

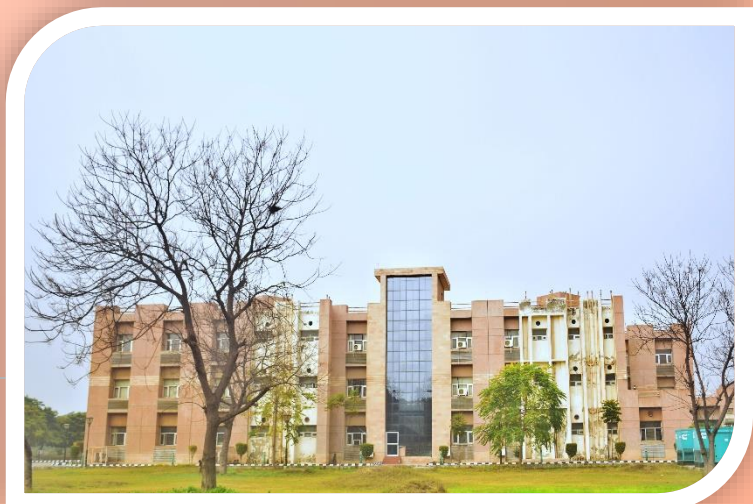
INFORMATION BROCHURE

2024-25



**DR B R AMBEDKAR
NATIONAL INSTITUTE OF TECHNOLOGY
JALANDHAR, PUNJAB, INDIA**

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FROM THE DIRECTOR'S DESK



Leading Dr. B R Ambedkar National Institute of Technology (NIT) Jalandhar is an esteemed privilege, overseeing an institution of national renown and exceptional academic prowess. NIT Jalandhar is ranked 46th in the National Institutional Ranking Framework (NIRF-2023), Band-Excellent in the Atal Ranking of Institutions on Innovation Achievements (ARIIA), and was recently ranked in the 1001-1200 range in the Times Higher Education (THE) Emerging Economies University Rankings 2023. These achievements are a testament to the responsive leadership, unwavering commitment of our faculty and staff, and the relentless efforts of our students. Even amidst the unprecedented challenges posed by the pandemic, the Institute remained steadfast in its mission to create and disseminate knowledge.

As we reflect on our journey thus far and celebrate our milestones, it is imperative that we also set our sights on the future and equip ourselves to tackle forthcoming challenges. Our foremost priorities include embracing the principles outlined in the New Education Policy (NEP), fostering interdisciplinary research, strengthening ties between academia and industry, exploring new frontiers of knowledge, and enhancing resource generation through knowledge transfer.

In a world characterized by constant change, NIT Jalandhar provides students with a robust foundation for their professional endeavors, encouraging them to integrate their intellect, creativity, and empathy to address societal challenges. Students bear the dual responsibility of personal transformation and addressing the complexities of our society. I urge them to seize the opportunity afforded by their time at the Institute to pursue holistic growth, keeping their curiosity alive and embracing experimentation.

Our alumni remain deeply invested in the progress of the Institute, and I call upon them to contribute through reverse mentoring, infusing their alma mater with enthusiasm and vigor.

Lastly, as we honor the legacy of Dr. B R Ambedkar, let us heed his timeless mantra of 'educate, agitate, and organize.' Let us educate society to foster myriad ideas for the betterment of humanity. Let these ideas collide and evolve into new syntheses, embodying the essence of a Higher Education Institute.

With the collective support and dedication of our stakeholders, I am confident that we will continue to scale new heights, empower our youth to realize their aspirations, and propel NIT Jalandhar towards unprecedented success.

I extend a warm welcome to all at NIT Jalandhar and eagerly await your innovative contributions towards enhancing the quality of education and learning in the fields of engineering, science and management. As you embark on this journey, I encourage you to set ambitious goals for yourself and strive for excellence in everything you do. Take ownership of your education, be proactive in seeking out opportunities for growth, and never hesitate to ask for help when you need it. Remember that you are capable of achieving great things, and we are here to support you every step of the way. Once again, welcome to NIT Jalandhar. We are thrilled to have you as part of our community, and I wish you all the best as you begin this exciting journey

Jai Hind!

Jai Bharat!

Prof Binod Kumar Kanaujia
Director



From the Registrar's Desk

To my mind, an educational institute is not just about bricks, mortar and concrete, but about building character, enriching minds and about enriching experiences that lasts a lifetime.

Life is not a set of instructions but is a series of experiences and learning process. Engineering is no exception. This is where NITJ steps in – to make a difference and where learning is not just series of instructions but a passion, which goes beyond books, beyond instructions, beyond learning horizons.

We, at NITJ, always aim to create a dynamic and synergistic center of excellence empowering young minds to attain global competencies. We firmly believe: “Education cannot be imposed on the pupil, but a “desire” to learn should be awakened first”. Learning is something happening inside YOU that awakens the mind, flexes your mental powers, sensitizes your awareness, arouses your appreciation, and raises your sights and your insights. It spurs your ambition to erase your mistakes of the past, and to crown what others have accomplished.

At NITJ, we believe in learning by capturing set of experiences and enable one to explore new realms of wisdom.

Our mission is to train and develop professionals in positive, healthy and vibrant environment so that the idea can be converted into action. We impart the best of the knowledge to our students with well-equipped extracurricular and emotional quotient related inputs, and the desire and ability to learn, lead and excel in making them responsible and respected citizens.

The unified diversity element among student projects the integrated spectrum of prototype India as most of the students belong to the states of differing language and local culture gather with single minded focus to succeed in life.

With a student strength of 5500 plus for Engineering, Applied Sciences, Humanities & Management, Master of Business Administration, B.Sc. B.Ed , M Tech & PhD, the efforts are directed to accommodate and address the expectations of each student by the way of enabling them to participate in the seminars, workshops organized in and out of the institute.

The institute is also engaged in supporting the students to refine the necessary skills, attitudes and the aptitude towards the corporate placement process in the campus by the way of periodical competitive tests and group interaction exercises.

All these efforts are pursued assiduously to identify the functional gaps between NITJ and the premier institutions of the country like IIT's so as to narrow them as soon as possible. The institution has taken a great leap forward in the past few years and the results are encouraging.

Prof Ajay Bansal



Dean Academics

It is a matter of great pride that Dr B R Ambedkar National Institute of Technology Jalandhar is on the path of tremendous growth with its remarkable achievements. Be it an efficient teaching learning environment or collaborative research endeavors, the institute is on a path of steady progress.

In the year 2023, the Institute has re-entered into the club of top 50 engineering Institutes of the country and is ranked 46th in prestigious NIRF ranking, 72nd in overall top 100 Institutes/Universities, and 9th amongst all 31 NITs. NIT Jalandhar has rigorously implemented the principles of NEP 2020, leading to its selection among the 4 NITs pioneering a 4-year integrated BSc. B.Ed. program. The institute has successfully commenced several new courses in B.Tech and M.Tech which are receiving overwhelming responses. These include B.Tech in Data Science and Engineering, Electronics and VLSI

Engineering and M.Tech programs in Data Science, Data Analytics, Industrial Engineering and Data Analytics, Manufacturing technology and Machine Learning, Signal processing and Machine Learning, Electric Vehicle Design.

The institute is going to start a new B.Tech program in Mathematics and Computing, M.Tech in Mathematics and Computing, M.Tech in Machine Learning and Automation from the academic year 2024. M.Tech programs are now open to students from all undergraduate streams, aligning with the concept of multidisciplinary education outlined in NEP guidelines. To strengthen collaborations and encourage students to take up higher studies, an integrated B.Tech MBA program of 5 years has been started jointly with IIM Amritsar.

Furthermore, final-year students from NIT Jalandhar are now eligible for direct PhD admission at various IITs, further enriching their academic opportunities. Over the years, we have made remarkable progress in various areas, including infrastructure, teaching-learning, research, and placements. The student body is growing and the number of seats has been increased in response to the growing job demand and aspirations of our students. The under graduate curriculum has been revised and restructured in order to equip students with industry relevant skills and make them capable of solving real-world problems with innovative solutions. The process of reskilling and upskilling will not only strengthen their learning but will also lead to a more holistic and multidisciplinary approach of education.

I wish all the prospective students of NIT Jalandhar a bright future ahead as they embark upon their professional journey.

Prof Raman Bedi



Dean Student Welfare

I am delighted to extend a heartfelt welcome to you as you embark on this exciting journey at NITJ! As the Dean of Student Welfare, it is my privilege to welcome you to our vibrant and inclusive community.

Starting university marks a significant milestone in your life, filled with opportunities for growth, discovery, and personal development. Here at NITJ, we are committed to ensuring that your experience is not only academically enriching but also supportive and fulfilling in every aspect. Your well-being and success are our top priorities, and our dedicated team of staff and faculty members are here to provide you with the resources, support, and guidance you need to thrive during your time with us. Whether you have questions about academic support services, campus facilities, student organizations, or simply need someone to talk to, please know that our doors are always open, and we are here to assist you in any way we can.

At NITJ, we take pride in our diverse and inclusive community, where every individual is valued and respected. I encourage you to embrace this diversity, engage with your peers from different backgrounds, and seize the opportunity to learn from one another. By fostering meaningful connections and friendships, you will not only enrich your university experience but also contribute to creating a more inclusive and supportive campus environment for all.

Moreover, you'll be pleased to know that the institute boasts excellent indoor and outdoor sports infrastructure, ensuring you can pursue your athletic and sports interests. The hostels are equipped with all amenities to make your stay comfortable, and the canteens in the Institute remain open till midnight, providing you with convenient options for meals and snacks.

As you embark on this exciting chapter of your academic journey, I encourage you to explore all that NITJ has to offer. Get involved in student clubs and organizations, participate in campus events and activities, and take advantage of the numerous opportunities for personal and professional growth that await you.

Once again, welcome to NITJ! I look forward to seeing you thrive and succeed during your time with us.

Prof Anish Sachdeva



Dean Faculty Welfare

Dr B R Ambedkar National Institute of Technology (NITJ) is a premier education and research Institute in the country. The Institute intends to achieve excellence in scientific and technical education.

The office of the Dean, Faculty Welfare helps in bringing together the intellectual class of society and the faculty of the Institute for academic and administrative welfare. There are 224 faculty members in the Institute. NITJ provides various facilities to its faculty members for their career growth. The Institute looks forward to attract young and bright minds and so giving preference to overseas researchers for their induction. Some faculty members have also been allowed overseas assignments for a change in their outlook. The Institute is also in the process of appointing experienced professionals from industry as Professor of Practice and Associate Professor of Practice. Superannuated professionals are also being appointed as adjunct faculty. This step is expected to add a different perspective primarily to the existing young faculty and students.

There are faculty positions available in various departments of the Institute. Interested and deserving people are invited to visit the Institute website and apply for suitable positions.

Prof S. K. Sinha



Dean Planning & Development

Greetings from the office of Dean (Planning and Development)!

First of all, I convey my best wishes to the team coordinating the Institute Prospectus.

In the recent past, Institute has progressed tremendously in all sections, be it academics, research, international collaborations, faculty and staff induction and developing new infra-structure. This has created a very progressive ambience amongst students, faculty and staff. The progress is reflected from the massive jump in the quality publications, research projects, patents and student's placements. Many new programs have been inducted at UG and PG level which shows the versatility of the Institute in delivering education.

Many new buildings have been constructed and also planned keeping in mind the requirements of the students. With induction of new Mega Girls Hostel building, institute now provides hostel accommodation to all girls' students. New Mega Boys Hostel is also coming up which will fulfill the requirement of accommodation of the boys' students in the campus. Moreover, Institute is committed to fulfill all basic needs of the students be it the hostels, messes, canteens, lawns and playgrounds. Institute is giving lots of emphasis on maintenance of various buildings.

