof Lalit Kumar Awasthi, the Director of the Institute administered Integrity Pledge to the employees of the Institute. In total, more than 80 faculty members including Deans, Heads, Administrative officers and staff members of the Institute took Integrity Pledge. The faculty members and staff of the Institute were also motivated to take E-pledge.

The Slogan Writing Competition conducted in the evening of October 30, 2023, was based on the theme, "Say No to Corruption, Commit to the Nation (" भ्रष्टाचार का विरोध करें, राष्ट्र के प्रति समर्पित रहें ")". Many students participated in the event enthusiastically. In the evening of October 31, 2023, an Essay Competition was organized which garnered participation from eighteen students and staff members. The competition was held both in English and Hindi language. On November 1, 2023, a Speech Competition was conducted, in which students and staff members participated and delivered speech. Poster Making Competition, held on 2 November 2023, garnered great response from the students attracting more than fifteen students. The enthusiasm displayed by both students and staff members during these events was palpable. During these activities, the participants were graciously provided with refreshments. The overall outcome of the event was resoundingly successful in disseminating awareness about the significance of upright and corruption-free conduct among students, faculty, staff, and their respective family members. These activities served as an effective and meaningful platform for participants to comprehend the imperative of fostering a corruption-free nation. Noteworthy was the active engagement not only from students and faculty members but also from their extended family, reflecting a collective commitment to the cause.



Director NITUK, Prof Lalit Kumar Awasthi, Administering Integrity Pledge on 30 Oct 2023



Employees during Integrity Pledge Ceremony



Essay Writing Competition



Speech Competition



Poster Making Competition



PLANNING AND DEVELOPMENT (P&D) SECTION

The Planning and Development section formulates short and long term plans, policies, procedures to operationalize various programmes and activities of the Institute. The section involves Dean (Planning and Development) – Prof. Vivek Shrivastva and Associate Deans, Dr. Bibhash Kumar, (AD P&D-I) and Dr. Mahiraj Singh Rawat, (AD P&D-II) looking after various activities along with Assistant Registrar (AR P&D)- Dr. Akhilesh Nautiyal and supporting staff. The technical staff includes – Mr. Sumit Kumar, JE (Electrical) and Mr. Paras Sah, I/C JE (Civil). The activities of the section include: Overall monitoring and fulfilment of the P&D Activities, strategic management, water and waste management, construction, electrical and civil maintenance, asset management etc.

The section is actively involved in creating infrastructure at Extension Campus (Srinagar, Pauri Garhwal) and Permanent Campus (Sumari, Pauri Garhwal).

SRINAGAR CAMPUS (Phase - I):

The Srinagar campus of NIT, Uttarakhand is being constructed at Resham farm and ITI land. The work has been divided into two phases with approximate total cost of Rs. 7845 Lakhs. Construction work of phase-I of extension campus NITUK has been assigned to CPWD for amounting Rs 37.72 crores. The Phase – I of construction for which work order has been placed consists of six blocks (five hostel blocks and one dinning block) and site development to accommodate 530 students at a cost of Rs. 3772 Lakhs. Construction of 5 Hostel block & 1 Mess Block has started in Phase - I. A total of 7500 sqm area is being developed in Phase – I. Total project cost also includes development of site. Site development is limited to the extent required for various functional requirements of newly constructed Hostels, including Pathway and Boundary wall. Till June, 2024, CPWD had handed over Four Hostel Blocks with accommodation of 350 Students and two Dinning Blocks. At present 98% of the work has been completed.



Construction Activities of Phase-I

SRINAGAR CAMPUS (Phase - II):

Administrative Approval and Expenditure Sanction (A/A & E/S) amounting to Rs. 32,94,29,959/- for the work of the Construction of Phase-II has been granted to Central Public Works Department (CPWD). The phase –II of campus has been planned to construct administrative buildings, laboratories & classroom building, Academic amenity center and recreational block with a multipurpose hall. At present the physical progress of the work is 20%.

**Construction Activities of Phase – II**

S. No	Name of the Building	Total Area (in
1	Class Room & Laboratories	4100
2	Academic Amenity Complex	1000
3	Recreation Facility	2000
4	Administrative Block	500
	Grand Total	7600

SUMARI CAMPUS:

The Sumari campus of NIT, Uttarakhand is being constructed at Sumari village. The first phase of the campus has been planned to accommodate 1260 students on a land of 60 acres with approximate total construction cost of Rs. 65085 Lakhs. Construction of water tank having capacity of 800KI is being done by Uttarakhand Jal Nigam to facilitate the water requirements of the Institute.

The Administrative Approval & Expenditure Sanctioned for construction & development of Infrastructural Facilities at Sumari Campus has been awarded to Project Management Consultant (PMC) i.e., NBCC (India) Ltd.

NBCC (India) Ltd. has issued the Letter of Award to M/S Sam India Builtwell for construction & development of Infrastructural facilities at Sumari campus, Pauri Garhwal. The Hon'ble Director– Prof. B.V Raman Reddy also visited at construction site of Sumari campus.

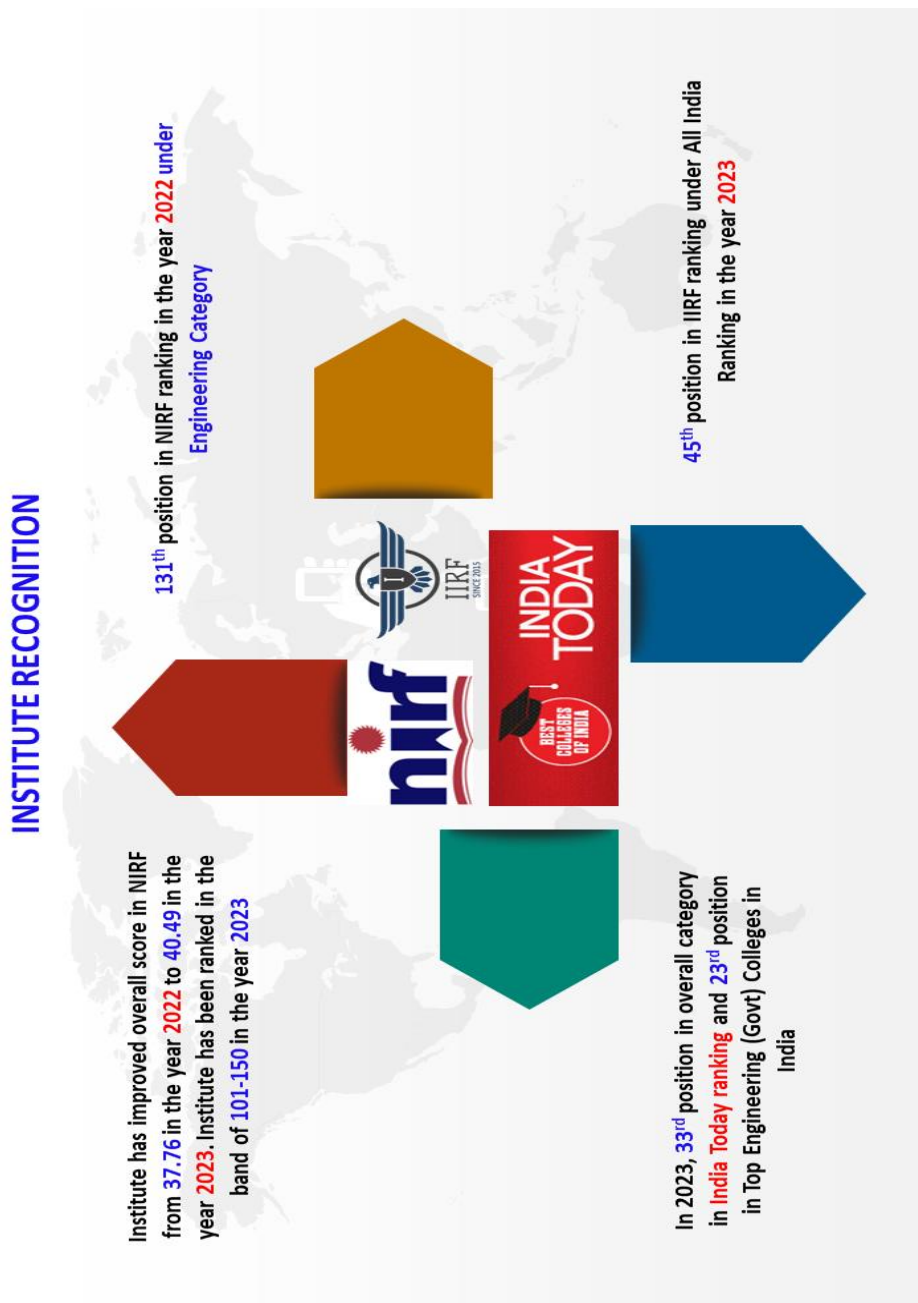
The work of Construction & development of Infrastructural facilities at Sumari has been on going & also the Honorable Minister of Technical Education Dr. Dhan Singh Rawat visited at Sumari on date 15.06.2024.



Construction Activities of Sumari Campus

INSTITUTE RECOGNITION

19.01 NATIONAL INSTITUTE RANKING FRAMEWORK (NIRF)



19.02 ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS (ARIIA)



ANNUAL ACCOUNT 2023-24



NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND

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NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
BALANCE SHEET OF INSTITUTE AS AT 31st MARCH, 2024

(Amount in Rupees)

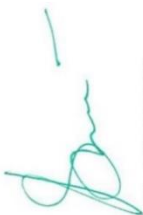
SOURCES OF FUNDS	Schedule	Current Year	Previous year
CORPUS / CAPITAL FUND	1	1,50,92,37,390.00	1,28,02,67,125.00
DESIGNATED / EARMARKED / ENDOWMENT FUNDS	2	6,95,73,784.00	6,61,04,281.00
CURRENT LIABILITIES & PROVISIONS	3	39,61,55,636.00	59,96,78,766.00
TOTAL		1,97,49,66,810.00	1,94,60,50,172.00
APPLICATION OF FUNDS			
FIXED ASSETS	4		
<i>Tangible Assets</i>		25,53,76,812.00	25,33,62,196.00
<i>Intangible Assets</i>		1,02,47,957.00	67,51,046.00
<i>Capital Work-In-Progress</i>		38,98,06,162.00	29,21,81,173.00
<i>Fixed Assets- R&C and Projects</i>		13,40,524.00	13,40,524.00
INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	5		
<i>Long Term</i>		4,29,01,236.00	4,00,00,000.00
<i>Short Term</i>		-	-
INVESTMENTS - OTHERS	6	1,10,41,39,366.00	85,21,34,466.00
CURRENT ASSETS	7	10,00,20,579.00	38,76,49,080.00
LOANS, ADVANCES & DEPOSITS	8	7,11,34,174.00	11,26,31,687.00
TOTAL		1,97,49,66,810.00	1,94,60,50,172.00

SIGNIFICANT ACCOUNTING POLICIES 23
CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS 24


REGISTRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024




I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

Page 1

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2024

(Amount in Rupees)

Particulars	Schedule	Current year	Previous year
INCOME			
Academic Receipts	9	4,83,79,193.00	4,24,60,352.00
Grants/Subsidies	10	32,09,80,354.00	24,67,26,685.00
Income from Investments	11	5,84,51,604.00	4,46,71,751.00
Interest Earned	12	15,98,318.00	37,34,222.00
Other Income	13	8,95,777.00	15,92,037.00
Prior Period Income	14	-	-
TOTAL (A)		43,03,05,246.00	33,91,85,047.00
EXPENDITURE			
Staff Payment & Benefits (Establishment Expenses)	15	26,68,85,744.00	18,38,38,765.00
Academic Expenses	16	3,84,07,904.00	3,09,64,335.00
Administrative and General Expenses	17	5,46,80,689.00	4,97,78,843.00
Transportation Expenses	18	12,77,074.00	6,67,496.00
Repairs & Maintenance	19	36,84,312.00	9,58,254.00
Finance Costs	20	28,868.00	22,248.00
Depreciation	4	2,99,29,892.00	2,81,07,196.00
Other Expenses	21	-	-
Prior Period Expenses	22	54,428.00	57,06,292.00
TOTAL (B)		39,49,48,911.00	30,00,43,429.00
Balance being excess of Income over Expenditure (A-B)		3,53,56,335.00	3,91,41,618.00
Transfer to / from Designated Fund			
Student Activity Fund		29,67,500.00	26,25,000.00
Development Fund		39,74,000.00	34,00,000.00
Sustainability Fund-TEQIP III		-	73,96,668.00
Alumni Association Fund		2,97,500.00	2,65,000.00
Balance being Surplus / (Deficit) Carried to : Capital/Corpus Fund		2,81,17,335.00	2,54,54,950.00



[Signature]

I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

Page 2

[Signature]

REGISTRAR
(SH. HARI MAUL AZAD)
PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

SCHEDULE -1 CORPUS/CAPITAL FUND

(Amount in Rupees)		
Particulars	Current Year	Previous Year
Balance at the beginning of the year	1,28,02,67,125.00	1,01,38,97,229.00
Add: Contributions towards Corpus/Capital Fund	39,74,000.00	34,00,000.00
Add: Grant from Govt. of India and State Govt. to the extend utilized for Capital Expenditure	18,91,38,241.00	22,20,14,323.00
Add: Assets purchased out of Earmarked Fund	52,31,201.00	2,44,164.00
Add: Other Additions	25,09,488.00	1,52,56,459.00
Add: Excess of Income over expenditure transferred from the Income & Expenditure Account	2,81,17,335.00	2,54,54,950.00
Total	1,50,92,37,390.00	1,28,02,67,125.00
(Deduct) Deficit transferred from the Income & Expenditure Account	-	-
Balance at the end of the year	1,50,92,37,390.00	1,28,02,67,125.00


REGISTRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024




I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

SCHEDULE-2 DESIGNATED / EARMARKED / ENDOWMENT FUNDS															
PARTICULARS	FUND WISE BREAKUP											TOTAL			
	DASA Fund	CSIR (NPL)	TEQIP-III Fund	NMEICT	CSABICMT FUND	MNREGA Fund	UCOST (IPR CELL)	Workshop/ STCI Conference	RAC FUND	PMKVY	NTA CUET EXAM 2023	Student Activity Fund	Alumni Asso. Fund	Current Year	Previous Year
A.															
a) Opening balance	2,55,000.00	20,000.00	3,94,19,687.00	7,93,253.00	22,01,940.00	4,14,991.00	-	1,86,289.00	30,57,465.00	-	-	1,85,81,740.00	11,73,916.00	6,61,04,281.00	5,71,26,085.00
b) Additions during the year	-	-	-	-	12,85,761.00	-	50,000.00	24,69,324.00	32,85,051.00	81,179.00	43,760.00	29,67,500.00	2,97,500.00	1,04,80,275.00	1,43,69,642.00
c) Income from investment made of the funds	-	-	-	-	-	-	-	-	-	-	-	12,47,064.00	-	12,47,064.00	-
d) Accrued interest on Investments/Advances	-	-	2,41,667.00	-	-	-	-	-	-	-	-	8,96,234.00	-	11,39,901.00	-
e) Interest on Savings Bank A/c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61,687.00
f) Other additions (Specify nature):	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
h) Performance Security Forfeited Income	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,57,623.00
i) Others	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,147.00
Total (A)	2,55,000.00	20,000.00	3,96,61,354.00	7,93,253.00	34,87,701.00	4,14,991.00	50,000.00	26,55,813.00	63,42,516.00	81,179.00	43,760.00	2,36,94,538.00	14,71,416.00	7,89,71,521.00	7,18,20,187.00
B.															
Utilisation/Expenditure towards objectives of funds															
i) Capital Expenditure	-	-	12,00,000.00	-	-	-	-	-	-	-	-	38,41,453.00	-	50,41,453.00	4,33,912.00
ii) Revenue Expenditure	-	-	-	-	4,00,461.00	-	15,000.00	12,23,653.00	16,08,819.00	-	43,760.00	9,12,892.00	1,51,699.00	43,56,284.00	52,81,994.00
Total (B)	-	-	12,00,000.00	-	4,00,461.00	-	15,000.00	12,23,653.00	16,08,819.00	-	43,760.00	47,54,345.00	1,51,699.00	93,97,737.00	57,15,906.00
Closing balance at the year end (A-B)	2,55,000.00	20,000.00	3,84,61,354.00	7,93,253.00	30,87,240.00	4,14,991.00	35,000.00	14,32,160.00	47,33,697.00	81,179.00	-	1,89,40,193.00	13,19,717.00	6,95,73,794.00	6,61,04,281.00
Represented by:															
Cash and Bank Balances	2,55,000.00	20,000.00	1,32,19,687.00	7,93,253.00	30,87,240.00	4,14,991.00	35,000.00	14,32,160.00	47,33,697.00	81,179.00	-	1,40,723.00	13,19,717.00	2,55,32,647.00	-
Investments	-	-	2,50,00,000.00	-	-	-	-	-	-	-	-	1,79,01,236.00	-	4,29,01,236.00	-
Interest accrued but not due	-	-	2,41,667.00	-	-	-	-	-	-	-	-	8,96,234.00	-	11,39,901.00	-
Total	2,55,000.00	20,000.00	3,84,61,354.00	7,93,253.00	30,87,240.00	4,14,991.00	35,000.00	14,32,160.00	47,33,697.00	81,179.00	-	1,89,40,193.00	13,19,717.00	6,95,73,794.00	-

(SH. HARI MAUL AZAD)
REGISTRAR

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024



(PROF. B.V. RAMANA REDDY)
HIS DIRECTOR

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

SCHEDULE-2A ENDOWMENT FUNDS

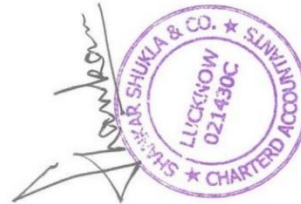
(Amount in Rupees)

1. Sr. No.	2. Name Of The Endowment	3. Opening Balance		4. Additions during the year		5. Total		6. Expenditure on the object during the year	7. Closing Balance		8. 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	Student Activity Fund	1,85,81,740.00	-	29,67,500.00	21,45,298.00	2,15,49,240.00	21,45,298.00	47,54,345.00	1,67,94,895.00	21,45,298.00	1,89,40,193.00
2	Alumni Asso. Fund	11,73,916.00	-	2,97,500.00		14,71,416.00	-	1,51,699.00	13,19,717.00		13,19,717.00
	Total (A)	1,97,55,656.00	-	32,65,000.00	21,45,298.00	2,30,20,656.00	21,45,298.00	49,06,044.00	1,81,14,612.00	21,45,298.00	2,02,59,910.00

Notes:

1. The total of Columns 3 & 4 will appear as the Opening Balance in the Column "Endowment Funds" in Schedule 2, of Earmarked Funds forming part of the Balance Sheet.
2. The total of Col. 9 should normally be less than the total of Col. 8, as only the interest is to be used for the expenditure on the object of the endowments. (except Endowments for Chairs)
3. There should not normally be a debit balance in the schedule. If in a rare case, there is a debit balance against any of the Endowment Funds, the debit balance should appear on the Assets side of the Balance Sheet as "Receivables", in Schedule - 8 Loans, Advances & Deposits


REGISTRAR
(SH. HARI MAUL AZAD)
PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024




I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

SCHEDULE 3- CURRENT LIABILITIES & PROVISIONS

(Amount in Rupees)		
PARTICULARS	Current Year	Previous Year
A. CURRENT LIABILITIES		
1. Deposits from Staff	-	-
2. Deposits from Students	3,76,99,367.00	3,66,76,966.00
3. Sundry Creditors		
<i>a) For Goods & Services</i>	50,67,017.00	1,14,55,999.00
<i>b) Others</i>	-	-
4. Deposit-Others (including EMD, Security Deposit)	25,78,965.00	3,45,725.00
5. Statutory Liabilities (GPF, TDS, WC TAX, CPF, GIS, NPS) :	34,62,661.00	28,11,205.00
<i>a) Overdue</i>	-	-
<i>b) Others</i>	-	-
6. Other Current Liabilities		
<i>a) Fees Received in Advance</i>	64,32,401.00	78,59,731.00
<i>b) Salaries</i>	1,34,99,762.00	1,20,78,738.00
<i>c) Receipts against sponsored projects</i>	87,31,350.00	1,12,77,132.00
<i>d) Receipts in advance against sponsored projects</i>	1,84,731.00	-
<i>e) Receipts against sponsored fellowships & Scholarships</i>	9,65,049.00	2,21,255.00
<i>f) Unutilised Grants</i>	19,84,45,322.00	39,73,94,828.00
<i>g) Grants in advance</i>	-	-
<i>h) Interest Earned on GIA (Refundable)</i>	11,96,326.00	45,29,475.00
<i>i) Other- Expenses Payable</i>	25,95,607.00	41,27,785.00
<i>j) Other liabilities</i>	1,28,936.00	1,02,295.00
4. HEFA Loan (Repayable within 12 months)	5,00,91,242.00	10,98,63,173.00
Total (A)	33,10,78,736.00	59,87,44,307.00
B. PROVISIONS		
1. For Taxation	-	-
2. Gratuity	6,43,41,264.00	1,98,823.00
3. Superannuation Pension	-	-
4. Accumulated Leave Encashment	-	-
5. Trade Warranties / Claims	-	-
6. Other - Leave Salary & Pension Contribution	7,35,636.00	7,35,636.00
Total (B)	6,50,76,900.00	9,34,459.00
Total (A+B)	39,61,55,636.00	59,96,78,766.00



I/e DIRECTOR
(PROF. B.V. RAMANA REDDY)

RPG/STRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024

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NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

SCHEDULE-3(A) SPONSORED PROJECTS

SCHEDULE-3 (A) SPONSORED PROJECTS										(Amount in Rupees)	
Sr. No.	2. Name of the Project	2a PI- Name	Opening Balance		5. Receipts/Interests u/ Recoveries during the year	6. Total	7. Expenditure/ Refund during the year	Closing Balance			
			3. Credit	4. Debit				8. Credit	9. Debit		
A DST PROJECTS											
1	Synthesis and development of polymeric compounds (phenylated quinolone based) for OLED (Organic light emitting devices) applications (SERB)	Dr-IM Nagpure	1,627.00	-	-	1,627.00	-	1,627.00	-	-	-
2	Deconvolvement of Indigenous System for Deciphering Envisioned Apeeth From EEG Signals Using Optimized Deep Convolutional Neural Network Models (SERB)	Dr-Harharan Muthuswamy	29,09,230.50	-	70,738.00	29,79,968.50	24,78,648.00	5,01,280.50	-	-	-
3	Development of Domestic cooking stove based on biomass gasification with porous radiant burner (SERB)	Dr.Niraj Kumar Mishra	5,06,353.50	-	5,08,891.00	10,15,244.50	7,36,150.00	2,79,094.50	-	-	-
4	Development of empirical model for fundamental natural period of buildings constructed in hilly terrains (SERB)	Dr. Smita Kaloni	22,64,100.00	-	58,957.00	23,23,057.00	2,54,942.00	20,68,075.00	-	-	-
5	Computational Modelling and Validation for Directly Transmitted Viral Infection Spread: Pathogenesis and Blood Flow Dynamics (SERB)	Dr-Dharmendra Tripathi	-	-	2,20,407.00	2,20,407.00	-	2,20,407.00	-	-	-
6	Mathematical Modelling and Optimization of Friction Crush Welding Process Parameters (SERB)	Dr-Gurinder Singh Brar	-	-	2,20,407.00	2,20,407.00	-	2,20,407.00	-	-	-
7	Prototype development of a non-invasive plasmonic fiber sensor using nanomaterials for detection of cortisol salivary biomarker (SERB)	Dr-Sarika Pal	-	-	14,15,328.00	14,15,328.00	-	14,15,328.00	-	-	-
8	A Systematic Design of Robust Memory Cell Using Ferroelectric FET (SERB)	Dr-Nitanshu Chauhan	-	-	6,16,342.00	6,16,342.00	-	6,16,342.00	-	-	-
9	Synthesis, Structural and Photocatalytic Properties of Photoactive MoFs	Dr-Ram Pal Pandey	26,909.00	-	-	26,909.00	-	26,909.00	-	-	-
10	Secret Sharing Scheme based technology for Multimedia Security Over Cloud (SERB)	Dr. Krishan Kumar	15,11,994.50	-	20,117.00	15,32,111.50	15,32,111.50	-	-	-	-
Total (A)			72,20,214.50	-	31,31,187.00	1,03,51,401.50	50,01,931.50	53,49,470.00	-	-	-
B OTHER PROJECTS											
11	Study of FeRh epitaxial films and heterostructures for spintronics applications (UGC-DAE)	Dr-Hardeep Kumar	93,197.00	-	1,35,427.00	2,28,624.00	1,96,533.00	32,091.00	-	-	-
12	Fabrication and characterization of Co-based CoP/Ot Multilayered films by electrodeposition (UGC-DAE)	Dr.MS Khatri	6,813.00	-	-	6,813.00	6,813.00	-	-	-	-
13	Development and analysis of cancellable biometric template generation for person identification (UCOST)	Dr-Nitin Kumar	383.00	-	-	383.00	-	383.00	-	-	-
14	National Initiative for Design Innovation (DIC)	Dr-Pawan Kumar Rakesh	23,85,346.50	-	58,174.00	24,43,520.50	4,44,892.50	19,98,628.00	-	-	-
15	Fabrication and Testing of Lower Limb Prosthesis for Transfistibial Amputee using Biocomposites with Energy Restoring Capability (ICMR)	Dr-Pawan Kumar Rakesh	15,71,178.00	-	37,527.00	16,08,705.00	4,47,587.00	11,61,118.00	-	-	-
16	VLSI Design and Implementation of Imagined Speech based Neuroprosthesis: An application in Healthcare System (MeIT)	Dr. Harharan Muthusamy	-	-	15,89,000.00	15,89,000.00	15,89,000.00	-	-	-	-
17	Structural, Electronic and Momentum Density Investigations of Novel Materials Applicable in Energy Conversion and Storage (CSIR)	Dr-Jagrati Sahariya	-	-	8,02,931.00	8,02,931.00	6,36,322.00	1,66,609.00	-	-	-
18	Development of Ceramic and UHMWPE Textile Based Hybrid Polymer Composite Armor (MoT)	Dr. Vikas Kukshal	-	-	1,20,728.00	1,20,728.00	97,677.00	23,051.00	-	-	-
Total (B)			40,56,917.50	-	27,43,787.00	68,00,704.50	34,18,824.50	33,81,880.00	-	-	-
Grand Total (A+B)			1,12,77,132.00	-	58,74,974.00	1,71,52,106.00	84,20,756.00	87,31,350.00	-	-	-

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.

(SH. HARI MAUL AZAD)
PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024

(PROF. B.V. RAMANA REDDY)
I/c DIRECTOR



NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2024
SCHEDULE-3 (B) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS

S.NO 1.	2. Name of Sponsor	Opening Balance as on 01.04.2023		Transactions during the year			Closing Balance as on 31.03.2024	
		3	4	5	6	7	8	
		CR.	DR.	CR.	DR.	CR.	DR.	
1	University Grants Commission	-	-	-	-	-	-	-
2	Ministry of SJ&E	91,955.00	-	-	-	91,955.00	-	-
3	Others (Specify individually):							
	(i) Swami Dayanand Education Found	-	-	-	-	-	-	-
	(ii) Shraman Foundation	59,300.00	-	13,24,517.00	5,80,723.00	8,03,094.00	-	-
	(iii) Uttarakhand District Welfare	70,000.00	-	-	-	70,000.00	-	-
	Total	2,21,255.00	-	13,24,517.00	5,80,723.00	9,65,049.00	-	-

Note:

1. The total of Column 7, (Credit) will appear under the above head, on the liabilities side of the balance sheet (Schedule 3).
2. The total of Column 8 (Debit) will appear as Receivables on the Assets side of the Balance Sheet in Schedule 8 (Loans, Advances and Deposits).