Institute is thriving new heights and marking its presence as one of the leading Institute in the world in imparting quality technical education. Let us join hands to make Dr B R Ambedkar National Institute of Technology Jalandhar a world class premier Institute.

Prof Subhash Chander



Dean Research & Consultancy

On behalf of the entire academic community here at NITJ, I extend a warm welcome to you as the.

Your journey here marks the beginning of a transformative experience, one that will not only enrich your academic pursuits but also shape your personal and professional growth. At NITJ, we are committed to foster a vibrant learning environment where curiosity thrives, innovation flourishes, and excellence is celebrated. As you embark on this exciting chapter of your academic journey, I encourage you to embrace every opportunity that comes your way. Engage actively in your classes, participate in research initiatives, and explore the myriad of resources available to you. Our faculty members are leaders in their respective fields and are dedicated to supporting you in your quest for knowledge and discovery.

Moreover, I urge you to consider the invaluable role of research and consultancy in your undergraduate education. Research not only allows you to delve deeper into your chosen field of study but also equips you with critical thinking, problem-solving, and analytical skills that are essential for success in any career path. Likewise, engaging in consultancy projects provides you with real-world experience and the opportunity to make meaningful contributions to society. Embrace the diversity of perspectives and experiences within our community, and seize every opportunity to collaborate and learn from one another.

I want to reiterate my warmest congratulations on your admission to NITJ. Your presence enriches our community, and we are excited to witness your growth and achievements in the years to come. Remember, your potential knows no bounds, and with dedication and perseverance, you can accomplish anything you set your mind to.

Prof Rohit Mehra



Dean Industry and International Affairs

Dear Prospective Students,

It is my pleasure to extend a warm welcome to you as you explore our prospectus.

At Dr B R Ambedkar National Institute of Technology (NIT), Jalandhar, we recognize that understanding industry dynamics and traversing international relations are overriding skills for success. Through innovative courses, practical experiences and industry partnerships, we ensure that our students are well-equipped to succeed in professional environments. Our pledge to nurturing international relations is reflected in our diverse community. As you explore our prospectus, I encourage you to envision yourself as part of our energetic academic community.

I look forward to welcoming you to NIT Jalandhar and guiding you on your journey towards a satisfying and promising career.

Prof Mamta Khosla

Vision

To build a rich intellectual potential embedded with interdisciplinary knowledge, human values, and professional ethics among the learners to make them globally competitive and capable of contributing to industrial efficacy, organizational renewal, societal welfare, sustainable development, and carving a unique niche for themselves.

Mission

- To generate and impart high-quality, globally relevant, interdisciplinary, and multifaceted knowledge through highly illuminating and rewarding teaching-learning experiences
- To conduct high-value-creating research both in core and interdisciplinary areas by collaborating with industrial, academic, and research organizations of repute
- To nourish and nurture creativity, innovation, and entrepreneurial acumen
- To provide a conducive academic and social experience to learners for their transformation into globally capable change champions

Values

- We will make whole-hearted efforts with a high degree of resolve considering our mission supreme over all individual interests
- We will strive hard to provide solutions for emerging challenges of society with a specific focus on raising the standard of living of deprived sections of society
- We will set high benchmarks of performance, keep tremendous scope for continuous improvement, experiment with new things, and leave no scope for complacency.
- We are accountable to the Government of India and all stakeholders including students, staff, faculty, alumni, industry, and other partners.

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1. INTRODUCTION

Dr B R Ambedkar National Institute of Technology was established in the year 1987 as Regional Engineering College and was given the status of National Institute of Technology (Deemed University) by the Government of India on October 17, 2002 under the aegis of Ministry of Human Resource Development, New Delhi. Now the Ministry of Human Resource Development, Government of India has declared the Institute as ***"Institute of National Importance"*** under the act of Parliament-2007. A large number of reputed Industrial houses in the country visit the Institution and select the final year students as Engineers/ Management Trainees. As one of the National Institutes of Technology (NIT), the Institute has the responsibility of providing high quality education in Engineering, Technology and Sciences to produce competent technical and scientific manpower for the country. The Institute offers B.Tech, M.Tech, MSc, MBA and PhD Programmes in the several disciplines of engineering, technology and Sciences.

1.1 Location

The city of Jalandhar is situated between the rivers Sutlej and Beas on National Highway 1. It is one of the important towns of Punjab and is known for its rich educational, cultural, and literary activities. It is an internationally renowned industrial Centre for sports goods, leather goods, and hand tools. The city is 370 kms away from Delhi enroute to Amritsar and is easily accessible from Delhi by train or bus. The Shatabdi Express trains, which ply from New Delhi in the morning at 07:20 hrs and in the evening at 16:30 hrs, are the best modes of travel to Jalandhar. This train takes less than 5 hours to reach Jalandhar City.

How to reach us: The institute is located on G.T Road Amritsar bye-pass at a distance of 15 km from Jalandhar Bus Stand, 12 km from Jalandhar City Railway Station, and 18 km from Jalandhar Cantt Railway Station.

1.2 Campus

The Institute campus is wide spread over an area of 154 acres. It has many topographical features, various buildings of different nature with clean and wide roads surrounded by a green belt. The campus area has been broadly divided into different functional zones: (i) institution zone for teaching departments/centers/administration (ii) residential zone for the faculty and staff (iii) students' hostel zone. Other amenities on the campus include a guest house, a community Centre, a dispensary, shopping Centre, banks, post office, sports complex, playgrounds, new Tennis courts, Basketball courts, Volleyball courts, open-air theatre, central seminar hall and night canteen etc.

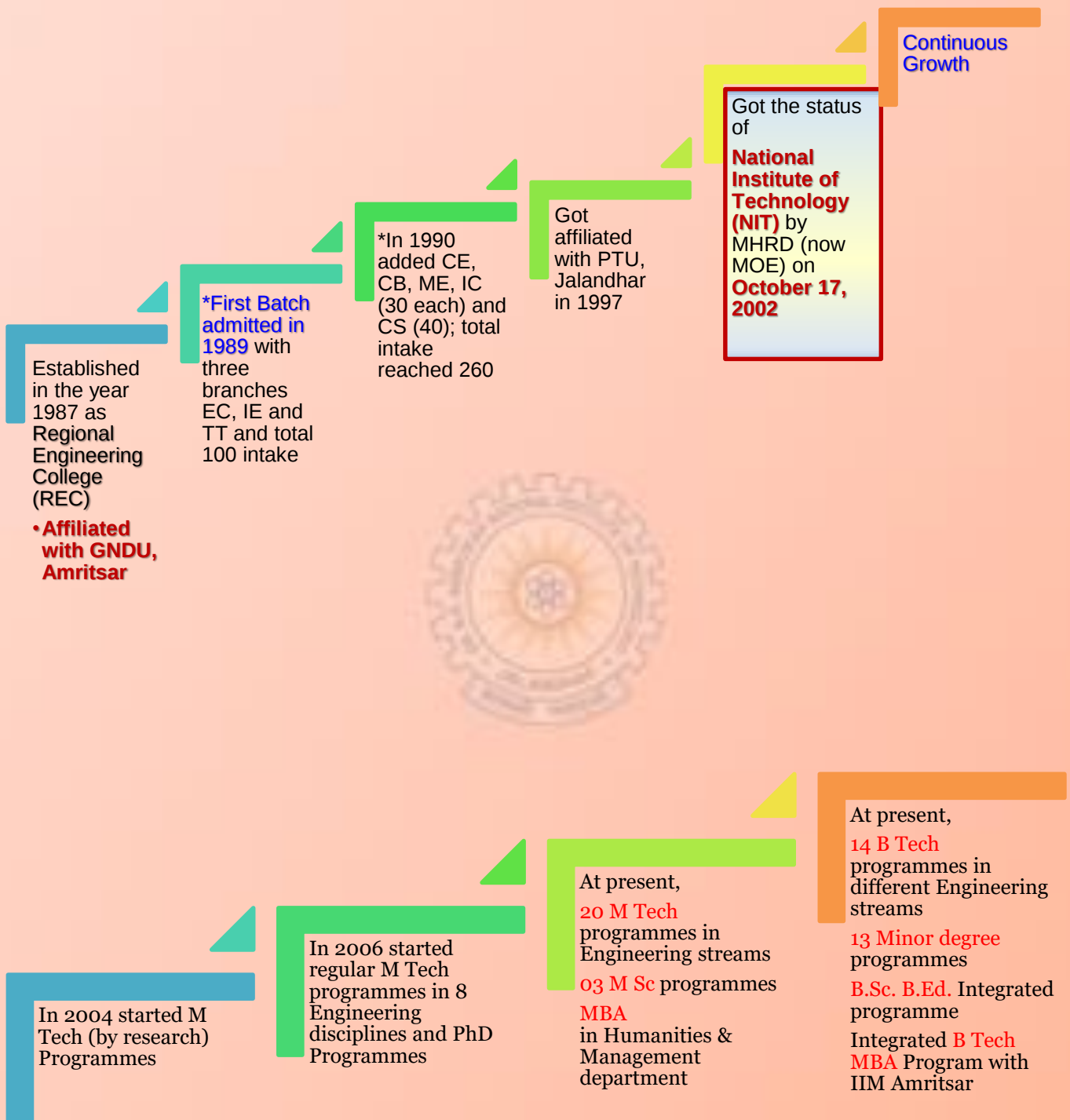
1.3 Administration

Dr B R Ambedkar National Institute of Technology Jalandhar is an autonomous Institution under the aegis of the Ministry of Human Resource Development, Govt. of India, New Delhi. The Institution functions under the overall control and guidance of the Board of Governors, the Director being the Executive Head of the Institute. The other administrative bodies of the Institute are the Senate, the Finance Committee, and the Building and Works Committee-the Registrar, being the Secretary.

There are Six Deans in the institute:

- Dean Academic
- Dean Planning and Development
- Dean Research and Consultancy
- Dean Faculty Welfare
- Dean Student Welfare
- Dean (Industry and International Affairs)

1.4 Brief History



1.5 Ranking and Awards

Year	Milestones
2024	- NITJ has been ranked in the 2024 THE (Times Higher Education) Young University Rankings in the ranking band of 301-350. - NITJ has been ranked in the 2024 THE (Times Higher Education) Asia University Rankings in the ranking band of 351-400. - NITJ has been ranked in the 2024 THE (Times Higher Education) Engineering and Technology in the ranking band of 801-1000 - NITJ Placed in ranking band of 651-700 amongst Asian Universities, 204th position amongst Southern Asia Universities and 6th position amongst all ranked NITs in QS Asia University Rankings 2024. - NITJ has been ranked in the THE (Times Higher Education) in the ranking band of 1001-1200.
2023	- Ranked 46th in Engineering Ranking and 72nd in Overall Ranking- NIRF. - Placed in the band of 11th-50th rank in the ARIIA rankings by Ministry of Education. - Ranked 29th among India's Best engineering colleges by MDRA - NITJ has been ranked in the 2023 Times Higher Education Asia University Rankings in the ranking band of 351-400. - Ranked 45th amongst all Indian University/Institutes according to total h-index. - NITJ ranking amongst Global Universities under Engineering Category have the ranking band 601-800. - NITJ has been ranked in the THE (Times Higher Education) in the ranking band of 1001-1200. - Ranked 45th amongst all Indian University/Institutes according to total h-index. - NITJ ranking amongst Global Universities under Engineering Category have the ranking band 601-800. - NITJ has been ranked in the THE (Times Higher Education) in the ranking band of 1001-1200.
2022	- Ranked 52nd in engineering ranking and 85th in overall ranking- NIRF. - Ranked 47th amongst all government institutes and 2nd in Punjab- IIRF. MDRA ranked 21st amongst top engineering colleges. - Placed 13th amongst top 100 T-Schools and 10th amongst top government T-Schools. - Ranked 4th in North Zone- DATAQUEST. - Ranked 33rd among India's Best engineering colleges by MDRA.
2021	- Placed in the Band-Excellent. - Ranked 42nd in Engineering category- IIRF. - Ranked 49th in engineering ranking and 78th in overall ranking- NIRF. - Rated AAAA+, including 12 others among Engineering colleges in the North zone and 2 other among Engineering colleges in Punjab. - Ranked 22nd amongst top 30 government colleges and 9th among to 10 government colleges with lowest fees.
2020	- Ranked 52nd amongst top 200 engineering institutes in India. - Placed in the band of 11th-25th rank in the ARIIA rankings by Ministry of Education. - Ranked 4th among the top 100 tech-enabled T-schools. - In zone wise top 10 institutes, NITJ has ranked 2nd in north zone. - Ranked 20th among All India top engineering colleges-ICARE rankings. - Secured 8th place among top 10 government T-schools. - Ranked 3rd among top 10 government institutes. In zone wise top 10 T-schools, ranked 5th in north zone..
2019	- Ranked 22nd among the "India's best engineering government colleges" by India Today Group-MDRA. - Ranked 34th among all India top engineering colleges by THE WEEK-Hansa Research Survey. - Secured 68th rank among India's top 100 research institutes in engineering and science.

1.6 Contact Details of Important Functionaries of the Institute

Name	Designation	Email ID
Prof Binod Kumar Kanaujia	Director	director@nitj.ac.in
Prof Raman Bedi	Dean (Academic)	da@nitj.ac.in
Prof Subhash Chander	Dean (Planning & Development)	deanpd@nitj.ac.in
Prof Anish Sachdeva	Dean (Students Welfare)	dsw@nitj.ac.in
Prof Rohit Mehra	Dean (Research & Consultancy)	drc@nitj.ac.in
Prof S. K. Sinha	Dean (Faculty Welfare)	dfw@nitj.ac.in
Prof Mamta Khosla	Dean (Industry and International Affairs)	diia@nitj.ac.in
Dr Balvinder Raj	Associate Dean (Academic-PG)	as.dapg@nitj.ac.in
Dr Vickramjit Singh	Associate Dean (Academic-UG)	as.daug@nitj.ac.in
Dr. Hemant S. Chore	Associate Dean I (Planning & Development)	chorehs@nitj.ac.in
Dr Rajesh Singla	Associate Dean II (Planning & Development)	singlar@nitj.ac.in
Dr Kanish Kapoor	Associate Dean III (Planning & Development)	as3.dpd@nitj.ac.in
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Dr Indu Saini	Associate Dean II (Students Welfare)	sainii@nitj.ac.in
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Dr Satyender Singh	Associate Dean III (Research & Consultancy)	as3.drc@nitj.ac.in
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Dr Sukwinder Singh	Associate Dean III (Faculty Welfare)	as3.dfw@nitj.ac.in
Dr M D Roy	Associate Dean I (Industry and International Affairs)	roymd@nitj.ac.in
Dr Kiran Singh	Associate Dean II (Industry and International Affairs)	as3.diia@nitj.ac.in
Dr Anupam Yadav	Associate Dean Examination	coe@nitj.ac.in
Prof Ajay Bansal	Registrar	registrar@nitj.ac.in

1.7 Administrative Staff

Name	Designation	Email ID
Dr Gaurav Tandon	Deputy Registrar (Accounts & Finance)	drfa@nitj.ac.in
Mr. Ramneek Kumar	Deputy Registrar (Establishment)	drestablishment@nitj.ac.in
Mr. Neeraj	Assistant Registrar (Academic & Legal)	aracademic@nitj.ac.in arlegal@nitj.ac.in
Mr. Vipin Kumar	Assistant Registrar (Accounts & Store)	araccount@nitj.ac.in arstore@nitj.ac.in
Ms. Poonam Arora	Assistant Registrar (Audit)	araudit@nitj.ac.in
Mr. Vijay Narayan	Assistant Registrar (Establishment)	arestablishment@nitj.ac.in
Mr. Ramesh Chand Meena	Assistant Registrar (Examination)	arexam@nitj.ac.in
Mr. Rakesh Kakkar	Assistant Registrar (General Administration and Estate)	aradministration@nitj.ac.in
Mr. Sourav Gupta	Assistant Registrar (Purchase)	arpurchase@nitj.ac.in
Mr. Shyam Sunder	Superintending Engineer	se@nitj.ac.in
Mr. Harpreet Singh	Executive Engineer	eeepd@nitj.ac.in
Mr. Akshay Choudhary	Executive Engineer (Civil)	eecivil@nitj.ac.in
Dr Tarun Sehgal	Medical Officer	sehgalt@nitj.ac.in
Dr Sitakshi	Medical Officer	bhatias@nitj.ac.in



2. ACADEMICS

2.1 Academic Structure

The primary academic entities within the Institute encompass Departments, Centres, and integrated programs. Below is a listing of these academic units, with further elaboration provided later in this document. Departments engage in teaching across all levels and conduct research activities. Meanwhile, Centres specialize in interdisciplinary research endeavors and primarily offer teaching opportunities at the postgraduate level.

Academic Departments



- Biotechnology
- Chemistry
- Chemical Engineering
- Civil Engineering
- Computer Science and Engineering
- Electronics and Communication Engineering
- Electrical Engineering
- Humanities and Management
- Industrial and Production Engineering
- Information Technology
- Instrumentation and Control Engineering
- Mathematics and Computing
- Mechanical Engineering
- Physics
- Textile Technology

Centers

- Center for Energy and Environment
- Center for Artificial Intelligence
- Center of Reliability Improvement in Industry
- Center for Continuing Education (CCE)
- Sports and Healthcare Research Center (SHRC)



Integrated Programmes



- Integrated Teacher Education Programme (ITEP)
B.Sc. - B.Ed. (4 Year Programme)
- Integrated B.Tech-MBA Program

2.2 Academic System

The academic system at NIT, Jalandhar is framed on a credit-based semester examination system. The credit system envisages a continuous evaluation of student's performance, and provides flexibility for academic progress based on individual ability and convenience, subject to the constraint of the minimum requirements for continuation of the academic programme. The students are awarded a letter grade from the prescribed grading system in each course registered by them. For each pass grade, the students accumulate the course credits as earned credits. The academic performance of the students is indicated in terms of the number of credits that he/she earns and the weighted grade point average. A specified minimum number of credits should be acquired on a semester or session basis to qualify for continuation in the academic programme and the award of a degree.

The Institute has taken a lead role in implementing the National Education Policy 2020 from the academic year 2023. The revised curricula of BTech and MTech programmes have been designed to promote inter-disciplinary, multi-disciplinary and trans-disciplinary education and have provisions for choice-based credit system (CBCS). The Implementation Status of NEP 2020 is as below:

- **Academic Bank of Credit (ABC)**

The Institute has started uploading the Credits of the students on the ABC portal. ABC ids of the current batch students have been generated and the credits have been uploaded on the ABC portal.

- **Multiple Exit**

The Institute has implemented the Multiple Exit Policy as per NEP-2020, and the provisions have been made during the BTech program (4 Year Duration), MTech. Programme (2 Year Duration), MBA Programme (2 Year Duration) and for PhD candidates.

- **Multiple Entry**

A UG or PG student who exits the course without completion due to unavoidable circumstances will be allowed re-entry into the course. Corresponding to her/his exit points, the proposed policy recommends three entry points to BTech and one entry point to all PG programs. The re-entry to the programme will be governed by the rules concerning whether the programme had changed at the time of re-entry into the programme.

- **ERP System**

The Institute has designed and upheld an in-house ERP System to facilitate a range of academic and administrative tasks in a digital format. Faculty, staff, students, and administration members are empowered to engage in diverse academic and operational activities through the NITJ ERP System. Additionally, parents have been provided access to the NITJ ERP, enabling them to monitor the academic advancements of their wards.

- **Revision of Curriculum and Syllabi**

The curriculum and the syllabi have been revised by the Institute as per the NEP-2020 guidelines from the 2023 batch onwards.



2.3 Academic Calendar



Dr. B R Ambedkar National Institute of Technology, Jalandhar

Academic Calendar

Working Weeks: 21

Odd Semester (July-Dec 2024)

Working Days: 97

Working Weeks	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	21 July	22 July Institute Reopens	Registration Started on 26 June 2024.... Continues			23-25 July	26 July
[Week 1]	28 July	1 29 July Start of Classes L/D-Reg w/o Fine	2 30 July	3 31 July	4 01 Aug	5 02 Aug	03 Aug
[Week 2]	04 Aug	6 05 Aug L/D- Reg with Fine (Rs.2000)	7 06 Aug	8 07 Aug	9 08 Aug	10 09 Aug	10 Aug
[Week 3]	11 Aug	11 12 Aug L/D- Reg with Fine (Rs.5000)	12 13 Aug	13 14 Aug	14 15 Aug Independence Day	16 Aug	17 Aug
[Week 4]	18 Aug	15 19 Aug	16 20 Aug	17 21 Aug	18 22 Aug	19 23 Aug	24 Aug
[Week 5]	25 Aug	26 Aug Janmashtami	20 27 Aug	21 28 Aug	22 29 Aug	23 30 Aug	31 Aug
[Week 6]	01 Sept	24 02 Sept	25 03 Sept	26 04 Sept	27 05 Sept	28 06 Sept	07 Sept
[Week 7]	08 Sept	29 09 Sept	30 10 Sept	31 11 Sept	32 12 Sept	33 13 Sept	14 Sept
[Week 8]	15 Sept	16 Sept Milad-un-Nabi	34 17 Sept	35 18 Sept	36 19 Sept	20 Sept	21 Sept
						TecnITI'24 (20 - 22 Sept)	
[Week 9]	22 Sept	37 23 Sept	38 24 Sept	39 25 Sept	40 26 Sept	41 27 Sept	28 Sept
[Week 10]	29 Sept	42 30 Sept	43 01 Oct	44 02 Oct Gandhi Jayanti	45 03 Oct	46 04 Oct Mid-Sem Exam	47 05 Oct Mid-Sem Exam
[Week 11]	06 Oct	47 07 Oct Mid-Sem Exam	48 08 Oct Mid-Sem Exam	49 09 Oct Mid-Sem Exam	50 10 Oct Mid-Sem Exam	51 11 Oct Mid-Sem Exam	52 12 Oct Dussehra
[Week 12]	13 Oct	52 14 Oct	53 15 Oct	54 16 Oct L/D - Apply for Makeup Exam	55 17 Oct NITJ Foundation Day (Working Day)	56 18 Oct	57 19 Oct
[Week 13]	20 Oct	57 21 Oct	58 22 Oct	59 23 Oct	60 24 Oct	61 25 Oct	26 Oct
[Week 14]	27 Oct	28 Oct Mid-term Break	29 Oct Mid-term Break	30 Oct Mid-term Break	31 Oct Diwali	01 Nov Mid-term Break	02 Nov
[Week 15]	03 Nov	62 04 Nov	63 05 Nov	64 06 Nov	65 07 Nov	66 08 Nov	09 Nov
[Week 16]	10 Nov	67 11 Nov	68 12 Nov	69 13 Nov	70 14 Nov	71 15 Nov Guru Nanak Birthday	16 Nov
[Week 17]	17 Nov	71 18 Nov	72 19 Nov	73 20 Nov	74 21 Nov	75 22 Nov	23 Nov
[Week 18]	24 Nov	76 25 Nov	77 26 Nov	78 27 Nov Notification of Detainees	79 28 Nov	80 29 Nov Last Day of Classes	81 30 Nov End-Sem Exam
[Week 19]	01 Dec	82 02 Dec End-Sem Exam	83 03 Dec End-Sem Exam	84 04 Dec End-Sem Exam	85 05 Dec End-Sem Exam	86 06 Dec End-Sem Exam	87 07 Dec End-Sem Exam
[Week 20]	08 Dec	88 09 Dec End-Sem Exam	89 10 Dec End-Sem Exam	90 11 Dec End-Sem Exam	91 12 Dec End-Sem Exam	92 13 Dec End-Sem Exam	93 14 Dec End-Sem Exam
[Week 21]	15 Dec	94 16 Dec End-Sem Practical Exam	95 17 Dec End-Sem Practical Exam	96 18 Dec End-Sem Practical Exam	97 19 Dec End-Sem Practical Exam	98 20 Dec Showing of Answer Sheets	99 21 Dec
	22 Dec	23 Dec Moderation of Grades Display of Grades Display of Time Table for next Sem	24 Dec Submission of Grades (Final locking result on ERP)	25 Dec Christmas Day	26 Dec	27 Dec	28 Dec

In Lieu of Mid-term Break, 05 Oct, 30 Nov, 07 Dec, 14 Dec will be Working Days

Winter Vacation from 26 December 2024 to 14 January 2025 (20 Days)

Registration for even semester starts from January 06, 2025; Classes for next semester start from January 16, 2025.