REGISTRAR
(SH. HARI MAUL AZAD)
PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024



I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

SCHEDULE 3 (C) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS

	(Amount in Rupees)	
	Current Year	Previous Year
Balance B/F	40,19,24,303.00	36,99,12,502.00
Add:		
i) Receipts Grant-in-Aid	34,24,00,000.00	27,55,00,000.00
ii) Receipts Grant-in-Aid for HEFA Loan Principal	-	29,67,16,500.00
iii) Receipts Grant-in-Aid for HEFA Loan Interest	30,96,920.00	-
Total Receipts during the year (i+ii+iii)	34,54,96,920.00	57,22,16,500.00
(iv) Grant Receivable previous year	-	(30,90,743.00)
(v) Interest earned during the year	11,96,326.00	45,29,475.00
Total (a)	74,86,17,549.00	94,35,67,734.00
Less:		
(i) Lapsed Grant	3,43,27,831.00	4,77,52,787.00
(ii) Refund to MoE (Interest)	45,29,475.00	2,51,49,636.00
(iii) Utilized for Revenue Expenditure	32,09,80,354.00	24,67,26,685.00
(iv) Utilized for Capital Expenditure	18,91,38,241.00	22,20,14,323.00
Total(b)	54,89,75,901.00	54,16,43,431.00
Unutilized carried forward (a - b)	19,96,41,648.00	40,19,24,303.00
B. UGC Grants: Plan		
Balance B/F		
Receipts during the year	-	-
Less Refund		
Less: Utilized for Revenue Expenditure		
Less: Utilized for Capital Expenditure		
Total (c)	-	-
Unutilized carried forward (c-d)	-	-

Note: Unutilized Grant-in-Aid includes CPWD mobilization advance of Rs. 26,78,930/-



[Signature]
I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

[Signature]
REGISTRAR
(SH. HARI MAUL AZAD)
PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

SCHEDULE 4 FIXED ASSETS

S.No.	TANGIBLE ASSETS	GROSS BLOCK					DEPRECIATION FOR THE YEAR 2023-24			NET BLOCK	
		Original Cost	Additions	Adjustment	Deductions	Closing Balance	Depreciation on Opening Balance	Depreciation for the year	Deductions / Adjustment	31.03.2024	31.03.2023
1	Land	1.00	-	-	-	1.00	-	-	-	1.00	1.00
2	Site Development	3,85,94,549.00	1,67,569.00	-	-	3,87,62,118.00	-	-	-	3,87,62,118.00	3,85,94,549.00
3	Buildings	17,93,87,424.00	-	-	-	17,93,87,424.00	3,26,45,408.00	35,87,749.00	-	14,31,54,267.00	14,67,42,016.00
4	Sports Equipment	-	-	-	-	-	-	-	-	-	-
5	Tubewells & Water Supply	1,74,240.00	-	-	-	1,74,240.00	16,195.00	3,484.00	-	1,54,561.00	1,58,045.00
6	Sewerage & Drainage	-	-	-	-	-	-	-	-	-	-
7	Electrical Installation and equipment	1,24,22,500.00	7,58,996.00	-	-	1,31,81,496.00	45,81,097.00	6,59,088.00	-	79,41,311.00	78,41,403.00
8	Plant & Machinery	13,87,621.00	6,533.00	-	-	13,94,154.00	4,26,097.00	69,709.00	-	8,98,348.00	9,61,524.00
9	Scientific & Laboratory Equipment	5,36,91,982.00	1,07,90,210.00	-	39,243.00	6,44,42,949.00	2,93,84,695.00	49,18,005.00	29,356.00	3,01,69,605.00	2,43,07,287.00
10	Office Equipment	53,29,889.00	6,00,617.00	-	-	59,30,506.00	31,63,313.00	4,44,796.00	-	23,22,397.00	21,66,576.00
11	Audio Visual Equipment	60,12,717.00	2,88,000.00	-	-	63,00,717.00	38,30,351.00	4,65,313.00	-	20,05,053.00	21,82,366.00
12	Computers & Peripherals	6,94,29,110.00	15,72,807.00	-	-	7,10,01,917.00	5,21,49,917.00	50,86,717.00	-	1,37,65,283.00	1,72,79,193.00
13	Furniture, Fixtures & Fittings	3,00,14,047.00	10,03,223.00	-	31,397.00	3,09,85,873.00	1,94,57,283.00	22,02,640.00	17,260.00	93,43,210.00	1,05,56,764.00
14	Vehicles	39,48,471.00	18,65,184.00	-	-	58,13,655.00	34,55,610.00	3,50,251.00	-	20,07,794.00	4,92,861.00
15	Lib. Books & Scientific Journals	1,88,39,692.00	-	-	-	1,88,39,692.00	1,72,19,252.00	6,08,307.00	-	10,12,133.00	16,20,440.00
16	Small Value Assets	18,07,235.00	59,810.00	-	32,045.00	18,35,000.00	18,06,984.00	59,806.00	32,044.00	18,34,746.00	251.00
17	Stock	25,026.00	-	-	25,026.00	-	-	-	-	-	25,026.00
18	Project Development (Office Equipment)	16,480.00	-	-	-	16,480.00	6,180.00	1,236.00	-	9,064.00	10,300.00
19	Audio Visual (CSA)	33,490.00	1,01,453.00	-	-	1,34,943.00	16,478.00	10,243.00	-	1,08,222.00	17,012.00
20	Computer & Peripherals (CSA)	26,200.00	-	-	-	26,200.00	26,197.00	-	-	3.00	3.00
21	Electrical Equipments (CSA)	2,700.00	-	-	-	2,700.00	810.00	135.00	-	1,755.00	1,890.00
22	Sports Equipment (CSA)	6,14,576.00	-	-	-	6,14,576.00	2,10,549.00	49,166.00	-	3,54,861.00	4,04,027.00
23	Furniture & Fixture (CSA)	1,200.00	-	-	-	1,200.00	540.00	90.00	-	570.00	660.00
25	Vehicles (CSA)	-	37,40,000.00	-	-	37,40,000.00	-	3,74,000.00	-	33,66,000.00	-
24	Small Value Assets (CSA)	8,560.00	-	-	-	8,560.00	8,558.00	-	-	2.00	2.00
	Total (A)	42,17,67,710.00	2,09,54,402.00	-	1,27,711.00	44,25,94,401.00	16,84,05,514.00	1,88,90,735.00	78,660.00	25,53,76,812.00	25,33,62,196.00
25	Capital Work in Progress (B)	29,21,81,173.00	9,76,24,989.00	-	-	38,98,06,162.00	-	-	-	38,98,06,162.00	29,21,81,173.00
S.No.	INTANGIBLE ASSETS	Original Cost	Additions	Adjustment	Deductions	Closing Balance	Amortization on Opening Balance	Amortization for the Year	Deductions / Adjustment	31.03.2024	31.03.2023
26	Software	5,46,26,183.00	16,84,748.00	-	-	5,63,10,931.00	5,31,80,074.00	17,20,933.00	-	14,09,934.00	14,46,109.00
27	E-Journals, Books	4,80,14,457.00	1,28,51,320.00	-	-	6,08,65,777.00	4,27,09,520.00	93,18,224.00	-	88,38,033.00	53,04,937.00
	Total (C)	10,26,40,640.00	1,45,36,068.00	-	-	11,71,76,708.00	9,58,89,594.00	1,10,39,157.00	-	1,02,47,957.00	67,51,046.00
	Grand Total (A+B+C)	81,65,89,523.00	13,31,15,459.00	-	1,27,711.00	94,95,77,271.00	26,42,95,108.00	2,99,29,892.00	78,660.00	65,54,96,931.00	55,22,94,415.00

REGISTRAR
(SH. HARI MAUL AZAD)
PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024



Signature of the Registrar

I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

Signature of the Director

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

SCHEDULE 4A FIXED ASSETS- PLAN

S.No.	TANGIBLE ASSETS	GROSS BLOCK					DEPRECIATION FOR THE YEAR 2023-24					NET BLOCK	
		Original Cost	Additions	Adjustment	Deductions	Closing Balance	Depreciation on Opening Balance	Depreciation for the year	Deductions / Adjustment	Total Depreciation		31.03.2024	31.03.2023
1	Land	1.00				1.00	-	-	-	-		1.00	1.00
2	Site Development	3,85,94,549.00	1,67,569.00			3,87,62,118.00	-	-	-	-		3,87,62,118.00	3,85,94,549.00
3	Buildings	17,93,87,424.00	-			17,93,87,424.00	3,26,45,408.00	35,87,749.00		3,62,33,157.00		14,31,54,267.00	14,67,42,016.00
4	Sports Equipment		-			-	-	-		-		-	-
5	Tubewells & Water Supply	1,74,240.00	-			1,74,240.00	16,195.00	3,484.00		19,679.00		1,54,561.00	1,58,045.00
6	Sewerage & Drainage		-			-	-	-		-		-	-
7	Electrical Installation and equipment	1,24,22,500.00	7,58,996.00			1,31,81,496.00	45,81,097.00	6,59,088.00		52,40,185.00		79,41,311.00	78,41,403.00
8	Plant & Machinery	13,87,621.00	6,533.00			13,94,154.00	4,26,097.00	69,709.00		4,95,806.00		8,98,348.00	9,61,524.00
9	Scientific & Laboratory Equipment	5,36,91,982.00	1,07,90,210.00		39,243.00	6,44,42,949.00	2,93,84,695.00	49,18,005.00	29,356.00	3,42,73,344.00		3,01,69,605.00	2,43,07,287.00
10	Office Equipment	53,29,889.00	6,00,617.00			59,30,506.00	31,63,313.00	4,44,796.00		36,08,109.00		23,22,397.00	21,66,576.00
11	Audio Visual Equipment	60,12,717.00	2,88,000.00			63,00,717.00	38,30,351.00	4,65,313.00		42,95,664.00		20,05,053.00	21,82,366.00
12	Computers & Peripherals	6,94,29,110.00	15,72,807.00			7,10,01,917.00	5,21,49,917.00	50,86,717.00		5,72,36,634.00		1,37,65,283.00	1,72,79,193.00
13	Furniture, Fixtures & Fittings	3,00,14,047.00	10,03,223.00		31,397.00	3,09,85,873.00	1,94,57,283.00	22,02,640.00	17,260.00	2,16,42,663.00		93,43,210.00	1,05,56,764.00
14	Vehicles	39,48,471.00	18,65,184.00			58,13,655.00	34,55,610.00	3,50,251.00		38,05,861.00		20,07,794.00	4,92,861.00
15	Lib. Books & Scientific Journals	1,88,39,692.00	-			1,88,39,692.00	1,72,19,252.00	6,08,307.00		1,78,27,559.00		10,12,133.00	16,20,440.00
16	Small Value Assets	18,07,235.00	59,810.00		32,045.00	18,35,000.00	18,06,984.00	59,806.00		18,34,746.00		254.00	251.00
17	Stock	25,026.00	-		25,026.00	-	-	-		-		-	25,026.00
	Total (A)	42,10,64,504.00	1,71,12,949.00	-	1,27,711.00	43,80,49,742.00	16,81,36,202.00	1,84,55,865.00	78,660.00	18,65,13,407.00		25,15,36,335.00	25,29,28,302.00
18	Capital Work in Progress (B)	29,21,81,173.00	9,76,24,989.00			38,98,06,162.00	-	-		-		38,98,06,162.00	29,21,81,173.00
S.No.	INTANGIBLE ASSETS	Original Cost	Additions	Adjustment	Deductions	Closing Balance	Amortization on Opening Balance	Amortization for the Year	Deductions / Adjustment	Total Amortization		31.03.2024	31.03.2023
1	Software	5,46,26,183.00	2,95,000.00			5,49,21,183.00	5,31,80,074.00	10,89,135.00		5,42,69,209.00		6,51,974.00	14,46,109.00
2	E-Journals, Books	4,80,14,457.00	1,28,51,320.00			6,08,65,777.00	4,27,09,520.00	93,18,224.00		5,20,27,744.00		88,38,033.00	53,04,937.00
	Total (C)	10,26,40,640.00	1,31,46,320.00			11,57,86,960.00	9,58,89,594.00	1,04,07,359.00		10,62,96,953.00		94,90,007.00	67,51,046.00
	Grand Total (A+B+C)	81,58,86,317.00	12,78,84,258.00	-	1,27,711.00	94,36,42,864.00	26,40,25,796.00	2,88,63,224.00	78,660.00	29,28,10,360.00		65,08,32,504.00	55,18,60,521.00

(SH. HARI MAUL AZAD)
REGISTRAR
PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024

(SH. HARI MAUL AZAD)



(PROF. B.V. RAMANA REDDY)
I/c DIRECTOR

(PROF. B.V. RAMANA REDDY)

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

SCHEDULE 4B- NON PLAN

S.No.	Tangible Assets Heads	Gross Block				Depreciation for the Year- 2023-24		(Amount in Rupees)	
		ORIGINAL COST	Additions	Adjustment	Deductions	Closing Balance	Depreciation on Opening Balance	Total Depreciation	Net Block
1	Land	-	-	-	-	-	-	-	-
2	Site Development	-	-	-	-	-	-	-	-
3	Buildings	-	-	-	-	-	-	-	-
4	Sports Equipment	-	-	-	-	-	-	-	-
5	Tubewells & Water Supply	-	-	-	-	-	-	-	-
6	Sewerage & drainage	-	-	-	-	-	-	-	-
7	Electrical Installation and equipment	-	-	-	-	-	-	-	-
8	Plant & Machinery	-	-	-	-	-	-	-	-
9	Scientific & Laboratory Equipment	-	-	-	-	-	-	-	-
10	Office Equipment	-	-	-	-	-	-	-	-
11	Audio Visual Equipment	-	-	-	-	-	-	-	-
12	Computers & Peripherals	-	-	-	-	-	-	-	-
13	Furniture, Fixtures & Fittings	-	-	-	-	-	-	-	-
14	Vehicles	-	-	-	-	-	-	-	-
15	Lib. Books & Scientific Journals	-	-	-	-	-	-	-	-
16	Small Value Assets	-	-	-	-	-	-	-	-
17	Stock	-	-	-	-	-	-	-	-
	Project Development (Office Equipment)	-	-	-	-	-	-	-	-
18	Equipment	-	-	-	-	-	-	-	-
19	Audio Visual (CSA)	-	-	-	-	-	-	-	-
20	Computer & Peripherals (CSA)	-	-	-	-	-	-	-	-
21	Electrical Equipments (CSA)	-	-	-	-	-	-	-	-
22	Sports Equipment (CSA)	-	-	-	-	-	-	-	-
23	Furniture & Fixture (CSA)	-	-	-	-	-	-	-	-
24	Small Value Assets (CSA)	-	-	-	-	-	-	-	-
	Total (A)	-	-	-	-	-	-	-	-
25	Capital Work in Progress (B)	-	-	-	-	-	-	-	-

REGISTRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024



I/e DIRECTOR
(PROF. B.V. RAMANA REDDY)

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

SCHEDULE 4 C - INTANGIBLE ASSETS

S.NO	Assets Heads	Gross Block			Depreciation for the Year 2023-24			Net Block	
		Opening Cost	Additions	Deductions	Depreciation / Amortization for the Year	Deductions / Adjustment	Total Depreciation/ Amortization	31.03.2024	31.03.2023
1	Patents & Copyrights	-	-	-	-	-	-	-	-
2	Computer Software	5,46,26,183.00	16,84,748.00	-	17,20,933.00	-	5,49,01,007.00	14,09,924.00	14,46,109.00
3	E- Journals	4,80,14,457.00	1,28,51,320.00	-	93,18,224.00	-	5,20,27,744.00	88,38,033.00	53,04,937.00
	Total	10,26,40,640.00	1,45,36,068.00	-	1,10,39,157.00	-	10,69,28,751.00	1,02,47,957.00	67,51,046.00



(SH. HARI MAUL AZAD)
REGISTRAR

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024

(PROF. B.V. RAMANA REDDY)
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NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

SCHEDULE 4C (i) PATENTS AND COPYRIGHTS

(Amount in Rupees)					
Particulars	Op. Balance	Addition	Gross	Amortization	Net Block 2023-24
A Patents Granted					
1 Balance as on 31.03.24 of Patents obtained in Year _____ (Original Value - Rs..../-)					
2 Balance as on 31.03.24 of Patents obtained in Year _____ (Original Value - Rs..../-)					
3 Balance as on 31.03.24 of Patents obtained in Year _____ (Original Value - Rs..../-)					
4 Patents granted during the Current Year					
Total					

Rs. In Lakhs					
Particulars	Op. Balance	Addition	Gross	Patents Granted/Rejected	Net Block 2023-24
B. Patents Pending in respect of Patents applied for					
1 Expenditure incurred during the Year _____					
2 Expenditure incurred during the Year _____					
3 Expenditure incurred during the Year _____					
Total					
C. Grand Total (A+B)					

Note: The addition in Part A (patents granted), will be the figure of patents granted during the year, transferred from Part B (column - Patents granted/rejected). The amount against grants rejected during the year is written off in the Income and Expenditure Account.

REGISTRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024

I/c DIRECTOR
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NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

SCHEDULE 4D: FIXED ASSETS R&C AND PROJECTS

S.NO	Tangible Assets Heads	Gross Block (ASSETS)				Depreciation for the Year- 2023-24				(Amount in Rupees)	
		Original Cost	Additions	Deductions	CI Balance	Depreciation On Opening Balance	Depreciation for the year	Deductions / Adjustment	Total Depreciation	31.03.2024	31.03.2023
1	Small Value Assets (SMDP)	-	-	-	-	-	-	-	-	-	-
2	Computer & Peripherals (SMDP)	-	-	-	-	-	-	-	-	-	-
3	Laboratory & Scientific Equipments (IMN)	5,00,000.00	-	-	5,00,000.00	-	-	-	-	5,00,000.00	5,00,000.00
4	Laboratory & Scientific Equipments (SRD)	8,40,524.00	-	-	8,40,524.00	-	-	-	-	8,40,524.00	8,40,524.00
	Total	13,40,524.00	-	-	13,40,524.00	-	-	-	-	13,40,524.00	13,40,524.00




I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)


REGISTRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

SCHEDULE 5 : INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS

(Amount in Rupees)		
PARTICULARS	Current Year	Previous Year
1. In Central Government Securities	-	-
2. In State Government Securities	-	-
3. Other Approved Securities	-	-
4. Shares	-	-
5. Debentures and Bonds	-	-
6. Term Deposits with Banks	4,29,01,236.00	4,00,00,000.00
7. Others	-	-
Total	4,29,01,236.00	4,00,00,000.00


REGISTRAR
(SH. HARI MAUL AZAD)


I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024
SCHEDULE 5A: INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS (FUND WISE)

S.No.	Funds	Current Year	Previous Year
1	FDR UNION BANK 526003031043961 (399 Days)	1,67,40,742.00	1,50,00,000.00
2	FDR UNION BANK 526003031043962 (399 Days)	1,11,60,494.00	1,00,00,000.00
3	FDR SBI 40606169177 (3 Years)	1,50,00,000.00	1,50,00,000.00
	Grand Total	4,29,01,236.00	4,00,00,000.00

10/06/24

REGISTRAR
(SH. HARI MAUL AZAD)
PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024




I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

SCHEDULE 6 : INVESTMENTS OTHERS

PARTICULARS	(Amount in Rupees)	
	Current Year	Previous Year
1. In Central Government Securities	-	-
2. In State Government Securities	-	-
3. Other Approved Securities	-	-
4. Shares	-	-
5. Debentures and Bonds	-	-
6. Term Deposits with Banks	87,50,37,066.00	85,21,34,466.00
7. Others (HEFA)	22,91,02,300.00	-
Total	1,10,41,39,366.00	85,21,34,466.00


REGISTRAR
(SH. HARI MAUL AZAD)




I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024

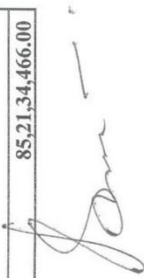
NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

(Amount in Rupees)

S.No.	Funds	Current Year	Previous Year
1	CANARA BANK FDR 3485401000349/7	-	1,57,90,779.00
2	CANARA BANK FDR 3485401000349/8	-	1,58,01,803.00
3	CANARA BANK FDR 3485401000349/9	-	1,05,41,884.00
4	FDR SBI 40517765308	1,50,00,000.00	1,50,00,000.00
5	FDR SBI 40520663355	1,50,00,000.00	1,50,00,000.00
6	FDR SBI 40524029380	1,50,00,000.00	1,50,00,000.00
7	FDR SBI 40524905053	1,50,00,000.00	1,50,00,000.00
8	FDR SBI 40530735217	1,50,00,000.00	1,50,00,000.00
9	FDR SBI 40531763641	1,50,00,000.00	1,50,00,000.00
10	FDR SBI 40535644676	1,50,00,000.00	1,50,00,000.00
11	FDR SBI 40537355808	1,50,00,000.00	1,50,00,000.00
12	FDR SBI 40540757080	1,50,00,000.00	1,50,00,000.00
13	FDR SBI 40543215433	1,50,00,000.00	1,50,00,000.00
14	FDR SBI 40546509166	1,50,00,000.00	1,50,00,000.00
15	FDR SBI 40551322013	1,50,00,000.00	1,50,00,000.00
16	FDR SBI 40553450032	1,50,00,000.00	1,50,00,000.00
17	FDR SBI 40559823805	1,50,00,000.00	1,50,00,000.00
18	FDR SBI 40563495471	1,50,00,000.00	1,50,00,000.00
19	FDR SBI 40565662736	1,50,00,000.00	1,50,00,000.00
20	FDR SBI 40568302190	1,50,00,000.00	1,50,00,000.00
21	FDR SBI 40570979835	1,50,00,000.00	1,50,00,000.00
22	FDR SBI 40573614498	1,50,00,000.00	1,50,00,000.00
23	FDR SBI 40577327487	1,50,00,000.00	1,50,00,000.00
24	FDR SBI 40579911325	1,50,00,000.00	1,50,00,000.00
25	FDR SBI 40582612988	1,50,00,000.00	1,50,00,000.00
26	FDR SBI 40585170284	1,50,00,000.00	1,50,00,000.00
27	FDR SBI 40589288181	1,50,00,000.00	1,50,00,000.00
28	FDR SBI 40592895995	1,50,00,000.00	1,50,00,000.00
29	FDR SBI 40594540484	1,50,00,000.00	1,50,00,000.00
30	FDR SBI 40597223575	1,50,00,000.00	1,50,00,000.00
31	FDR SBI 40599812648	1,50,00,000.00	1,50,00,000.00
32	FDR SBI 40602355838	1,50,00,000.00	1,50,00,000.00



S.No.	Funds	Current Year	Previous Year
33	FDR UNION BANK 526003031043904	-	1,50,00,000.00
34	FDR UNION BANK 526003031043905	-	1,50,00,000.00
35	FDR UNION BANK 526003031043906/526003031044496	1,67,40,742.00	1,50,00,000.00
36	FDR UNION BANK 526003031043908	1,67,40,742.00	1,50,00,000.00
37	FDR UNION BANK 526003031043909	1,67,40,742.00	1,50,00,000.00
38	FDR UNION BANK 526003031043910	1,67,40,742.00	1,50,00,000.00
39	FDR UNION BANK 526003031043912	1,67,40,742.00	1,50,00,000.00
40	FDR UNION BANK 526003031043913/526003031044502	1,67,40,742.00	1,50,00,000.00
41	FDR UNION BANK 526003031043916	1,67,40,742.00	1,50,00,000.00
42	FDR UNION BANK 526003031043918	1,67,40,742.00	1,50,00,000.00
43	FDR UNION BANK 526003031043919	1,67,40,742.00	1,50,00,000.00
44	FDR UNION BANK 526003031043921/526003031044507	1,67,40,742.00	1,50,00,000.00
45	FDR UNION BANK 526003031043923/526003031044509	1,67,40,742.00	1,50,00,000.00
46	FDR UNION BANK 526003031043934	1,67,40,742.00	1,50,00,000.00
47	FDR UNION BANK 526003031043937	1,67,40,742.00	1,50,00,000.00
48	FDR UNION BANK 526003031043938	1,67,40,742.00	1,50,00,000.00
49	FDR UNION BANK 526003031043940/526003031044513	1,67,40,742.00	1,50,00,000.00
50	FDR UNION BANK 526003031043945	1,67,40,742.00	1,50,00,000.00
51	FDR UNION BANK 526003031043947	1,67,40,742.00	1,50,00,000.00
52	FDR UNION BANK 526003031043948	1,67,40,742.00	1,50,00,000.00
53	FDR UNION BANK 526003031043950/526003031044531	1,67,40,742.00	1,50,00,000.00
54	FDR UNION BANK 526003031043952	1,67,40,742.00	1,50,00,000.00
55	FDR UNION BANK 526003031043954	1,67,40,742.00	1,50,00,000.00
56	FDR UNION BANK 526003031043957	1,67,40,742.00	1,50,00,000.00
57	FDR UNION BANK 526003031043960/526003031044540	1,67,40,742.00	1,50,00,000.00
58	FDR UNION BANK 526003031044534	5,50,00,000.00	-
59	FDR HEFA FUND	22,91,02,300.00	-
Grand Total		1,10,41,39,366.00	85,21,34,466.00


I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)




REGISTRAR
(SH. HARI MAUL AZAD)
PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2024

SCHEDULE 7- CURRENT ASSETS

Particulars	(Amount in Rupees)	
	Current Year	Previous Year
1. Stock	15,09,347.00	18,66,463.00
2. Sundry Debtors :		
a) Debts Outstanding for a period exceeding six months		
b) Others : Recovery from Employees	3,600.00	3,600.00
3. Cash and Bank Balances	1,825.00	1,825.00
5,425.00		5,425.00
a) With Scheduled Banks:		
In Current Accounts		
In Term Deposit Accounts	10,000.00	33,05,21,419.00
In Savings Accounts	-	-
In Reserve Bank of India- TSA Accounts	9,84,95,807.00	5,52,55,773.00
	-	-
b) With Non-Scheduled Banks:		
In Term Deposit Accounts		
In Savings Accounts	-	-
4. Post Office- Savings Accounts	-	-
TOTAL	10,00,20,579.00	38,76,49,080.00

Note: Annexure "A" shows the details of Bank Accounts.