2.4 Academic Outreach and New Initiatives

(MoU with Academics and Industries)

The Institute is actively involved in collaborative Programmes with national and international organizations for its development. Memoranda of Understanding (MOUs) have been signed with the following Organizations/Industries:

- University of South Alabama, USA
- University of Florence, Italy
- University of Saskatchewan, Saskatoon Canada
- The University of Missouri-Kansas City
- University Abderrahmane Mira- Bejaia (Algeria)
- Arba Minch University, Arba Minch Ethiopia
- Indian Council for Cultural Relations (ICCR), Ministry of External Affairs, Government of India
- Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh
- All India Council for Technical Education, New Delhi
- National Institute of Technology, Agartala
- National Institute of Technology, Kururkshetra
- MTAB Technology Center Private Limited
- Research for Resurgence Foundation, Nagpur
- Central Tool Room, Ludhiana
- Cryptowire University
- Khadi and Village Industries Commission
- Power Grid Corporation India Limited
- Indian Institute of Technology, Madras
- Indian Institute of Technology, Delhi
- Indian Institute of Technology, Kanpur
- Indian Institute of Technology, Roorkee
- Sant Longowal Institute of Engineering & Technology, Longowal, Sangrur
- Indian Institute of Technology, BHU
- Indian Institute of Technology, Ropar
- Indian Institute of Technology, Mandi
- National Institute of Technology, Delhi
- Indian Institute of Management, Amritsar National Institute of Industrial Engineering, Mumbai
- Institute of Autoparts & Hand Tools Technology, Ludhiana
- M/s Trident Limited, Trident Group, Snghera, Punjab
- M/s Indian Sucrose Ltd.
- Wool Research Association, Thane, Maharashtra
- Biomedical Instruments and Devices Hub, PGIMER Chandigarh
- Ministry of Micro, Small and Medium Enterprises, Gov. of India
- Indian Institute of Management (IIM), Amritsar
- Enerzinx India Pvt. Ltd
- KISCO India Private Limited
- Central Institute of Petrochemical Engineering & Technology (CIPET), Chennai
- Indian Institute of Information Technology Design and Manufacturing
- Inffibnet Centre, An IUC of University Grants Commission Infocity, Gandhinagar
- Heartfulness Education Trust, (HET) Vijaywada



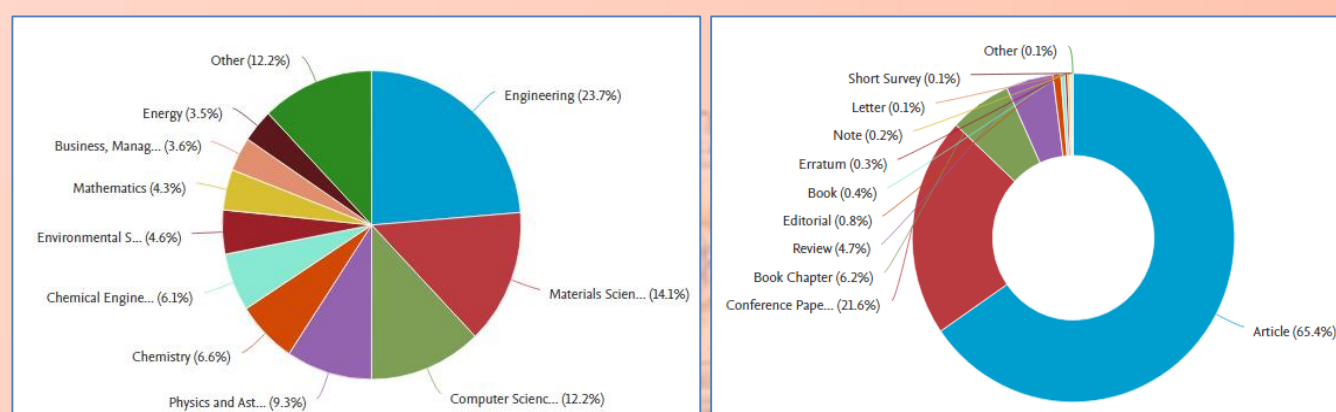
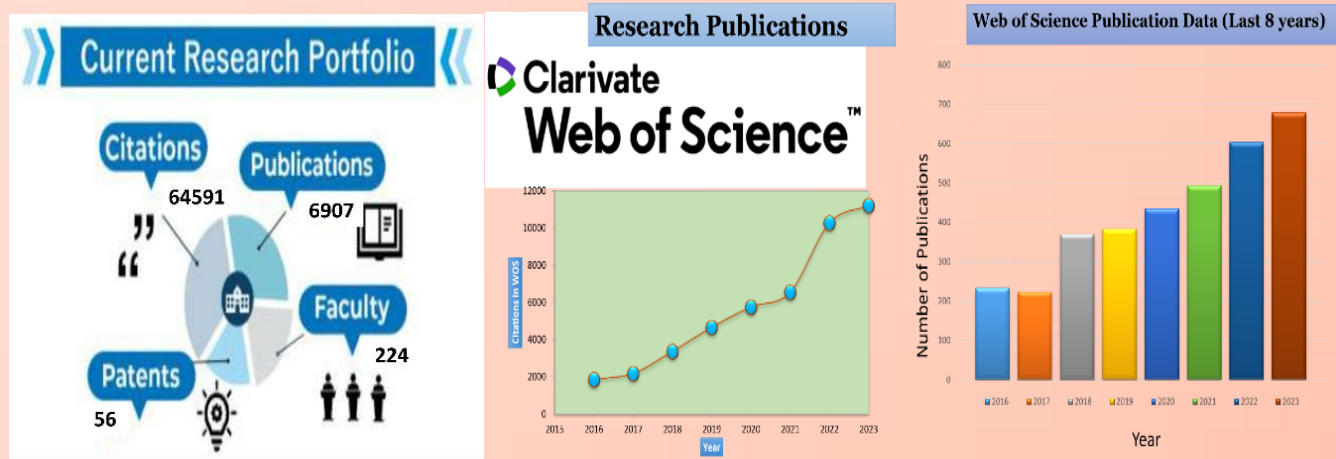
An MoU signed between Dr B R Ambedkar National Institute of Technology Jalandhar and Indian Institute of Technology (BHU) Varanasi on November 28, 2023. The primary objective of this MOU was to share and strengthen academic and advanced research developments.



An MoU signed between Dr B R Ambedkar National Institute of Technology Jalandhar and Indian Institute of Technology Delhi on November 29, 2023. The primary objective of this MOU was to develop cooperation and promote mutual understanding and excellence in practice-based education, research, and knowledge exchange between institutes so that the research and knowledge developed are used for further research and its application at the regional, national, and global levels.

2.5 Research and Development Activities

Research Publications (2015-2023): Institute Level



Research Projects and Consultancy

- During the last 5 years about **160 R & D Projects of amount about ₹ 35 Crores** in all disciplines of Engineering and Science have been sanctioned to the Institute faculty by **external funding agencies SERB, DST, CSIR, UGC, JK White Cement, Emkay, MeitY, PMU CDAC, ISRO, MNRE, NTTM etc.**
- At present, 38 sponsored projects and joint projects with other Institutions amounting to ₹ 23 Crores are in progress.
- NIT Jalandhar has successfully delivered consultancy projects of more than Rs 3.00 Crores during 2023-24.

Financial Year	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020
Total no. of Sponsored Projects	38	15	10	51	46
Total no. of Funding Agencies	12	05	13	12	11
Total Amount Sanctioned (Amount in Crore Rs.)	22.8	3.2	2.5	3.3	2.8

Incubated start-ups

INS Technologies Pvt. Limited	ACG Inventix	Eon Surya
FreeCo Education Pvt. Limited	RFvis Technologies	Vizvas
Eskairo	Kendel	Ergonomics Solutions
Genesis Controls (GC)	MOO Diagnostics	Sanved Technologies
Meditex Healthcare Textiles	Kayrio	U-Store
NIT Tech Solutions Pvt Limited	RaMCom	Quevera'
Lifetronics Engineering Pvt Limited	CookAge	Skilly Pandaz
Construction Solutions (CS)		

Academic Events

Institute has put in place a new policy for overhead, consultancy and self-sponsored programmes, such as conferences, FDPs, STTPs. Besides this a SEED Fund amounting to Rs 5 Lacs each for new faculty members has been implemented.

The faculty members have actively been involved in interaction and outreach with the outside world. As part of this effort, the Institute has extended the CPDA grants to faculty, allowing them to undertake a total of 32 visits abroad and 44 visits within India to attend various academic events, organized 05 International Conferences and a total of 32 National/International FDP's/STCs/Workshops/Webinars etc.

Ministry of Education (MoE) has approved the recommendations of the Program Advisory Council to shortlist the 20 HEIs for the capacity building program on design and entrepreneurship.

Year	STC/FDP	International Conference	National Conference	Workshop	GIAN Course
2023	19	5	3	6	1
2022	54	2	1	2	1
2021	91	1	1	1	1
2020	26	3	2	3	0
2019	16	5	4	4	4



3. ACADEMIC PROGRAMMES

The Institute offers following undergraduate, postgraduate and research Programmes

3.1 UG Programme

The Institute offers 4-Year Bachelor of Technology Programme in the following discipline (Academic Year 2024-25):

ProgramName	Seat Pool (State Quota or Other State/All India Quota)	Seat Pool (Gender-Neutral or Female-only)	Open	Open PwD	SC	SC PwD	ST	ST PwD	OBC - NCL	OBC-NCL PwD	Gen-EWS	Gen-EWS-PwD	Total (includes Female Supernumerary)
Bio Technology	Punjab	Gender-Neutral	8	0	3	0	2	0	5	0	2	0	20
		Female-only (including Supernumerary)	1	1	1	0	0	0	1	0	1	0	5
	Other than Punjab	Gender-Neutral	8	0	3	0	2	0	5	0	2	0	20
		Female-only (including Supernumerary)	2	0	1	0	0	0	1	1	0	0	5
Chemical Engineering	Punjab	Gender-Neutral	12	1	4	1	2	0	7	1	2	0	30
		Female-only (including Supernumerary)	3	0	1	0	0	0	2	0	1	0	7
	Other than Punjab	Gender-Neutral	12	1	4	0	2	0	8	0	1	1	29
		Female-only (including Supernumerary)	3	0	1	0	1	0	2	0	1	0	8
Civil Engineering	Punjab	Gender-Neutral	13	0	6	0	2	0	9	0	4	0	34
		Female-only (including Supernumerary)	3	0	0	1	1	0	2	0	1	0	8
	Other than Punjab	Gender-Neutral	14	0	5	0	2	0	10	0	2	1	34
		Female-only (including Supernumerary)	4	0	1	0	1	0	2	0	1	0	9
Computer Science and Engineering	Punjab	Gender-Neutral	24	1	9	1	4	0	16	1	6	1	63
		Female-only (including Supernumerary)	7	0	3	0	1	0	4	0	1	0	16
	Other than Punjab	Gender-Neutral	23	1	8	0	6	1	16	1	7	0	63
		Female-only (including Supernumerary)	7	1	2	0	1	0	4	0	1	0	16
Electrical Engineering	Punjab	Gender-Neutral	10	0	3	0	2	0	6	1	2	0	24
		Female-only (including Supernumerary)	2	0	1	0	0	0	2	0	1	0	6
	Other than Punjab	Gender-Neutral	9	1	3	1	2	0	6	0	2	0	24
		Female-only	2	0	1	0	1	0	1	0	1	0	6