REGISTRAR
 (SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024




I/c/DIRECTOR
 (PROF. B.V. RAMANA REDDY)

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

Annexure "A"

(Amount in Rupees)

Particulars	Current Year	Previous Year
I. Current Bank Accounts :		
1. SBI Main Account No. 31091775379	10,000.00	8,36,419.00
2. Canara Bank Account No. 120000388506 (ESCROW 3 HEFA Loan Principal Payment)	-	32,96,85,000.00
3. Canara Bank Account No. 120000391797 (ESCROW 4 HEFA Loan Interest Payment Account)	-	-
4. SBI NSS Account No. 41774172598	-	-
5. UCO Bank Account No. 29100210000595	-	-
6. UCO Bank Account No. 29100210000601	-	-
Total (A)	10,000.00	33,05,21,419.00
II. Term Deposits with Schedule Banks (B)	-	-
III. Saving Bank Accounts :		
1. Indian Bank Account No. 50511577145	44,097.00	42,903.00
2. SBI Main Account No. 37530566069	3,64,08,436.97	1,33,25,891.09
3. SBI Student Fees Account No. 37530602667	4,34,60,127.70	2,80,39,985.60
4. SBI Student Function Account No. 37530603682	7,48,700.75	7,27,041.75
5. SBI TEQIP-III Account No. 37843015175	59,57,354.00	2,20,261.50
6. SBI R&D Account No. 37530603172	1,18,77,091.00	1,28,99,690.00
Total (C)	9,84,95,807.42	5,52,55,772.94
IV. Reserve Bank of India- TSA Accounts :		
1. TSA RBI Account No. 10682501001	-	-
2. TSA RBI Account No. 10687701311	-	-
Total (D)	-	-
TOTAL (A+B+C+D)	9,85,05,807.42	38,57,77,191.94

I/c/DIRECTOR
(PROF. B.V. RAMANA REDDY)

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REGISTRAR
(SH. HARI MAUL AZAD)
PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND

SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2024

SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS

Particulars		Current year	Previous year
1. Advances to employees: (Non- Interest bearing)			
a) Salary	-	-	-
b) Festival	-	-	-
c) Medical Advance	-	-	-
d) Other - For Work Expenses	-	-	-
2. Long Term Advances to employees: (interest bearing)			
a) Vehicle loan	-	-	-
b) Home loan	-	-	-
c) Others (to be specified)	-	-	-
3. Advances and other amounts recoverable in cash or in kind or for value to be received:			
a) On Capital Account	26,78,930.00	26,78,930.00	4,71,78,930.00
b) to Suppliers	-	-	-
c) Others	-	26,78,930.00	-
4. Prepaid Expenses			
a) Insurance	10,823.00	10,823.00	22,541.00
b) Other expenses	47,882.00	47,882.00	19,188.00
5. Deposits			
a) Telephone	13,716.00	13,716.00	13,716.00
b) Lease Rent	-	-	-
c) Electricity	3,82,855.00	3,82,855.00	3,82,855.00
d) AICTE, if applicable	-	-	-
e) Others (to be specified)	1,73,150.00	1,73,150.00	1,68,100.00
6. Income Accrued:			
a) On Investments from Earmarked/ Endowment Funds	11,39,901.00	11,39,901.00	6,35,75,115.00
b) On Investments- Others	6,57,63,270.00	6,57,63,270.00	-
c) On Investments- HEFA Fund	1,93,325.00	1,93,325.00	-
d) On Loans and Advances	-	-	-
e) Other (includes income due unrealized)	-	6,70,96,496.00	31,045.00
7. Other- Current assets receivable from UGC/sponsored projects			
a) Debit balances in Sponsored Projects	-	-	-
b) Debit balances in Sponsored Fellowships & Scholarships	-	-	-
c) Other Receivables	-	-	3,26,873.00
8. Claims Receivable			
a) TDS Receivable	6,69,282.00	6,69,282.00	8,84,624.00
b) TDS Receivable-R&C Projects	61,040.00	61,040.00	28,700.00
TOTAL		7,11,34,174.00	11,26,31,687.00

(PROF. B.V. RAMANA REDDY)

REGISTRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024

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NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2024

SCHEDULE 9- ACADEMIC RECEIPTS

		(Amount in Rupees)	
		Current year	Previous year
FEE FROM STUDENTS			
Academic			
1. Tuition fee		2,46,51,709.00	2,45,49,091.00
2. Library Receipts (Book Bank)		6,79,500.00	4,69,000.00
3. Registration Fees-PhD		2,20,000.00	65,000.00
TOTAL (A)		2,55,51,209.00	2,50,83,091.00
Examination			
1. Application Fees- PhD		54,500.00	80,000.00
2. Examination Fees		9,49,600.00	8,40,000.00
3. PhD Thesis Submission Fees		55,000.00	75,000.00
TOTAL (B)		10,59,100.00	9,95,000.00
Other Fees			
Hostel Fees			
1. Seat Rent		66,05,215.00	40,55,257.00
2. Hostel Receipts		5,33,800.00	5,37,200.00
3. IRG Electricity and Water		41,04,683.00	25,20,100.00
4. Hostel Maintenance Fees		10,67,794.00	9,64,925.00
Misc. Fees			
1. Transcript Fees		57,000.00	19,600.00
2. Convocation Fees		1,87,100.00	2,39,500.00
3. Security Services fees		17,00,864.00	15,90,085.00
4. Duplicate Documents Fees		800.00	1,300.00
5. Education Verification Fees		3,000.00	4,000.00
6. Degree Verification Fees		12,000.00	-
7. Late Fees Charges		1,50,001.00	1,19,300.00
8. Summer Term Fees		15,000.00	-
9. Misc. Academic Income		30,777.00	22,794.00
ID Card Fees		18,000.00	18,200.00
Alumni Association Fees		2,97,500.00	2,65,000.00
Student Related Activity Fees		29,67,500.00	26,25,000.00
Development Fees		39,74,000.00	34,00,000.00
TOTAL (C)		2,17,25,034.00	1,63,82,261.00
Other Academic Receipts			
1. Registration Fees for Workshop, Programmes		43,850.00	-
2. Registration Fees- Others		-	-
TOTAL (D)		43,850.00	-
GRAND TOTAL (A+B+C+D)		4,83,79,193.00	4,24,60,352.00



I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

REGISTRAR
(SH. HARI MAUL AZAD)
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NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31st MARCH, 2024

SCHEDULE 10- GRANTS / SUBSIDIES (IRRECOVERABLE GRANTS RECEIVED)

Particulars	Plan			Total Plan	Non-Plan	Current Year	Previous Year
	Govt. of India	UGC					
		Plan	Specific Schemes				
Balance B/F	40,19,24,303.00	-	-	40,19,24,303.00	-	40,19,24,303.00	36,99,12,502.00
Add: Receipts during the year							
i) Grant-in-Aid (TSA)	34,24,00,000.00	-	-	34,24,00,000.00	-	34,24,00,000.00	27,55,00,000.00
ii) Grant-in-Aid (TSA) for HEFA Principal Repayment	-	-	-	-	-	-	29,67,16,500.00
iii) Grant-in-Aid (TSA) for HEFA Interest Repayment	30,96,920.00	-	-	30,96,920.00	-	30,96,920.00	
Total Receipts during the year	34,54,96,920.00	-	-	34,54,96,920.00	-	34,54,96,920.00	57,22,16,500.00
iv) Grant Receivable by TSA	-	-	-	-	-	-	(30,90,743.00)
v) Interest Earned	11,96,326.00	-	-	11,96,326.00	-	11,96,326.00	45,29,475.00
Total Grant-in-Aid Available	74,86,17,549.00	-	-	74,86,17,549.00	-	74,86,17,549.00	94,35,67,734.00
Less: Refund to MoE (Interest)	45,29,475.00	-	-	45,29,475.00	-	45,29,475.00	2,51,49,636.00
Less: Utilized for Capital expenditure (A)	18,91,38,241.00	-	-	18,91,38,241.00	-	18,91,38,241.00	22,20,14,323.00
Balance	55,49,49,833.00	-	-	55,49,49,833.00	-	55,49,49,833.00	69,64,03,775.00
Less: Utilized for Revenue Expenditure (B)	32,09,80,354.00	-	-	32,09,80,354.00	-	32,09,80,354.00	24,67,26,685.00
Less: Lapsed Grant	3,43,27,831.00	-	-	3,43,27,831.00	-	3,43,27,831.00	4,77,52,787.00
Balance C/F (C)	19,96,41,648.00	-	-	19,96,41,648.00	-	19,96,41,648.00	40,19,24,303.00

A- Appears as addition to capital fund as well as additions to Fixed Assets during the year.

B- Appears as income in the Income & Expenditure Account.

C- (I) Appears under Current Liabilities in the Balance Sheet and will become the opening balance next year.

(II) Represented by Bank balance, Investments and Advances on the assets side.

Note: Unutilized Grant-in-Aid includes CPWD mobilization advance of Rs. 26,78,930/-


REGISTRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024




I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31st MARCH, 2024

SCHEDULE 11- INCOME FROM INVESTMENTS

Particulars	Earmarked/Endowment Funds		Other Investments	
	Current Year	Previous Year	Current Year	Previous Year
1. Interest				
<i>a. On Government Securities</i>	-	-	-	-
<i>b. Other Bonds/Debentures</i>	-	-	-	-
2. Interest on Term Deposits	23,86,965.00	-	5,84,51,604.00	4,46,71,751.00
3. Income accrued but not due on term deposits/ Interest bearing advances to employees	-	-	-	-
4. Interest on Savings Bank Accounts	-	-	-	-
5. Others (Specify)	-	-	-	-
Total	23,86,965.00	-	5,84,51,604.00	4,46,71,751.00
Transferred to Earmarked/Endowment Funds	23,86,965.00	-	-	-
Balance	-	-	5,84,51,604.00	4,46,71,751.00


REGISTRAR
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PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024




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NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULE FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR 31st MARCH, 2024

SCHEDULE 12: INTEREST EARNED

(Amount in Rupees)		
Particulars	Current Year	Previous Year
1. On Savings Accounts with Scheduled banks	15,38,677.00	37,34,222.00
2. On Savings Accounts with Scheduled banks (R&D Account)	59,641.00	-
3. On Loans	-	-
a. Employees/ Staff	-	-
b. Others	-	-
4. On Debtors and Other Receivables	-	-
Total	15,98,318.00	37,34,222.00

Note:

- 1. The amount against item 1, in respect of Bank Accounts of Earmarked/Endowment Funds is dealt with in Schedule 11 (First Part) and Schedule 2.
- 2. Items 2(a) is applicable only if revolving funds have not been constituted for such advances.


REGISTRAR
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PLACE: SRINAGAR GARHWAL
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I/c DIRECTOR
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NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31st MARCH, 2024

SCHEDULE 13 - OTHER INCOME

	Current Year	Previous Year
1. Recruitment Fees	4,57,750.00	5,48,350.00
2. RTI Fees	2,135.00	100.00
3. Tender Fees	9,000.00	35,500.00
4. Sale of Application Form (Recruitment)	-	-
5. Misc. Receipts	49,386.00	4,76,087.00
6. Profit on Sale/ disposal of Assets		
a) Owned assets	31,705.00	-
b) Assets received free of cost	-	-
7. Grants/ Donations from Institutions, Welfare Bodies and International Organizations	-	-
8. License Fee	-	-
9. Others - Forfeiture of Security Deposits	-	-
10. Vendor Registration Fees	6,000.00	-
11. Lab Facility Charges	-	-
12. Notice Pay Received	2,08,637.00	-
13. Sponsorship AIINIT Sports	-	-
14. Excess & Short	-	-
15. Student Medical Insurance Charges	-	-
16. Workshop Fees	-	3,29,260.00
17. Infrastructure Receipts from NTA	28,675.00	2,02,740.00
18. Vehicle Running Income	1,02,489.00	-
Total	8,95,777.00	15,92,037.00



I/c DIRECTOR
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DATED: JUNE 7, 2024

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31st MARCH, 2024

SCHEDULE 14 - PRIOR PERIOD INCOME

(Amount in Rupees)		
Particulars	Current Year	Previous Year
1. Academic Receipts	-	-
2. Income from Investments	-	-
3. Interest earned	-	-
4. Other Income	-	-
Total	-	-


REGISTRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024




I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31st MARCH, 2024

SCHEDULE 15 - STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)

(Amount in Rupees)

Particulars	Current Year		Total	Previous Year		Total
	Plan	Non Plan		Plan	Non Plan	
a) Salaries and Wages	16,90,42,381.00	-	16,90,42,381.00	15,64,36,964.00	-	15,64,36,964.00
Teaching Staff	12,89,98,933.00	-	12,89,98,933.00	11,82,22,504.00	-	11,82,22,504.00
Non-Teaching Staff	3,80,34,715.00	-	3,80,34,715.00	3,64,84,530.00	-	3,64,84,530.00
Earned Leave Encashment	20,08,733.00	-	20,08,733.00	17,29,930.00	-	17,29,930.00
b) Allowances and Bonus	43,04,871.00	-	43,04,871.00	25,49,271.00	-	25,49,271.00
Teaching Staff	-	-	-	-	-	-
Non-Teaching Staff	-	-	-	-	-	-
DA Arrears	28,29,553.00	-	28,29,553.00	18,73,593.00	-	18,73,593.00
Bonus	-	-	-	-	-	-
Cumulative Professional Development Allowance (CPDA)	14,75,318.00	-	14,75,318.00	6,75,678.00	-	6,75,678.00
c) Contribution to Provident Fund	-	-	-	-	-	-
d) Contribution to Other Fund	-	-	-	-	-	-
e) Leave Salary & Pension Contribution	9,98,205.00	-	9,98,205.00	9,67,788.00	-	9,67,788.00
f) Staff welfare Expenses	-	-	-	-	-	-
g) Retirement and Terminal Benefits	8,44,63,825.00	-	8,44,63,825.00	1,86,87,662.00	-	1,86,87,662.00
h) LTC facility	9,04,886.00	-	9,04,886.00	8,66,174.00	-	8,66,174.00
i) Medical facility	51,88,076.00	-	51,88,076.00	26,47,946.00	-	26,47,946.00
Medical And Dispensary	4,65,004.00	-	4,65,004.00	1,77,204.00	-	1,77,204.00
Medical Reimbursement/Healthcare	47,23,072.00	-	47,23,072.00	24,70,742.00	-	24,70,742.00
j) Children Education Allowance	19,83,500.00	-	19,83,500.00	16,22,440.00	-	16,22,440.00
k) Honorarium	-	-	-	60,520.00	-	60,520.00
l) Consultancy/Professional Charges	-	-	-	-	-	-
m) Others (specify)	-	-	-	-	-	-
Total	26,68,85,744.00	-	26,68,85,744.00	18,38,38,765.00	-	18,38,38,765.00

(Signature)

REGISTRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 07, 2024



(Signature)
I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31st MARCH, 2024

SCHEDULE 15 A- EMPLOYEES RETIREMENT AND TERMINAL BENEFITS

SCHEDULE 15 A- EMPLOYEES RETIREMENT AND TERMINAL BENEFITS									(Amount in Rupees)
Particulars	Current Year			Previous Year					
	Pension	Gratuity	Leave Encashment	Total	Pension	Gratuity	Leave Encashment	Total	
Opening balance as on 01.04.2023	-	1,98,823.00	-	1,98,823.00	-	-	-	-	
Addition : Capitalized value of Contributions Received from other Organizations	-	46,652.00	-	-	-	1,98,823.00	-	1,98,823.00	
Total (a)	-	2,45,475.00	-	1,98,823.00	-	1,98,823.00	-	1,98,823.00	
Less: Actual Payment during the Year (b)	-	-	-	-	-	-	-	-	
Balance Available on 31.03.2024 c (a-b)	-	2,45,475.00	-	2,45,475.00	-	1,98,823.00	-	1,98,823.00	
Provision required on 31.03.2024 as per Actuarial Valuation (d)	-	6,43,41,264.00	-	6,43,41,264.00	-	1,98,823.00	-	1,98,823.00	
A. Provision to be made in the current Year (d-c)	-	6,40,95,789.00	-	6,40,95,789.00	-	-	-	-	
B. Contribution to New Pension Scheme	2,03,68,036.00	-	-	2,03,68,036.00	1,86,87,662.00	-	-	-	
C. Medical Reimbursement to Retired Employees	-	-	-	-	-	-	-	-	
D. Travel to Hometown on Retirement	-	-	-	-	-	-	-	-	
E. Deposit Linked Insurance Payment	-	-	-	-	-	-	-	-	
Total (A+B+C+D)	2,03,68,036.00	6,40,95,789.00	-	8,44,63,825.00	1,86,87,662.00	-	-	-	

1. The total (A+B+C+D+E) in this sub schedule will be the figure against Retirement and Terminal Benefits in Schedule 15.
2. Items B,C,D&E will be accounted on accrual basis and will include bills preferred but outstanding for payment on 31/3/2024.


REGISTRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 07, 2024




I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31st MARCH, 2024
SCHEDULE 16 - ACADEMIC EXPENSES

(Amount in Rupees)

Particulars	Current Year		Total	Previous Year		Total
	Plan	Non Plan		Plan	Non Plan	
a) Laboratory Expenses	4,86,194.00	-	4,86,194.00	5,63,530.00	-	5,63,530.00
b) Field work/Participation in Conferences	14,37,657.00	-	14,37,657.00	8,95,464.00	-	8,95,464.00
c) Expenses on Seminars/Workshops	14,50,103.00	-	14,50,103.00	16,97,147.00	-	16,97,147.00
d) Payment to Visiting faculty	-	-	-	-	-	-
e) Examination	8,15,050.00	-	8,15,050.00	6,00,056.00	-	6,00,056.00
f) Student Welfare expenses	-	-	-	-	-	-
g) Admission Expenses	5,836.00	-	5,836.00	8,021.00	-	8,021.00
h) Convocation Expenses	4,05,870.00	-	4,05,870.00	16,37,900.00	-	16,37,900.00
i) PhD Scholars	2,93,61,234.00	-	2,93,61,234.00	2,08,90,332.00	-	2,08,90,332.00
j) Stipend/means-cum-merit Scholarship (M. Tech.)	21,22,188.00	-	21,22,188.00	38,85,537.00	-	38,85,537.00
k) Subscription Expenses	59,000.00	-	59,000.00	-	-	-
l) Other	22,64,772.00	-	22,64,772.00	7,86,348.00	-	7,86,348.00
i) Sports Consumables/Tours	10,65,792.00	-	10,65,792.00	5,60,615.00	-	5,60,615.00
ii) Curriculum Development	8,58,538.00	-	8,58,538.00	-	-	-
iii) Survey & Project Camp	-	-	-	-	-	-
iv) Training & Placement Exp.	3,14,848.00	-	3,14,848.00	1,80,993.00	-	1,80,993.00
v) Training Teachers PhD Tuition Fees	5,000.00	-	5,000.00	20,000.00	-	20,000.00
vi) Student Related Expenses	13,725.00	-	13,725.00	5,600.00	-	5,600.00
vii) NCC/NSS	6,869.00	-	6,869.00	19,140.00	-	19,140.00
Total	3,84,07,904.00	-	3,84,07,904.00	3,09,64,335.00	-	3,09,64,335.00


REGISTRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 07, 2024




I/c DIRECTOR
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NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31st MARCH, 2024

SCHEDULE 17- ADMINISTRATIVE AND GENERAL EXPENSES

(Amount in Rupees)

Particulars	Current year		Total	Previous year		Total
	Plan	Non Plan		Plan	Non Plan	
A. Infrastructure	56,67,973.00	-	56,67,973.00	37,40,533.00	-	37,40,533.00
a) Electricity and power	49,86,214.00	-	49,86,214.00	28,84,959.00	-	28,84,959.00
b) Water charges	4,02,671.00	-	4,02,671.00	3,78,642.00	-	3,78,642.00
c) Insurance	-	-	-	-	-	-
d) Rates and Taxes (including property tax)	6,000.00	-	6,000.00	6,000.00	-	6,000.00
e) Building Rent	-	-	-	2,17,280.00	-	2,17,280.00
f) Generator Running expenses	2,73,088.00	-	2,73,088.00	2,53,652.00	-	2,53,652.00
B. Communication	7,21,561.00	-	7,21,561.00	6,34,907.00	-	6,34,907.00
g) Postage and Telegram	1,02,209.00	-	1,02,209.00	1,23,949.00	-	1,23,949.00
h) Telephone, Fax and Internet Charges	6,19,352.00	-	6,19,352.00	5,10,958.00	-	5,10,958.00
C. Others	4,82,91,155.00	-	4,82,91,155.00	4,54,03,403.00	-	4,54,03,403.00
i) Printing and Stationery (consumption)	-	-	-	-	-	-
ii) Computer Consumables	5,63,189.00	-	5,63,189.00	16,55,083.00	-	16,55,083.00
iii) Printing & Stationary	7,53,592.00	-	7,53,592.00	6,23,603.00	-	6,23,603.00
j) Travelling and conveyance Expenses	13,32,316.00	-	13,32,316.00	10,17,688.00	-	10,17,688.00
k) Hospitality	1,07,205.00	-	1,07,205.00	1,13,468.00	-	1,13,468.00
l) Auditors Remuneration	-	-	-	-	-	-
m) Professional Charges	1,43,257.00	-	1,43,257.00	3,45,000.00	-	3,45,000.00
n) Advertisement and Publicity	24,000.00	-	24,000.00	1,99,176.00	-	1,99,176.00
o) Newspapers & Periodicals (Magazines & Journals)	17,033.00	-	17,033.00	19,693.00	-	19,693.00
p) Others Utilities (Staff Welfare)	-	-	-	-	-	-
i) Security Services	1,79,04,441.00	-	1,79,04,441.00	1,75,18,106.00	-	1,75,18,106.00
ii) Upkeep & Sanitation	1,99,62,291.00	-	1,99,62,291.00	1,88,26,171.00	-	1,88,26,171.00
q) Others	-	-	-	-	-	-
i) NIT Transit House	3,50,000.00	-	3,50,000.00	7,00,000.00	-	7,00,000.00
ii) Other Consumables	3,88,408.00	-	3,88,408.00	4,59,106.00	-	4,59,106.00
iii) Misc. Expenses	10,00,000.00	-	10,00,000.00	560.00	-	560.00
iv) Board & Committee Meeting	11,68,899.00	-	11,68,899.00	8,16,468.00	-	8,16,468.00
v) CRA Service Charges	17,947.00	-	17,947.00	18,717.00	-	18,717.00
vi) Legal Expenses	1,20,521.00	-	1,20,521.00	87,120.00	-	87,120.00
vii) National Events & Celebration	2,86,420.00	-	2,86,420.00	3,24,506.00	-	3,24,506.00
viii) Staff Welfare	6,51,796.00	-	6,51,796.00	9,54,758.00	-	9,54,758.00
ix) Audit Fees	2,810.00	-	2,810.00	-	-	-
x) Office Consumables	-	-	-	-	-	-
xi) Audit Expenses	2,39,328.00	-	2,39,328.00	3,72,056.00	-	3,72,056.00
xii) Other Expenses	14,914.00	-	14,914.00	10,756.00	-	10,756.00
xiii) Horticulture Expenses	-	-	-	23,146.00	-	23,146.00
r) Staff Recruitment	32,42,788.00	-	32,42,788.00	13,18,222.00	-	13,18,222.00
Total	5,46,80,689.00	-	5,46,80,689.00	4,97,78,843.00	-	4,97,78,843.00



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DIRECTOR
(PROF. B.V. RAMANA REDDY)

REGISTRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 07, 2024

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31st MARCH, 2024

SCHEDULE 18 - TRANSPORTATION EXPENSES

(Amount in Rupees)

Particulars	Current Year			Previous year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1. Vehicles (owned by institution)	12,77,074.00	-	12,77,074.00	6,42,506.00	-	6,42,506.00
a) Running Expenses	9,12,112.00	-	9,12,112.00	3,68,074.00	-	3,68,074.00
b) Repairs & Maintenance	3,39,147.00	-	3,39,147.00	2,49,588.00	-	2,49,588.00
c) Insurance Expenses	25,815.00	-	25,815.00	24,844.00	-	24,844.00
2. Vehicles taken on rent/lease	-	-	-	-	-	-
a) Rent/lease Expenses	-	-	-	-	-	-
3. Vehicle (Taxi) Hiring Expenses	-	-	-	24,990.00	-	24,990.00
Total	12,77,074.00	-	12,77,074.00	6,67,496.00	-	6,67,496.00


REGISTRAR
(SH. HARI MAUL AZAD)


I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)



PLACE: SRINAGAR GARHWAL
DATED: JUNE 07, 2024

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULE FORMING PART OF INCOME EXPENDITURE FOR THE YEAR ENDED 31st MARCH, 2024

SCHEDULE 19 - REPAIRS & MAINTENANCE

(Amount in Rupees)

Particulars	Current Year		Total	Previous year		Total
	Plan	Non Plan		Plan	Non Plan	
a) Buildings	28,21,259.00	-	28,21,259.00	5,18,933.00	-	5,18,933.00
i) Civil Maintenance	16,21,825.00	-	16,21,825.00	2,04,592.00	-	2,04,592.00
ii) Electrical Maintenance	5,05,065.00	-	5,05,065.00	2,40,582.00	-	2,40,582.00
iii) Hostel Maintenance	6,94,369.00	-	6,94,369.00	73,759.00	-	73,759.00
iv) Other Maintenance (Sewage & Water pump)	-	-	-	-	-	-
b) Furniture & Fixtures	41,198.00	-	41,198.00	-	-	-
c) Plant & Machinery	1,07,521.00	-	1,07,521.00	9,550.00	-	9,550.00
i) Diesel, Petrol & Oil	-	-	-	-	-	-
ii) Repair of Equipments	1,07,521.00	-	1,07,521.00	9,550.00	-	9,550.00
d) Office Equipment	95,035.00	-	95,035.00	93,982.00	-	93,982.00
e) Computers	67,230.00	-	67,230.00	1,38,348.00	-	1,38,348.00
f) Laboratory & Scientific equipment	34,754.00	-	34,754.00	-	-	-
g) Audio Visual equipment	-	-	-	-	-	-
h) Cleaning Material & Services	-	-	-	-	-	-
i) Hostel Equipments	-	-	-	-	-	-
j) Gardening	-	-	-	-	-	-
k) Estate Maintenance	-	-	-	-	-	-
l) Other (Specify)	-	-	-	-	-	-
m) Website Charges	61,752.00	-	61,752.00	84,635.00	-	84,635.00
n) Sports Equipment	9,530.00	-	9,530.00	18,956.00	-	18,956.00
o) Annual Maintenance Contract (AMC)	4,46,033.00	-	4,46,033.00	93,850.00	-	93,850.00
Total	36,84,312.00	-	36,84,312.00	9,58,254.00	-	9,58,254.00

REGISTRAR
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DATED: JUNE 07, 2024

I/c DIRECTOR
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NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31st MARCH, 2024

SCHEDULE 20 - FINANCE COSTS

Particulars	Current Year		Total	Previous Year		Total
	Plan	Non Plan		Plan	Non Plan	
	Total			Total		
a) Bank charges	28,868.00	-	28,868.00	-	-	22,248.00
b) Other (Interest on Loan)	-	-	-	-	-	-
Total	28,868.00	-	28,868.00	-	-	22,248.00

Note:-If the amount is not material, the head Bank charges could be omitted and these could be accounted as Administrative expenses

REGISTRAR
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PLACE: SRINAGAR GARHWAL
DATED: JUNE 07, 2024



I/c DIRECTOR
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NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31st MARCH, 2024

SCHEDULE 21- OTHER EXPENSES

Particulars	Current Year		Total	Previous Year		Total
	Plan	Non Plan		Plan	Non Plan	
a) Provision for Bad and Doubtful debts/ Advances	-	-	-	-	-	-
b) Irrecoverable Balances Written-off	-	-	-	-	-	-
c) Grants/Subsidies to other institutions/ organizations	-	-	-	-	-	-
d) Other(specify)	-	-	-	-	-	-
Total	NIL	NIL	NIL	NIL	NIL	NIL

REGISTRAR
(SH. HARI MAUL AZAD)
PLACE: SRINAGAR GARHWAL
DATED: JUNE 07, 2024



I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31st MARCH, 2024

SCHEDULE 22: PRIOR PERIOD EXPENSES

Particulars	Current Year		Previous Year		Total
	Plan	Non Plan	Plan	Non Plan	
1 Establishment Expenses	-	-	-	-	-
2 Academic Expenses	-	-	78,559.00	-	78,559.00
3 Administrative Expenses	13,910.00	-	56,27,733.00	-	56,27,733.00
4 Transportation Expenses	-	-	-	-	-
5 Repairs & Maintenance	40,518.00	-	-	-	-
6 Other Expenses	-	-	-	-	-
Total	54,428.00	-	57,06,292.00	-	57,06,292.00

REGISTRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 07, 2024



I/c DIRECTOR
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RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED ON 31 MARCH, 2024					
RECEIPTS	Current Year	Previous Year	PAYMENTS	Current Year	Previous Year
I. Opening Balances			I. Expenses		
a) Cash Balances			a) Establishment Expenses	32,09,80,354.00	1,20,83,273.50
b) Bank Balances			b) Academic Expenses	21,77,56,600.00	58,69,129.00
Current Bank Accounts :			c) Administrative Expenses	3,82,89,773.00	15,49,617.00
1. SBI Main Account No. 31091775379	8,36,419.00	24,38,91,149.74	d) Transportation Expenses	6,02,07,930.00	45,00,364.00
2. Canara Bank Account No. 120000588506 (ESCROW 3)	32,96,85,000.00	4,75,631.00	e) Repairs & Maintenance	12,98,536.00	85,627.00
3. Canara Bank Account No. 120000591797 (ESCROW 4)	-	-	f) Prior period Expenses	33,69,245.00	41,412.00
4. SBI NSS Account No. 41774172598	-	-	g) Finance Cost	29,402.00	31,680.00
5. UCO Bank Account No. 29100210000595	-	-		28,868.00	5,444.50
6. UCO Bank Account No. 29100210000601	-	-			
Saving Bank Accounts :					
1. Indian Bank Account No. 50511577145	42,903.00	41,744.00			
2. SBI Main Account No. 37530560609	1,33,25,891.09	19,18,14,679.17			
3. SBI Student Fees Account No. 37530602667	2,80,39,985.60	3,66,30,587.82			
4. SBI Student Function Account No. 37530603682	7,27,041.75	7,07,738.75			
5. SBI TEQIP-III Account No. 37843015175	2,20,261.50	6,97,333.00			
6. SBI R&D Account No. 37530603172	1,28,99,690.50	1,35,23,436.00			
RBI- TSA Accounts :					
1. TSA RBI Account No. 10682501001	-	-			
2. TSA RBI Account No. 10687701311	-	-			
III.Grants Received			II. Payment against Earmarked/Endowment Funds	16,88,054.00	16,96,622.00
a) From Government of India (Plan Grant)			Capital/Corpus fund	-	1,36,236.00
i. Grant-in-aid for Revenue Expenditure	34,54,96,920.00	57,22,16,500.00			
ii. Grant-in-aid for Capital Expenditure	-	-			
b) From State Government	-	-			
c) From Other sources (details)	-	-			
III. Academic Receipts (from students)			III. Payments against Sponsored Projects/ R&D	75,39,212.50	65,35,524.50
IV. Receipts against Earmarked/ Endowment Funds			IV. Payment against Sponsored Fellowships/Scholarships	5,80,723.00	2,26,40,739.00
V. Receipts against Sponsored Projects/ R&D			V. Investment and Deposits made		
	56,09,196.00	59,11,779.00	a) Investments- Corpus/Capital Funds	5,50,00,000.00	-
			b) Investments- HEFA	55,87,87,300.00	
			c) Investments- Earmarked/Endowment Funds	-	-
VI. Receipts against sponsored Fellowships and Scholarships			VI. Term Deposits with Scheduled Banks	-	-
	13,24,517.00	-		-	-

REGISTRAR
(SH. HARI MAUL AZAD)
PLACE: SRINAGAR GARHW
DATED: JUNE 7, 2024



I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

RECEIPTS	Current Year	Previous Year	PAYMENTS	Current Year	Previous Year
VII. Income on Investment from			VII. Expenditure on Fixed Assets and Capital Works-in-Progress		
a) Earmarked/Endowment funds	-	-	a) Fixed Assets	3,17,41,321.00	-
b) Other Investments	1,55,75,212.00	-	b) Capital Work in Progress (WIP)	11,28,96,920.00	-
VIII. Interest received on			VIII. Other Payments Including Statutory Payments		
a) Bank Deposits	-	-	a) EMD	11,40,510.00	8,77,184.00
b) Loans and Advances	-	-	b) Security Deposit	4,337.00	5,48,675.00
c) Savings Bank Accounts	18,95,141.00	38,04,524.00	c) Statutory Liabilities	32,61,323.22	5,87,96,417.00
			d) Other Liabilities	-	12,13,66,935.70
IX. Investments Encashed			IX. Refunds of Grants		
a) Investments- Corpus/Capital Funds	7,21,34,466.00	-	a) Plan Grant (Including Refund of Interest on GIA)	3,88,57,306.00	7,29,02,423.00
b) Investments- HEFA	32,96,85,000.00	-	b) Project Grant (R&C)	11,66,813.00	-
c) Investments- Earmarked/Endowment Funds	-	-			
X. Term Deposit with Scheduled Banks encashed			X. Deposits and Advances		
	-	-	a) Deposited from Students	1,69,45,449.50	1,63,00,793.72
	-	-	b) Recoverable Advance	24,79,442.00	-
	-	-		3,15,749.00	24,79,21,989.94
XI. Other Income (including prior period income)	3,68,499.90	5,06,773.60	XI. Other Payments		
XII. Deposits and Advances			XII. Closing balances		
a) Security Deposit	4,337.00	81,860.00	a) Cash in hand	-	-
b) EMD	13,76,530.00	11,12,884.00	b) Bank Balances		
c) Deposits from Students	20,54,052.70	60,369.00	Current Bank Accounts:		
d) Recoverable Advances	6,35,687.00	6,07,975.00	1. SBI Main Account No. 31091775379	10,000.00	8,36,419.00
			2. Canara Bank Account No. 120000588506 (ESCROW 3)	-	32,96,85,000.00
XIII. Miscellaneous Receipts including			3. Canara Bank Account No. 120000591797 (ESCROW 4)	-	-
Statutory Receipts	2,43,030.00	2,04,116.00	4. SBI NSS Account No. 41774172598	-	-
XIV. Any Other Receipts			5. UCO Bank Account No. 29100210000595	-	-
Other Receipts	26,73,000.32	4,07,97,221.00	6. UCO Bank Account No. 29100210000601	-	-
CSAB Fund	-	10,06,580.00	Saving Bank Accounts:		
Provisions	-	54,000.00	1. Indian Bank Account No. 50511577145	44,097.00	42,903.00
XV. Refund of Advances			2. SBI Main Account No. 37530566069	3,64,08,436.97	1,33,25,891.09
	-	7,83,369.46	3. SBI Student Fees Account No. 37530602667	4,34,60,127.70	2,80,39,985.60
	-	-	4. SBI Student Function Account No. 37530603682	7,48,700.75	7,27,041.75
	-	-	5. SBI TEQIP-III Account No. 37843015175	59,57,354.00	2,20,261.50
	-	-	6. SBI R&D Account No. 37530603172	1,18,77,091.00	1,28,99,690.50
	-	-	RBI- TSA Accounts:		
	-	-	1. TSA RBI Account No. 10682501001	-	-
	-	-	2. TSA RBI Account No. 10687701311	-	-
TOTAL	1,25,18,90,621.64	94,75,84,005.80	TOTAL	1,25,18,90,621.64	94,75,84,005.80


I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)







REGISTRAR
(SH. HARI MAUL AZAD)
PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024

SCHEDULES FORMING PART OF THE ACCOUNTSSCHEDULE: 23SIGNIFICANT ACCOUNTING POLICIES1. 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. REVENUE RECOGNITION

2.1 Fees from Students (except Tuition Fees), Sale of Admission Forms, Royalty and Interest on Savings Bank Accounts are accounted on cash basis. Tuition Fees are collected separately for each semester is accounted on accrual basis.

2.2 Income from Interest on Investments is accounted on accrual basis.

3. FIXED ASSETS AND DEPRECIATION

3.1 Fixed assets are stated at cost of acquisition including inward freight, duties and taxes and incidental and direct expenses related to acquisition, installation and commissioning.

3.2 The institute adopted Straight Line Method for writing off Depreciation as required in the revised format. The revised rate of Depreciation now prescribed is adopted as per MoE letter no. 29-4/2012-IFD dated 17th April 2015. The rates are as follows:

Tangible Assets

1. Land
2. Site Development
3. Buildings
4. Roads & Bridges

0%
0%
2%
2%



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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. Library Books & Scientific Journals	10%

Intangible Assets (amortization):

1. E-Journals	40%
2. Computer Software	40%
3. Patents and Copyrights	9 years

3.3 Depreciation is provided for the whole year on additions during the year.

3.4 Where an asset is fully depreciated, it will be carried at a residual value of Rs.1 in the Balance Sheet and will not be further depreciated. Thereafter, depreciation is calculated on the additions of each year separately at the rate of depreciation applicable for the asset head.

3.5 Assets created out of Earmarked Funds and funds of Sponsored Projects, where the existence of such assets vests in the Institution, are setup by credit to respective Project Fund. 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.

3.6 Assets, the individual value of each of which is Rs.2,000/- or less (except Library Books) are treated as Small Value Assets, 100% depreciation is provided in respect of such assets at the time of their acquisition. However physical accounting and control continued by the holders of such assets.



4. INTANGIBLE ASSETS

4.1 E-Books/Journals and Computers Software are grouped under Intangible Assets.

4.2 Electronic Books/Journals (E- Books/Journals) are separated from library Books in view of the limited benefit that could be derived from the on line access provided. E-journals are not in a tangible form, but temporarily capitalized and in view of the magnitude of expenditure and the benefit derived terms of perpetual knowledge acquired by the Academic and Research Staff; Depreciation is provided in respect of E- journals at a higher rate of 40% as a higher rate of 40% as against depreciation of 10% provided in respect of Library Books.

4.3 Expenditure on acquisition of software has been separated from computers and peripherals, as apart from being intangible assets, the rate of obsolescence in respect of these is very high.

Depreciation is provided in respect of software at a higher rate of 40 % as against depreciation of 20% provided in respect of Computers & Peripherals.

5. STOCKS

Expenditure on purchase of chemicals, glassware and other consumable store is accumulated as revenue expenditure, except that the value of closing stock held on 31st March 2024 is setup as closing stock by reducing the corresponding revenue expenditure based on information obtained from Store Section. They are valued at cost.

6. RETIREMENT BENEFITS

6.1 The Institute has prepared separate Annual Accounts of NPS/GPF as on 31st March 2024 as per the format of financial statements for Central Higher Educational Institutions.

6.2 Employee benefits under defined contribution plans comprising GPF are recognized and charged to revenue based on actual liabilities.

6.3 The Institute has made the provision of Rs. 6,40,95,789.00 for retirement benefits i.e. Gratuity on actuarial basis under AS-15 as on 31st March 2024. The amount of Rs. 46,652.00 is received during the year against gratuity contribution from AIIA, Delhi. Total provision of gratuity (including opening balance of Rs. 1,98,823.00) as on 31.03.2024 as per actuarial report has comes to Rs. 6,43,41,264.00



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7. INVESTMENTS

Institute has invested the temporary surplus funds as per the directives and guidelines of Govt. of India on the subject. Investments are stated at cost. However, any interest accrued in their value as on the date of the Balance Sheet is provided for.

8. DESIGNATED/EARMARKED/ENDOWMENT FUNDS

8.1 This Fund is created from designated fees received from the students for the exclusive purpose of student specific activities.

8.2 Fees received from students as Student Activity Fees and Alumni Fees are also accounted under Student Activity Fund and Alumni Fund respectively which is shown under Designated/Endowment Fund (Schedule 2 and Sub-Schedule 2A).

8.3 Funds received from the scheme of direct admission of students abroad- DASA (SAARC/NON-SAARC countries) from MoE are classified as Earmarked Fund in view of the conditions attached for expenditure therefrom.

8.4 Funds received from CSAB/CCMT/Centralized Counseling for B.TECH./M.TECH./M.ARCH./ M.PLAN admissions used for the admission counseling of students for allocation of seats for Bachelor/PG courses.

8.5 MGNREGA funds received from Department of Rural Development, Uttarakhand Government which is utilized for Time and Motion Study under MGNREGA.

9. CORPUS FUND

This fund is in the nature of Endowment Fund created out of IRG and other designated and set aside funds. During the current year the amount of Rs. 2.81 crores is set aside from surplus and transferred to Corpus/Capital Fund. No part of Grant-in-aid is included in the Surplus.



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10. GOVERNMENT GRANTS

Grant-in-aid is sanctioned as grant for acquisition of capital assets, general activity and for salary. It is further divided into grant for SC & ST promotions. Therefore, the Grant is accounted for the classification in which the same is sanctioned. The expenditure from these Grants is appropriated in proportion to the ratio of number of SC and ST students to the aggregate number of students. Thus, Salary and General Grant is appropriated and depicted as Income in the Income and Expenditure account and charged off from Grant Account. Similarly, expenditure on account of acquisition of assets is charged off in Grant Account in the same proportion (SC/ST students: Aggregate number of Students) and transferred to Capital Account. The remaining amount either Surplus or Deficiency is indicated as Current Liability under the head Unutilised Grant in Schedule 3 of Balance Sheet as per MoE guidelines.

11. SPONSORED PROJECTS

11.1 In respect of ongoing sponsored projects, the amount received from the sponsors are shown under Current Liabilities & Provisions (Schedule 3 and Sub-Schedule 3A).

11.2 Some Scholarships paid from the sponsor's agency are accounted in the same way as sponsored projects.

12. INCOME TAX

The income of the Institution is exempt from Income Tax under Section 10 (23C)(iiiab) of the Income Tax Act. No provision for Income Tax is therefore made in the accounts.


REGISTRAR
(Sh. HARI MAUL AZAD)




I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

PLACE: SRINAGAR GARHWAL
DATED: June 7, 2024

SCHEDULE : 24

CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS

1. CONTINGENT LIABILITIES

As on 31st March 2024 there is no Contingent Liabilities pending on account of Court Cases and other circumstances.

2. CAPITAL COMMITMENTS

The value of contracts remaining to be executed on Capital Account and not provided for (Net of Advances) amounted to Rs. 979.00 lakhs and Rs. 2196.00 lakhs for construction at Srinagar Campus Phase-I and Phase-II respectively as on 31st March, 2024.