		(including Supernumerary)											
Electronics and Communication Engineering	Punjab	Gender-Neutral	13	1	5	0	3	0	9	1	3	0	35
		Female-only (including Supernumerary)	3	0	1	0	1	0	2	0	1	0	8
	Other than Punjab	Gender-Neutral	13	1	5	0	2	0	9	0	3	1	34
		Female-only (including Supernumerary)	3	0	1	1	1	0	2	0	1	0	9
Mechanical Engineering	Punjab	Gender-Neutral	18	0	6	1	3	0	11	1	4	0	44
		Female-only (including Supernumerary)	3	1	2	0	1	0	3	0	0	1	11
	Other than Punjab	Gender-Neutral	17	1	6	0	3	0	11	1	5	0	44
		Female-only (including Supernumerary)	4	0	2	0	1	0	3	0	1	0	11
Textile Technology	Punjab	Gender-Neutral	11	1	4	0	2	0	8	1	3	0	30
		Female-only (including Supernumerary)	4	0	1	0	1	0	2	0	1	0	9
	Other than Punjab	Gender-Neutral	11	1	4	1	2	0	8	0	3	0	30
		Female-only (including Supernumerary)	3	0	2	0	1	0	2	0	1	0	9
Information Technology	Punjab	Gender-Neutral	19	0	7	0	3	1	12	1	5	0	48
		Female-only (including Supernumerary)	5	0	2	0	0	0	4	0	1	0	12
	Other than Punjab	Gender-Neutral	18	1	7	0	4	0	12	1	5	0	48
		Female-only (including Supernumerary)	5	1	1	0	0	1	3	0	1	0	12
Instrumentation and Control Engineering	Punjab	Gender-Neutral	15	1	6	1	3	0	10	0	4	0	40
		Female-only (including Supernumerary)	4	0	1	0	1	0	3	0	1	0	10
	Other than Punjab	Gender-Neutral	15	1	6	0	2	0	10	1	4	1	40
		Female-only (including Supernumerary)	4	0	1	0	1	0	3	0	1	0	10
Industrial and Production Engineering	Punjab	Gender-Neutral	11	1	5	0	2	0	8	0	3	0	30
		Female-only (including Supernumerary)	3	0	1	0	1	0	2	0	1	0	8
	Other than Punjab	Gender-Neutral	12	1	4	0	2	0	8	0	3	0	30
		Female-only (including Supernumerary)	3	0	1	0	1	0	1	1	0	0	7
Data Science & Engineering	Punjab	Gender-Neutral	7	0	2	0	1	0	3	1	2	0	16
		Female-only	1	0	1	0	0	0	2	0	0	0	4

		(including Supernumerary)											
	Other than Punjab	Gender-Neutral	5	1	2	0	1	1	4	0	2	0	16
		Female-only (including Supernumerary)	2	0	1	0	0	0	1	0	0	0	4
Electronics and VLSI Engineering	Punjab	Gender-Neutral	5	0	2	0	1	0	3	0	1	0	12
		Female-only (including Supernumerary)	1	0	1	0	0	0	1	0	0	0	3
	Other than Punjab	Gender-Neutral	4	1	1	0	1	0	3	0	2	0	12
		Female-only (including Supernumerary)	1	0	1	0	0	0	1	0	0	0	3
Mathematics and Computing	Punjab	Gender-Neutral	7	0	2	0	1	0	4	0	2	0	16
		Female-only (including Supernumerary)	1	0	1	0	0	0	1	1	0	0	4
	Other than Punjab	Gender-Neutral	5	1	2	0	1	0	5	0	2	0	16
		Female-only (including Supernumerary)	2	0	1	0	0	0	1	0	0	0	4
		Total	425	22	158	8	79	4	284	15	105	6	1106

Note: Total 1103 sanctioned seats are there for the B.Tech. Programmes

03 Supernumerary Seats for Girl Child are there in the B.Tech. Programme of Textile Technology Seats have been allocated on half basis i.e. 50% for Home State and 50% for other State

Female Only Seats are 20% of the sanctioned intake i.e. 20% of 1103= 221 + 3 Supernumerary= 224 which have been further distributed 50% for Home State and 50% for other State Reservation has been followed as per GoI Norms

Open	40.50%
SC	15%
ST	7.50%
OBC	27%
EWS	10%
PwD-Horizontally	5%

- The Institute offers 4-year Integrated B.Sc., B.Ed. Programme

Name of the Programme	Seat Intake for the Academic Session 2024-25
B.Sc., B.Ed.	50

- 5 Year B. Tech-MBA Integrated Programme**
MBA degree to be awarded by IIM Amritsar
- Direct PhD Admission in IIT Madras & IIT Roorkee**

Minor Degree

In addition to above mentioned B.Tech programme, the institute offers its meritorious students to earn a minor degree in another engineering discipline in addition to Major degree in the which the student is originally enrolled. The students have to study six additional specialized courses (One in each semester starting from 3rd semester) in the engineering discipline of minor degree. Presently, the following combinations of Major and Minor degrees are operational:

B.Tech. Programme in	Available Minor Degree Programmes
Bio Technology (BT)	CH, CE, CS, EC, EE, IC, IP, ME, TT
Chemical Engineering (CH)	BT, CE, CS, EC, EE, IC, IP, ME, TT
Civil Engineering (CE)	BT, CH, CS, EC, EE, IC, IP, ME, TT
Computer Science & Engg. (CS)	BT, CH, CE, EC, EE, IC, IP, ME, TT
Data Science & Engg. (DS)	BT, CH, CE, EC, EE, IC, IP, ME, TT
Electronics & Communication Engg. (EC)	BT, CH, CE, CS, EE, IC, IP, ME, TT
Electronics & VLSI Engg	BT, CH, CE, CS, EE, IC, IP, ME, TT
Electrical Engineering (EE)	BT, CH, CE, CS, EC, IP, ME, TT
Instrumentation and Control Engg. (IC)	BT, CH, CE, CS, EC, IP, ME, TT
Industrial and Production Engineering (IP)	BT, CH, CE, CS, EC, EE, IC, TT
Information Technology (IT)	BT, CH, CE, EC, EE, IC, IP, ME, TT
Mechanical Engineering (ME)	BT, CH, CE, CS, EC, EE, IC, TT
Textile Technology (TT)	BT, CH, CE, CS, EC, EE, IC, IP, ME

For further details of the eligibility requirements, admission procedure etc. to the Programme, kindly visit the Institute website www.nitj.ac.in

3.2 PG Programme

The Institute offers 2-Year Master of Technology Programme in the following discipline (Academic Year 2023-24)

CCMT-2024 Seat Matrix

Department	Program	Group (G1, G2, G3)	Total Seats	OC	EWS	OBC	SC	ST	OC-PwD	EWS-PwD	OB-PwD	SC-PwD	ST-PwD
Bio Technology	Bio Technology	G1	20	8	2	5	3	1	1	0	0	0	0
Centre for Energy and Environment	Renewable Energy	G1	15	6	1	4	2	1	0	0	0	1	0
Chemical Engineering	Chemical Engineering	G1	8	3	1	2	0	1	0	0	0	1	0
Chemical Engineering	Chemical Engineering	G2	7	3	1	2	1	0	0	0	0	0	0
Civil Engineering	Geotechnical & Geo-environmental Engineering	G1	15	6	1	4	2	1	0	0	0	1	0
Civil Engineering	Structural and Construction Engineering	G1	40	15	4	10	6	3	1	0	1	0	0
Computer Science and Engineering	Computer Science & Engineering	G1	40	15	4	10	6	3	1	0	1	0	0
Computer Science and Engineering	Data Science & Engineering	G1	20	7	2	6	3	1	1	0	0	0	0

Engineering													
Computer Science and Engineering	Computer Science and Engg (Information Security)	G1	15	6	1	4	2	1	0	1	0	0	0
Electronics and Communication Engineer	Signal Processing and Machine Learning	G1	20	7	2	5	3	2	1	0	0	0	0
Electronics and Communication Engineer	VLSI Design	G1	40	15	4	10	6	3	1	0	1	0	0
Industrial & Production Engineering	Industrial Engineering and Data Analytics	G1	15	6	1	4	2	1	0	1	0	0	0
Information Technology	Data Analytics	G1	20	7	2	6	3	1	1	0	0	0	0
Instrumentation & Control Engineering	Control & Instrumentation Engineering	G1	8	3	1	2	1	1	0	0	0	0	0
Instrumentation & Control Engineering	Machine Intelligence and Automation	G1	7	3	1	2	1	0	0	0	0	0	0
Electrical Engineering	Electric Vehicle Design	G1	20	7	2	5	3	2	1	0	0	0	0
Mechanical Engineering	Design Engineering	G1	20	8	1	5	3	2	0	0	1	0	0
Mechanical Engineering	Thermal and Energy Engineering	G1	10	4	1	3	1	1	0	0	0	0	0
Textile Technology	Textile Engineering and Management	G1	20	8	2	4	3	2	0	0	1	0	0
Mathematics and Computing	Mathematics and Computing	G1	20	9	2	5	3	0	0	0	0	0	1
Total	Total		380	146	36	98	54	27	8	2	5	3	1

Note: Rotation of seats of PWD category has been carried out in various programs. Overall seats have been maintained as per GoI norms.

Two years M.Tech Programmes (Self-Sponsored)

- Artificial Intelligence
- Bio Technology
- Chemical Engineering
- Computer Science and Engineering
- Computer Science and Engineering (Information Security)
- Data Science and Engineering **NEW**
- Control and Instrumentation Engineering
- Design Engineering
- Thermal Engineering
- Electric Vehicle Design **NEW**
- Electronics and Communication Engineering
- Data Analytics **NEW**
- VLSI Design
- Geotechnical and Geo-Environmental Engineering
- Renewable Energy
- Structural and Construction Engineering
- Industrial Engineering and Data Analytics **NEW**
- Textile Engineering and Management
- Mathematics and computing
- Renewable Energy

For further details of the eligibility requirements, admission procedure etc. to the programme, kindly visit the Institute website www.nitj.ac.in and Centralized Counseling for M.Tech./M.Arch./M.Plan website ccmt.nic.in.

INFORMATION FOR CCMN 2024

Seat Matrix

Program Name	Eligible Degree with subject	Eligible JAM Paper	Number of Seats											Additional Requirements
			OC	EWS	OB	SC	ST	OC-PWD	EWS-PWD	OB-PWD	SC-PWD	ST-PWD	Total	
M.Sc. in Mathematics	B.Sc.-3 year, with Mathematics as a subject	MA	15	4	9	6	3	1	0	1	0	0	39	
M.Sc. in Chemistry	B.Sc.-3 year, with Chemistry as a subject	CY	15	4	10	5	3	1	0	1	0	0	39	
M.Sc. in Physics	B.Sc.-3 year, with Physics as a subject	PH	15	4	10	5	2	0	0	0	1	1	38	Must have studied Mathematics as one of the subjects in Bachelor's degree
			45	12	29	16	8	2	0	2	1	1	116	

Note: One seat for PWD in EWS category was provided last year. For this year, 01 PWD seat is given in ST category for rotation purpose. Overall seats have been maintained as per GoI norms.