3. FIXED ASSETS

3.1 Additions to Fixed Assets in schedule 4 includes assets purchased out of Scheme 3670 - Grant-in-Aid for National Institute of Technologies and IEST significantly and out of Institute Funds.

3.2 Fixed Assets as set out in Schedule 4 do not includes assets purchased out of funds of sponsored projects, held and used by the institute, as project contracts includes stipulations that all such assets purchased out of projects funds will remain the property of the sponsors, until and unless the sponsors transfer the same to the Institute. Such Assets are retained in the Departments to be utilized for research activities. The details of such assets are shown in schedule 4D.

4. DONATED BOOKS

4.1 The Institute has received donated books amounting Rs. 29,664.00 from donation. The necessary entries of the donated books have also been done in accession register of Library.



5. CURRENT LIABILITIES & PROVISIONS

- 5.1 The amount of Rs. 25,78,965.00 is shown as Deposit-Others of Current Liabilities & Provisions (Schedule 3) which is received against Security Deposits, Earnest Money and Performance guarantee accepted from vendors.
- 5.2 Unspent balance of Grant-in-aid is shown under the head unutilized grants. The amount does not include IRG.

6. EXPENDITURE IN FOREIGN CURRENCY

During the year Institute has made transactions of US DOLLARS \$ 8800/- which is recorded at INR Rs. 7,60,076.00 (including bank charges) transactions denominated in foreign currencies are recorded at the exchange rate prevailing on the date of transaction/GOC Rates/Bank Rates as the case may be.

a. Travel	:	Nil
b. Foreign Drafts for import of chemicals etc.	:	Nil
c. Others.	:	Rs. 7,60,076.00

7. CURRENT ASSETS, ADVANCES AND DEPOSITS

These Current Assets, Advances and Deposits have a value on realization in the ordinary course equal at least to the aggregate amount shown in the Balance Sheet.

Prepaid Expenses amounting to Rs. 58,705.00 have been incurred during the year.

8. R&D AND PROJECT ACCOUNTS

Separate Schedules for R&D and Projects (Schedule 2A and Schedule 4D & 7A) shown in Balance Sheet of previous year have been consolidated in current year as per the format of financial statements for Central Higher Educational Institutions.

9. PRIOR PERIOD EXPENSES

During current year, an amount of Rs. 54,428.00 is shown under Prior Period Expenses (Schedule 22) which is related to previous years.



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10. LAST YEAR SAR OBSERVATIONS AND ACTIONS TAKEN THEREON:**Capital/Corpus Fund (Schedule 1)-Balance Sheet**

The stock entry of Rs. 1.89 lakhs has been done by Store Section in current financial year 2023-24 which is shown under the head Fixed Assets (Schedule 4).

Other Income (Schedule 13)- Income & Expenditure Account

Workshop fee is now shown under the head Academic Receipts (Schedule 9) in current financial year 2023-24.

General- Donated Books

The necessary entries of the donated books amounting Rs. 29,664.00 have been done in accession register of Library and also disclosed in Notes to Accounts in current financial year 2023-24.

Designated/Earmarked/Endowment Funds (Schedule 2)-Balance Sheet

The income earned from Investments of Earmarked/Endowment Fund has been shown separately under Schedule 11 and Schedule 2.

Investment- Others (Schedule 6)-Balance Sheet

The investment made from other funds has been shown separately under Schedule 6.

Closing Balance bifurcation (Schedule 2)-Balance Sheet

The closing balance under "Designated/Earmarked/Endowment Fund (Schedule 2)" is bifurcated into "Investment, Cash & Bank Balance and Interest accrued but not due" as per format of financial statements for Central Higher Educational Institutions.

Separate Annual Accounts of NPS/GPF

The separate Annual Accounts of NPS/GPF in current financial year 2023-24 has been prepared.

Provision for Retirement Benefits

The provision for retirement benefits i.e. Gratuity on actuarial basis as required under AS-15 has been made which is shown under Schedule 3 of Balance Sheet and Schedule 15A of Income & Expenditure Account in current financial year 2023-24.



11. Figures in the final accounts have been rounded off to the nearest rupee wherever it was necessary.

12. Schedules 1 to 24 are annexed to and form an integral part of the Balance Sheet at 31st March 2024 and the Income & Expenditure account for the year ended on that date.


REGISTRAR
(Sh. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: June 7, 2024


I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)



NATIONAL INSTITUTE OF TECHNOLOGY UTTARAKHAND
NPS TIER-I ACCOUNT
BALANCE SHEET AS AT 31st MARCH, 2024

Liabilities		Amount	Assets	Amount
NPS Tier -I Account				
Opening Balance	26,21,724.00	-	Subscription and Contribution due for March 2024	32,67,482.00
Add: Subscription in the year	3,50,52,552.00	-	-	
Add: Interest Credited	-	-	-	
Less : Transferred To NSDL	3,43,83,874.00	-	Investment	
Less : Transferred To Corpus Fund	-	-	-	
Add: Subscription for March 2024	32,67,482.00	65,57,884.00	-	
Excess of Income Over Expenditure	-	-	Balance at Institute Bank :	32,90,402.00
	-	-	Employer's Contribution (Rs. 19,00,474.00)	
	-	-	Employees Contribution (Rs. 13,89,928.00)	
TOTAL		65,57,884.00	TOTAL	65,57,884.00


REGISTRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024


I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)



NATIONAL INSTITUTE OF TECHNOLOGY, SRI NAGAR UTTARAKHAND
NPS TIER-I ACCOUNT
INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31ST MARCH, 2024

Expenditure	Amount	Income	Amount
Interest Credited to subscriber's Account	0.00	Interest earned on Investment	0.00
Bank Charges	0.00		
		Less : Interest Accrued on March 2023	0.00
Excess of Income Over Expenditure	0.00	Interest Accrued but not Due	0.00
TOTAL	0.00	TOTAL	0.00

REGISTRAR
(SH. HARI MAUL AZAD)

PLACE: SRINAGAR GARHWAL
DATED: JUNE 7, 2024

I/c DIRECTOR
(PROF. B.V. RAMANA REDDY)

NATIONAL INSTITUTE OF TECHNOLOGY UTTARAKHAND
NPS TIER-I ACCOUNT
RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDED ON 31ST MARCH, 2024

Receipts	Current Year	Payment	Current Year
Opening Balance as on 01.04.2023	26,21,724.00	Investment	
NPS Tier-I Account		Transfer to NSDL	3,43,83,874.00
		Transfer to Corpus Fund	
Own Subscription	1,46,24,180.00		
Institute Contribution	2,04,28,372.00		
		Closing Balance as on 31.03.2024:	32,90,402.00
Interest received on Investment	-	Employer's Contribution (Rs. 19,00,474.00)	
Interest on Saving Bank A/c	-	Employees Contribution (Rs. 13,89,928.00)	
Investment Encashed	-		
Interest Received	-		
TOTAL	3,76,74,276.00	TOTAL	3,76,74,276.00


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DATED: JUNE 7, 2024

**SHANKAR SHUKLA & CO.**
Chartered Accountants

OFFICE: D2/350, Sector – D, LDA Colony Kanpur Road Lucknow (PIN 226012)
Branch: C/O Sunil Chandra Shukla, Vivek Vihar, Balawala, Dehradun (PIN 248001)
Mob : 9936034812, 9682789044 E-MAIL: cashankar1981@gmail.com

To,
The Registrar,
National Institute of Technology Uttarakhand,
Srinagar (Garhwal), Uttarakhand

Dear Sir,

Re: Accountant's Report on the Compilation of Financial Statements of **National Institute of Technology, Uttarakhand, Srinagar (Garhwal), Uttarakhand** for the year ended 31 March 2024.

We have Compiled the attached Balance Sheet of **National Institute of Technology Uttarakhand, Srinagar (Garhwal), Uttarakhand** as at 31 March 2024 and related Income & Expenditure Account along with Receipts & Payments Accounts for the year ended on that date annexed thereto.

These financial statements are the responsibility of the management. The management is responsible for:-

- i. Completeness and accuracy of the underlying data and complete disclosure of all material and relevant information to the accountants.
- ii. Maintaining adequate accounting and other records and internal control and selecting and applying appropriate accounting policies.
- iii. Preparation and presentation of financial statements in accordance with the applicable laws and regulations, if any.
- iv. Establishing controls to safeguard the assets of the entity and preventing and detecting frauds or other irregularities:
- v. Establishing controls for ensuring that the activities of the entity are carried out in accordance with the applicable laws and regulations and preventing and detecting any non-compliance.

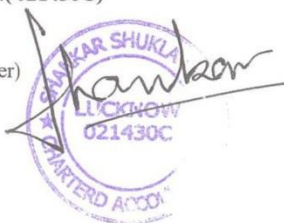
The compilation engagement was carried out by us in accordance with the Standard on Related Services (SRS)4410, "Engagements to compile Financial Information", issued by the ICAI. We report that:-

- 1) The statement of accounts dealt with this report are in agreement with the books of account.
- 2) We have not audited or reviewed these financial statements and accordingly express no opinion thereon.

For –

SHANKAR SHUKLA & CO. (021430C)
Chartered Accountants

CA Shankar Shukla (Partner)
M.No.430710
Place: Lucknow
Date: 07/06/2024



✓ Separate Audit Report of the Comptroller & Auditor General of India on the accounts of
National Institute of Technology, Uttarakhand for the year ended 31 March, 2024

We have audited the attached Balance Sheet of the National Institute of Technology, Uttarakhand, Srinagar, (Institute) as at 31 March, 2024, Income & Expenditure Account and Receipts & Payments Account for the year ended on that date under Section 19(2) of the Comptroller and Auditor General's (Duties, Powers & Conditions of Services) Act, 1971 read with Section 22(2) of the National Institutes of Technology Act, 2007 as amended in 2012. These financial statements are the responsibility of the Institute's Management. Our responsibility is to express an opinion on these financial statements based on our audit.

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

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

4. Based on our audit, we report that:

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

(ii) The Balance Sheet, Income & Expenditure Account and Receipts & Payments Account dealt with by this report have been drawn up in the format of financial statements for

Central Higher Educational Institutions (Format) approved by the Ministry of Human Resources Development.

(iii) In our opinion, proper books of accounts and other relevant records have been maintained by the Institute as required under Section 22(1) of the National Institutes of Technology Act, 2007 as amended in 2012, in so far as it appears from our examination of such books.

(iv) We further report that:

(A) Balance sheet

Investment Others (Schedule-6)

Rs. 110.41 crore

The above includes Rs. 87.50 crore of 'Term deposit with Banks'. Whereas as per the 'Format', the same should have been included under 'Current Assets' (Schedule-7). This resulted into understatement of 'Current Assets' (Schedule-7) and overstatement of 'Investment Others' (Schedule-6) by Rs. 87.50 crore.

(B) Significant Accounting policy (Schedule-23)

The annual subscription charges for e-journals spanning over different financial year but their validity expires in one years, needs to be accounted properly after considering prepaid expenses/prior period expenses. The Institute needs to reconsider the accounting policy for e-journals accordingly.

(C) Notes on Accounts (Schedule-24)

(C.1) The Institute needs to host information such as no. of students, no. of teachers etc. as per Schedule-24 of the MHRD format and disclose it under Notes to Account.

(C.2) The Institute needs to disclose contingent liability under Schedule-24 which may arise in future out of court cases.

(C.3) The Institute needs to disclose the Assets out of Sponsored projects under Notes to Accounts.

(D) General

(D.1) The Institute has depicted the security deposit as Rs. 3.83 lakh instead of Rs. 7.53 lakh, thus the security is short depicted by Rs. 3.70 lakh. The Institute needs to rectify and incorporate it suitably.

(D.2) The Institute needs to reconcile the amount shown under 'Capital works in progress' with amount shown in monthly progress report given by CPWD.

(D.3) The Institute has not depicted depreciation on the fixed assets included in Schedule-4D.

(D.4) The Institute has not made the provision of Leave Encashment and Pension under Retirement Benefits on actuarial basis which is in contravention of As 15 as well as format of accounts.

(E) Grants-in-aid

The Institute received Grants-in-aid of Rs. 34.55 crore from Ministry of Education during the year 2023-24. Further, the institute earned interest of Rs. 00.12 crore during the year. After taking into account the opening balance of Rs. 40.19 crore the total funds available worked out to be Rs. 74.86 crore. Out of which the Institute utilised a sum of Rs. 51.01 crore and refunded Rs. 3.89 crore thus leaving a balance of Rs. 19.96 crore as at 31 March, 2024.

(v) Subject to our observation in the preceding paragraphs, we report that the Balance Sheet and Income and Expenditure Account dealt with by this report are in agreement with the books of accounts.

(vi) In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts, and subject to the significant matters stated above and other matters mentioned in Annexure to this Audit Report give a true and fair view in conformity with accounting principles generally accepted in India:

a. In so far as it relates to the Balance Sheet, of the state of affairs of the National Institute of Technology, Uttarakhand as at 31 March, 2024; and

b. In so far as it relates to Income & Expenditure Account of the 'surplus' for the year ended on that date.

For and on behalf of the C&AG of India

Date: 25.10.2024

Place: Lucknow

Danraj Kumar
Principal Director of Audit (Central)

Annexure

1. Adequacy of Internal Audit System

The Institute does not have its own Internal Audit wing and the internal audit of the Institute was not conducted since the year 2016-17.

2. Adequacy of Internal Control System

Internal Control System of the Institute reflected following deficiencies:

- Out of 181 sanctioned posts there are 57 posts vacant.
- The Institute has booked amount for purchase of batteries under Repair & Maintenance head instead of fixed Assets.
- Insurance of three vehicles was not done timely.
- Registers of Fixed Assets/Consumable Items are not prepared in the format as prescribed under GFR 2017.

3. System of Physical Verification of fixed assets

Physical verification of fixed assets has been conducted for the year 2023-24.

4. System of Physical Verification of Inventory

Physical verification of inventory has been conducted for the year 2023-24.

5. Regularity in Payment of statutory dues

The Institute is regular in payment of statutory dues.

Jamita
25.10.24
Director (CE)