The Institute offers 2-year Master of Business Administration programme

Sr. No.	Name of the Programme	Seat Intake for the Academic Session 2023-24	
		Regular	Self-sponsored
1.	MBA	38	38

For further details of the eligibility requirements, admission procedure etc. to the programme, kindly visit the Institute website www.nitj.ac.in

3.3 PhD Programme (Full Time and Part Time)

The Institute offers PhD (Full Time & Part Time) Programme in Engineering, Sciences, Humanities and Management disciplines of the Institute. For further details of the eligibility requirements, admission procedure etc. of the programme, kindly visit the Institute website www.nitj.ac.in.

3.4 International Students

DASA

The admissions to various UG and PG Programmes of premier Institutes of India under the DASA scheme will be coordinated by National Institute of Technology Raipur, India for the year 2024-2025.

ICCR

The Indian Council for Cultural Relations, is an autonomous organization of the Government of India, involved in India's global cultural relations, through cultural exchange with other countries and their people.

Study in India

The Study in India (SII) programme is a flagship project introduced by the Ministry of Education (MoE), Government of India. The Study in India programme seeks to endorse India as a prime education hub for international students by inviting them to pursue their higher education in the country.

Note: All the rules and regulations governing the UG/PG/PhD programmes as amended from time to time shall be displayed on the Institute website and the decision of the Institute Senate shall be final and binding.

4. SEMESTER FEES AND OTHER CHARGES

Tuition Fee for UG (B.Tech) students per semester

	Category wise /Income wise	Tuition Fee
B.Tech	Income below Rs.1 Lakh per annum (Gen/OBC)	--NIL--
	Income between Rs.1 to 5 Lakh per annum (Gen/OBC)	Rs.20840/-
	Income above Rs.5 lakh per annum (Gen/OBC)	Rs.62500/-
	For all SC/ST/PH Students	--NIL--

The economically backward students of B.Tech (General/OBC Category) who wants to avail Tuition Fee waiver on the basis of Annual Family Income are required to submit Annual Family Income Certificate before submission of Institute academic fee.

NOTE: For getting the tuition fee waiver as per Institute norms please note the following strictly:

- (i) The economically backward students of B. Tech (General/OBC Category) who wants to avail Tuition Fee waiver on the basis of Annual Family Income are required to submit Annual Family Income Certificate before submission of Institute academic fee.
- (ii) Students are required to submit Annual family Income certificate issued on or after 1st April of every financial year duly signed by the issuing authority of the concerned state. Certificate issuing authority list shall be uploaded on the Institute website before the registration process along with fee structure.
- (iii) Students who are not able to produce the Annual Family Income certificate at the time of reporting shall have to deposit the full fee.

Tuition Fee for PG and PhD students per semester:

M.Tech/MBA	Gen/OBC/PH	Rs.35000/-
	SC/ST	--NIL--
M.Tech/MBA (Self sponsored)	All categories	Rs.55000/-
M.Tech (Artificial Intelligence) (Self sponsored)	All categories	Rs.68000/-
M.Sc.	Gen/OBC/PH	Rs.7500/-
	SC/ST	--NIL--
PhD (Full Time)	Gen/OBC/PH	Rs.7500/-
	SC/ST	--NIL--
PhD (Part Time)	All categories	Rs.7500/-
Integrated B.Sc. - B.Ed.	Gen/OBC/EWS	Rs.30000/-
	SC/ST/PH	---NIL---

Detail of other institutional charges for all UG, PG and PhD students

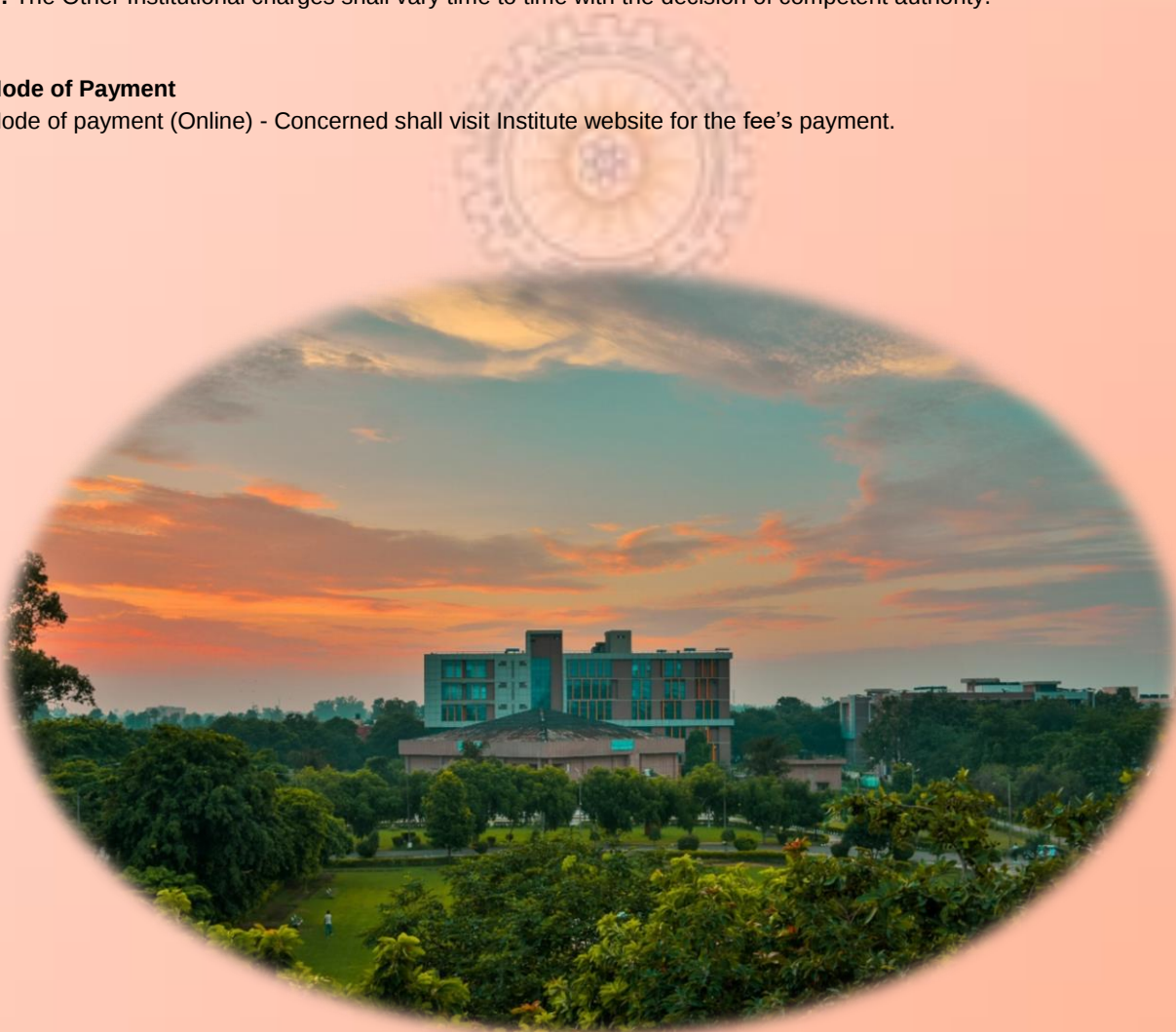
Sr. No.	Particulars	Hostlers	Day Scholars	Day Scholars with bus facility
	MAIN ACCOUNT	PER SEMESTER (in Rs.)		
1	Admission / Registration Fee	1000	1000	1000
2	Library Fee	1000	1000	1000
3	Room Rent (More than Single Seater) For single seater (Optional) Rs.9000/-	6000	-	-
4	Transportation Charges	-	-	3000
	EXAMINATION ACCOUNT			
5	Examination fee	1000	1000	1000
	HOSTEL FUND ACCOUNT			
6	Mess and Utensil fee	2500	-	-
	Hostel Maintenance			
	Hostel & Mess Est. Charges			

	SECURITY FUND ACCOUNT				
7	Institute Security (Non - Refundable) One time at the time of Admission only		5000	5000	5000
	ALUMNI ASSOCIATION ACCOUNT				
F8	Alumni Association membership fee		500	500	500
	STUDENT FUND ACCOUNT				
9	Stationery fee / Project Fee	Others Charges	1500	1500	1500
	Student Welfare Fee				
	Medical Fee				
	Identity Card Fee				
10	Students Activity Fee		5000	5000	5000
11	International / National Conferences		500	500	500
12	Internet Fee/Computer Fee		1000	1000	1000
13	Medical and healthcare facility		500	500	500
	DEVELOPMENT FUND ACCOUNT				
14	Development Fee		5000	5000	5000
	Total Other Institutional Charges		30500	22000	25000

NOTE: The Other Institutional charges shall vary time to time with the decision of competent authority.

- **Mode of Payment**

Mode of payment (Online) - Concerned shall visit Institute website for the fee's payment.



5. AWARDS

5.1 Institute Awards / Medals

S.No.	Name of the Awards	
1	All Rounder Best Boy Student (UG) and All Rounder Best Girl Student (UG)	
2	Best Sportsperson (Boys & Girls)	
3	Best NCC Cadet	
4	Best NSS volunteer	
5	Award for GATE Rank (1-50)	
6	Award for Admission in Best International HEIs for Higher Course	
7	Award for selection in UPSC	
8	Best UG Project & PG Project Award (One in each Program)	
9	Awards for research papers	Outstanding Research Award
10		Premier Research Award
11	Premier Patent Award	

5.2 Scholarship

SCHOLARSHIPS FOR THE FIRST YEAR B.TECH STUDENTS

The Scholarship will be awarded to the students taking admission at NIT Jalandhar on All India Rank (AIR) in JEE (Main) examination. This fellowship shall be given from the student welfare fund. The following three categories will be eligible for the Scholarship from **first year**:

1. A student having All India Rank (AIR) in JEE (Main) up to 3000 shall be awarded scholarship of Rs. 50,000/- in the first year of his/her admission.
2. A student having All India Rank (AIR) in JEE (Main) up to 4000 shall be awarded scholarship of Rs. 30,000/- in the first year of his/her admission.
3. A student having All India Rank (AIR) in JEE (Main) up to 5000 shall be awarded scholarship of Rs. 25,000/- in the first year of his/her admission.

2 SCHOLARSHIP FOR THE 2nd to 3rd YEAR STUDENTS:

Thereafter, a B.Tech. student of each Department who will be the topper in his/her department by securing a CGPA of 9.0 or above without any backlog from the **2nd year** onwards will be awarded Rs. 25,000/- per year. If some other student secures the highest CGPA in the following years i.e., **3rd year/4th year** with more than 9.0 CGPA without any backlog, then he/she will be eligible for the award of Rs. 25,000/- scholarship for that particular year.

Terms and Conditions

The following **terms and conditions** would apply to this scholarship:

- i) A student is eligible for only one scholarship at a time.
- ii) The student will be required to sign an undertaking at the time of award of scholarship that if he/she leaves the course for any reason, he/she shall have to refund the total scholarship amount received.

iii) In addition to the requirement of maintaining the CGPA there should have been no disciplinary action taken against the student.

iv) The scholarships will be awarded on Bharat Dhawani (NITJ Foundation Day) every year.

Central Schemes

S.N.	Name of Scholarship	Provided by
1	Post Matric Scholarships Scheme for Minorities	Ministry of Minority Affairs
2	Merit Cum Means Scholarship for Professional and Technical Courses CS	Ministry of Minority Affairs
3	Post-matric Scholarship for Students with Disabilities	Department of Empowerment of Persons with Disabilities
4	Scholarships for Top Class Education for students with disabilities.	Department of Empowerment of Persons with Disabilities
5	Top Class Education Scheme for SC Students	Ministry of Social Justice & Empowerment
6	Financial Assistance for Education of the Wards of Beedi/Cine/IOMC/LSDM Workers - Post-Matric	Ministry of Labour & Employment
7	National Fellowship and Scholarship for Higher Education of ST Students - Scholarship (Formally Top-Class Education for Schedule Tribe Students) - only for scholarships	Ministry of Tribal Affairs
8	Central Sector Scheme of Scholarship for College and University Students	Department of Higher Education
9	Prime Minister's Scholarship Scheme for Central Armed Police Forces and Assam Rifles	WARB, Ministry of Home Affairs
10	Prime Minister's Scholarship Scheme for Wards of States/UTs Police Personnel Martyred during Terror/Naxal Attacks	WARB, Ministry of Home Affairs
11	Prime Minister's Scholarship Scheme for RPF/RPSF	RPF/RPSF, Ministry of Railway
12	Financial Support to the Students of NER for Higher Professional Courses (NEC Merit Scholarship)	North Eastern Council (NEC), DoNER

UGC Schemes

S.No	Name of Scholarships	Provided by
1	Ishan Uday - Special Scholarship Scheme for North Eastern Region	University Grants Commission - MHRD
2	PG Indira Gandhi Scholarship for Single Girl Child	University Grants Commission - MHRD
3	PG Scholarship Scheme for SC St Students for Pursuing Professional Courses	University Grants Commission - MHRD
4	UGC Net JRF	CB/UGC
5	CSIR-UGC Net	Ministry of Education

State Schemes

S.No	Name of Scholarship	Provided by
1	Post Matric Scholarship for SC Students - Assam	Govt. of Assam
2	Post Matric Scholarship to OBC Students - Assam	Govt. of Assam
3	Post Matric Scholarship to St Students - Assam	Govt. of Assam
4	Umbrella Scheme for Education of ST Children - Post Matric	Govt. of Arunachal Pradesh
5	Centrally Sponsored Post Matric Scholarship Scheme for SC/ST Students-Himachal Pradesh	Govt. of Himachal Pradesh
6	PM-Yasasvi Post Matric Scholarship Scheme for OBC Students-Himachal Pradesh	Govt. of Himachal Pradesh

7	PM-Yasasvi Post Matric Scholarship for Economically Backward Class Students-Himachal Pradesh	Govt. of Himachal Pradesh
8	Mukhya Mantri Protsahan Yojana-Himachal Pradesh	Govt. of Himachal Pradesh
9	Kalpna Chawla Chatravriti Yojana-Himachal Pradesh	Govt. of Himachal Pradesh
10	Indira Gandhi Utkrisht Chatravriti Yojana -Himachal Pradesh	Govt. of Himachal Pradesh
11	Post Matric Scholarship to ST Students -Jammu and Kashmir	Govt. of Jammu and Kashmir
12	Centrally Sponsored Scheme of Post Matric Scholarship for SC Students-Jammu and Kashmir	Govt. of Jammu and Kashmir
13	Centrally Sponsored Scheme of Post Matric Scholarship for ST Students-Ladakh	UT of Ladakh
14	Post-Matric Scholarship for ST Students-Uttarakhand	Govt. of Uttarakhand
15	Post-Matric Scholarship for OBC Students-Uttarakhand	Govt. of Uttarakhand
16	Post Matric Scholarship for EBC Students-Uttarakhand	Govt. of Uttarakhand
17	Post-Matric Scholarship for SC Students-Uttarakhand	Govt. of Uttarakhand
18	Mukhya Mantri Sarvjan Uchha Shiksha Chhatravriti Yojana	Social justice (Rajasthan)
19	Scheme of Post Matric Scholarship for the Scheduled Tribes	Social justice (Rajasthan)
20	Scheme of Post Matric Scholarship to the special backward class	Social justice (Rajasthan)
21	Scheme of Post Metric Scholarship for the Schedule Cast	Social justice (Rajasthan)
22	EBC-DrAmbedkar Post Matric Scholarship for the Economically Backward Class Students-Centrally Sponsored Scheme	Social justice (Rajasthan)
23	Bihar Post Matric Scholarship 2022-23: BC & EBC, OBC	Education Department Govt of Bihar
24	Scholarship and fee Reimbursement of UP state	Department of Social Welfare, Govt. Of UP
25	Mukhya manti Medhavi Vidhyarthi Yojna	Directorate of technical education MP
26	Prime Minister Special Scholarship Scheme – PMSSS	All India Council for Technical Education – AICTE

Other Scholarships

S. No	Name of Scholarship	Provided by
1	Departmental Scholarship [Students being a ward of Employee (Central/State Govt. or other agencies/ Bank/Railway/ Corporation/Defence etc)]	Employer of the parents
2	Sita Ram Jindal Foundation	Sita Ram Jindal Foundation, New Delhi
3	Foundation for Excellence	Foundation for Excellence
4	Shraman Foundation	Shraman Foundation
5	SARC scholarship	kisco

Laptop Scheme

Laptop Scheme

The Institute offers a laptop procurement program tailored for newly enrolled B.Tech students. This scheme provides interest-free loans for purchasing laptops. Students can repay the loan amount in four yearly installments without incurring any interest charges. The management of this scheme falls under the purview of the Office of Dean Students Welfare.

6. STUDENT CLUBS AND SERVICES

6.1 Student Clubs

Institute has different clubs for extra-curricular activities. The students can join different clubs based on their interest.

Chairperson, Cultural Affairs		Dr Indu Saini (ECE)
Deputy Chairman/ Convener Cultural Affairs		Dr Narendra Kumar (IPE)
		Dr Afzal Sikandar (ICE)
Sr.No	Club Name	Coordinator(S)
1	Music Club	Dr Aruna Malik (CSE) Dr Rohit Singh(ECE)
2	Photography & Movie Club	Dr Vimal Kumar (CY) Dr Rajeev Verma (IPE)
3	Dance Club	Dr Vickramjeet Singh (CY) Dr Shveta Ma-hajan (CSE)
4	Literary & Debating Club	Dr Shyam Kiran Kaur (H&M) Dr Shefali Arora Chouhan (CSE)
5	Fine Art Society	Dr Shailja Bawa (CE) Dr Sanjay (ME)
6	Dramatics Club	Dr Sumer Singh Meena (BT) Dr Nagendra Pratap Singh (CSE)
7	Aarogya Club	Dr Tarun Sehgal (MO) Dr Ravi Verma (ICE)
9	Spic Macay Club	Dr Nisha Chaurasia (IT) Dr Neelam Rani (CE)
10	Humour Club	Dr Mahesh Patel (Civil)
11	Food & Flavour Club	Dr Prashant Kumar (CSE) Dr Tarun Chaudhary (BCE)
12	Sanskriti Club	Dr Senthil Kasilingam (CE) Dr Bikash Kumar (IPE)
13	Green Club	Dr Anee Mohanty (BT)
14	Quest Club	Dr Gyan Prakash (H&M) Dr Avani Vyas (IT)
15	Yoga & Meditation Club	Dr Neetu Sood (BCE) Dr Shailendra Bhadauria (IPE)
16	Fashion & Modelling Club	Dr Sangeeta Garg (CHE) Dr Deepika Rani (Mathematics)
17	Social Works Club	Dr Narendra Kumar (IPE)
18	Rural Activity Club	Dr Ashok Kumar (ME)
19	TEDx	Dr Samayveer Singh (CSE)
20	Regional Language Club	Dr Jagwinder Singh (H&M)
21	gaNIT Club	Dr Anupam Yadav (Mathematics)
22	Kausalam	Dr Saurav Katiyar (Mathematics)
23	Media cell	Dr Mohit Kumar (IT) Dr Varun Sharma (IPE)
24	NSO	Dr Vijay Mishra (Sports Section)
25	Ek Bharat Shrestha Bharat (EBSB)	Dr Ashok Kumar Bagha (ME)
26	Website Development and Management Club	Dr Harimurugan (EE)
27	NCC	Dr Dinesh Shukla (ME) (Professor In-charge) Dr Gaurav Kumar (HM) (Coordinator)
28	NSS	Dr Kiran Singh (PY) Dr Harpreet Singh (ME)
29	SARC	Dr Manoj Kumar (ME) Dr Gurraj Singh (IPE)

30	Yodha Club	Dr Gurraj Singh (IPE)
		Dr Mukesh Bajya (TT)
31	Prayaas Club	Dr B S Kaith (CY)
32	Vortex	Dr Amritpal Singh (CSE)
		Dr Urvashi (CSE)
33	Website Development & Management Club	Dr Harimurugan (EE)
		Dr Banalaxmi Brahma (CSE)
34	Standard Club (BIS)	Dr Neelam Rani (Mathematics)
35	APOGEE - The Space Exploration Club	Dr Harleen Dhaliya (PY)
		Dr Sateesh Kumar Awasthi (ECE)
36	Finance Society NITJ -FInNEST	Dr Gaurav Kumar (HM)
37	GDSC - Google Developers Student Club	Dr Indu Saini (ECE)
38	ZEAL Society	Dr Shyam Kiran Kaur (HM)
39	SPICE Society	Dr Afzal Sikander (ICE)
40	SEED Society	Dr D Harimurugan (EE)
41	Super Quant Coders	Dr Simranjeet Singh (IT)
		Dr Neeraj kumar (IT)

• Awards Won by Student Clubs

- ✓ Bhangra team bagged First Prize in PEC Fest'24
- ✓ Bhangra team secured the second position in ZEITGEIST '24, which took place at IIT Ropar.
- ✓ Quest Club participated in Verve'23 at Punjab Engineering College and achieved the second position.
- ✓ Quest Club competed in the IIT Indore Cryptic Hunt 2023 and achieved the 2nd position.
- ✓ Quest Club clinched the first position at the IIT Palakkad Cryptic Hunt 2023.
- ✓ Movie Club achieved the 1st position at Saturnalia held at Thapar Institute of Engineering and Technology.
- ✓ Dramatics Club participated in Confluence '24 at NIT Kurukshetra and secured the second position in the Monoact Competition.
- ✓ Dramatics Club took part in Insomnia '24 at IISER Mohali and achieved the 3rd place in Stageplay.

• राजभाषा (हिन्दी प्रकोष्ठ)

हिन्दी को भारत की राजभाषा के रूप में १४ सितम्बर सन् १९४९ को स्वीकार किया गया। 26 जनवरी 1950 को संविधान के लागू होने के साथ ही इसके अनुच्छेद ३४३ से ३५१ तक राजभाषा के सम्बन्ध में व्यवस्था की गयी। इसकी स्मृति को ताजा रखने के लिये १४ सितम्बर का दिन प्रतिवर्ष हिन्दी दिवस के रूप में मनाया जाता है।

डा बी आर अम्बेडकर क्षेत्रीय अभियंत्रण महाविद्यालय से राष्ट्रीय प्रौद्योगिकी संस्थान के रूप में इसका रूपांतरण सन् 2002 में मानव संसाधन विकास मंत्रालय, भारत सरकार के अंतर्गत हुआ। तत्पश्चात संस्थान में राजभाषा से संबंधित कार्यों व प्रचार-प्रसार हेतु हिन्दी प्रकोष्ठ की स्थापना की गई।

राजभाषा समिति द्वारा भारत सरकार द्वारा समय-समय पर जारी राजभाषा नियमों से संबंधित आदेशों, अनुदेशों का अनुपालन और परिषद् के प्रशासनिक कार्यों में हिन्दी के प्रयोग को सुनिश्चित करना एवं प्रचार प्रसार करना है। साथ ही संस्थान के विभागों/अनुभागों को हिन्दी प्रकोष्ठ, अनुवाद संबंधी सहायता, प्रशिक्षण व अन्य सुविधाएँ उपलब्ध करवाने में महत्वपूर्ण भूमिका निभाता है।

1	डा एच एम मित्तल	अध्यक्ष
2	डा सतीश कुमार अवस्थी	समन्वयक
3	डा नितिन नरेश पंधारे	सह-समन्वयक



NETRA Club



Google Developer Student Club



Team Daksh



Kalakaar



Fine Arts Society



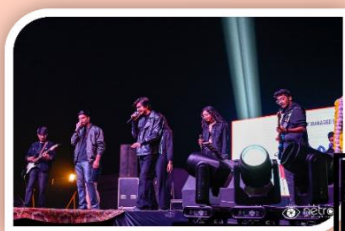
Zeal Society



Spice Club



GLIMPSES OF CULTURAL EVENTS



6.2 Students Services

- **Cashless Medical Insurance**

The institute has established a system whereby students can benefit from cashless medical insurance provided by a third-party insurer. This cashless medical insurance scheme aims to support students in managing their healthcare needs effectively while minimizing financial burdens associated with medical emergencies or regular healthcare services.

- **Counseling Services**

Our Institute provide counseling and a variety of other mental health support.

- **Newsletter**

The Institute brings out quarterly newsletters reflecting activities of students, faculty and staff in each year.

- **Identity**

Every student is required to keep his/her identity card issued by the institute while moving in or outside the campus.

- **Student Grievance Cell**

The Student's Grievance Cell (SGC) desires to promote and maintain a conducive and unprejudiced educational environment. The Cell enables a student to express feelings by initiating and pursuing the grievance procedure in accordance with the rules and regulations of the Institute. 'Student's Grievance Cell' enquires and analyses the nature and pattern of the grievances in a strictly confidential manner. Emphasis on procedural fairness has been given with a view to "the right to be heard and right to be treated without bias"

- **Fit India Movement**

The modern fully equipped Gym Facility, Table Tennis Room, Pool Table Room, Yoga Room, Chess, and Carrom Room has been set up in New Students Activity Centre (SAC). The infrastructure added would serve to promote health consciousness, maintain the fitness and stress buster in modern-day stressful life.

- **Sports and Recreation**

Being a technical institute, it is expected of NIT Jalandhar to deliver the expected results and maintain its reputed standards in academics. But we also constantly strive for excellence in sports. Gymnasium is the facility for indoor sports such as badminton, table tennis etc.

- **Wi-Fi Campus**

Campus-wide Wi-Fi enables students and faculty members to connect with college portal and Internet at any time and any place. High-speed network with OFC across the campus provides seamless connectivity to Internet for students and faculty members over an ample bandwidth of 15 mbps.

- **Students Counseling Service (SCS)**

Faculty members are appointed as Academic Counselors for each batch and each discipline. Academic Counselors assist the students in sorting out their difficulties and dilemmas relating to their living in campus - away from their homes and competitive academic pressures.

- **Students Mentorship Programme (SAMP)**

The Dr B.R. Ambedkar National Institute of Technology Jalandhar introduces the Department Student Academic Mentorship Program (D-SAMP), an innovative initiative under the Institute Level Student Academic Mentorship Program Committee (I-SAMP), designed specifically for undergraduates in July 2023. This program aims to address both academic and non-academic challenges faced by students, fostering a supportive learning environment.

D-SAMP is a peer-to-peer mentorship model where third and final-year undergraduates' mentor fellow department first- and second-year students, respectively, enhancing the academic and overall campus experience. The program not only aids students

in overcoming academic hurdles but also assists in personal growth and development, offering guidance in navigating career paths, developing professional skills, and expanding networks.

Mentors in this program, selected through a rigorous process involving written applications and interviews, are equipped to provide top-quality, unbiased guidance. They play a pivotal role in creating a positive impact on mentees' lives, drawing from their own experiences and challenges at NIT Jalandhar. The mentorship covers a broad spectrum, from academic mentorship in course planning and navigating difficult courses to non-academic guidance on exploring campus life and managing personal struggles.

The program's structure includes a dedicated team of student and faculty coordinators to ensure its effective implementation. Prof Monica Sikka, Department of Textile Technology, is the coordinator, while DrSamayveer Singh, Department of Computer Science & Engineering, and DrNisha Chaurasia, Department of Information Technology, are the Conveners of the I-SAMP. These coordinators are responsible for the smooth conduct of the mentorship program, addressing critical issues, and facilitating mentor-mentee interactions.



7. INFRASTRUCTURE

- **Student's Activity Center (SAC)**

The Students' Activity Centre is the nerve Centre of all the student activities on the campus. The Centre comprises of a club building, gymnasium hall, open-air theatre, and hobbies workshop, which cater to various extra-curricular activities of the students.

- **Canteen**

Day and night canteen facility is available for the students, staff and faculty.

- **Book Shop**

There is a bookshop situated in the shopping complex of the institute, where Xerox facility is also available. Additionally, a separate Xerox facility is available in the library.

- **Medical Facilities**

The Institute has a dispensary in the campus to provide the medical assistance to the students round the clock. There is one regular doctors (one male) and para-medical staff for the required medical service. The consultation is also provided to the members of the faculty/staff residing in the campus. In case of medical emergency, the ambulance van is available 24 hours for taking patient(s) to other hospitals for the necessary treatment.

Name	Designation	Qualification	Email
Dr Tarun Sehgal	Medical Officer	MBBS	sehgal@nitj.ac.in

- **Bank and Post Office**

There are two banks and a post office in the Institute premises to cater the need of the campus residents. Further, the ATMs by State Bank of Patiala and Canara Bank remain functional round the clock.

- **Daily Commute**

The Institute provides Bus transport to facilitate commuting from the campus to the city. There are two regular buses. These Buses ply to and fro, every morning and evening.

- **Open Air Theater**

Open Air Theatre is venue for many events like UTKANSH, Tech Fests, International Conference, movie shows etc.

- **Central Seminar Hall**

The Central Seminar Hall is the venue for all the important events at NIT Jalandhar. The year 2006 can be earmarked as the year in which this building established its presence and value for the Institute by holding Convocation ceremony for the 2001-05 batch. It was inaugurated by the Chief Guest of the ceremony Lord Swaraj Paul. Since then, it has hosted many Convocations, Mega scale events like UTKANSH, Tech Fests, International Conference, etc.

- **Shopping**

The campus has a shopping centre which cater to the needs of the students and residents. The Shopping Centre is located near the residential zone and supplies groceries, provisions and other essential items. There is a bookshop situated in the shopping complex of the institute, where Xerox facility is also available.

- **Gymnasium**

Being a technical institute, it is expected of NIT Jalandhar to deliver the expected results and maintain its reputed standards in academics. But we also constantly strive for excellence in sports. Gymnasium is the facility for indoor sports such as badminton, table tennis etc.

- **Guest House**

Housed in an imposing double storied building and located at a central place, the guest house provides boarding and lodging facilities for the Institute guests and Visitors. The Guest House has a homely atmosphere and ambiance traditionally acclaimed for its environs of hygiene and food of homely relish and richness.

- **Hostels**

There are Ten Boy's Hostels and Three Girl's Hostels. The facilities of reading room, indoor games, washing machines etc. are available in each hostel. Internet facility is provided in most of the hostels. Other facilities like geysers, water purifiers and water coolers are provided in all the hostels.

Newly Developed Infrastructures

- ✓ Additional Sewage Treatment Plant
- ✓ Mega Hostel for Girls Phase-II
- ✓ Extension of Library G+2

Up-coming Infrastructures

- Mega Hostel for Boys Block E
- New Lecture Theatre Complex G+8 Storey
 - 27 Lecture Theatres: 120 capacity each
- Electrical Engineering Block
- Computer Science Extension Block
- Mega Hostel for Boys Phase-III
- Type-IV Residence (54 Nos.)

Extension of Library



Mega Hostel for Boys Block E



8. HOSTELS

There are ten boys' hostels and three girls' hostels. The facilities of reading room, indoor games, etc. are available in each hostel. Internet facility is provided in most of the hostels. Other facilities like LCD/ LED TVs, Geysers, Water purifiers and Water coolers are provided in all the hostels.

8.1 Council of Wardens

S. No.	Name of the Warden	Hostel	Contact No	Email id
1.	Dr Shailendra Bajpai	Chief Warden	9888895253	bajpais@nitj.ac.in
2.	Dr Uma Shanker	Warden, BH - 1	7837588168	shankeru@nitj.ac.in
3.	Dr Manoj Kumar Singh	Warden, BH - 2	9793557548	kumarm@nitj.ac.in
4.	Dr Prashant Kumar	Warden, BH - 3	8351976199	prashantk@nitj.ac.in
5.	Dr Mohit Kumar	Warden, BH - 4	8630990560	kumarmohit@nitj.ac.in
6.	Dr Samayveer Singh	Warden, BH - 5	9953741966	samays@nitj.ac.in
7.	Dr Kailash Chand Sharma	Warden, BH - 6	9887221353	sharmakc@nitj.ac.in
8.	Dr Narendra Kumar	Warden, BH - 7&7E	8982612225	kumarn@nitj.ac.in
9.	Dr Deepak Sahu	Warden, MBH - A	8219215064	sahud@nitj.ac.in
10.	Dr Gyan Prakash	Warden, MBH - B	9709773788	prakashg@nitj.ac.in
11.	Dr Afzal Sikander	Warden, MBH - F	7017638266	afzals@nitj.ac.in
12.	Dr Rakesh Kumar	Warden, MBH - Mess	7349564686	rakeshkumar@nitj.ac.in
13.	Dr Rupali Satavalekar	Warden, GH-1 & GH-2	8265999739	satvalekarr@nitj.ac.in
14.	Dr Jaspal Kaur Saini	Resident Warden, GH-1 & GH-2	7988102918	sainijk@nitj.ac.in
15.	Dr Neelam Rani	Warden, MGH	8630933324	ranin@nitj.ac.in
16.	Dr Deepika Rani	Warden, MGH Phase-II	8439590716	ranid@nitj.ac.in
17.	Dr Tarun Chaudhary	Warden, MGH Phase-II	9882317701	chaudharyt@nitj.ac.in

8.2 General Information Regarding Hostel

1. The hostel facility is available to the regular students who are on the rolls of the institute depending upon the availability. The students who wish to stay with their parents or guardians outside the campus for short period may be allowed to do so with the permission of the competent authority.
2. Hostel wardens are appointed for each hostel to exercise the '*general supervision*' and '*control*' over the inmates.
3. Hostel attendants are available round the clock in hostel. In case of any problem related to the hostel, the student should contact/meet the attendant.
4. In case of illness or medical emergency hostel resident should inform the concerned warden through hostel staff.
5. Possessing any kind of motorized vehicle, e.g. car, scooter, motorcycle, moped etc. by the hostlers is not permitted.
6. Any hostler is allowed to go to his/her home (only) during vacations/weekends against intimation to the hostel office. It is mandatory to fill the hostel leave form and submit to the security guard at hostel gate.
7. Institute does not own the responsibility of theft and loss of any items possessed by the inmates (like laptop, mobile phone, tablet etc.). However, in the interest of inmates it is advised here that they may get their valuables insured.
8. All hostlers are required to follow the hostel timings strictly. The gate timings of the hostels are decided by the competent authority from time to time. In case of un-avoidable circumstances, the students shall have to take special permission in advance from the concerned warden to stay out for late hours.
9. For any kind of meeting in hostel premises, prior written permission/approval is mandatory from the competent authority.
10. The students are required to make proper use of common rooms having newspapers, literature and other articles meant for indoor games. The hostel warden will fix hours for the use of the common room from time to time.

8.3 Hostel Rules

I. Disciplinary Rules

1. No student should be in possession of fire-arm, lethal weapon, alcohol or drugs, poisonous things or intoxicant of any kind in the hostel. If anyone found guilty of possessing any of the said materials is considered breaching the rule and shall be liable to be expelled from the hostel, apart from any other punishment that may be posed to him/her by the Chief Warden /Institute Discipline Committee or by the law of land.
2. Any student found involved in making anti-national comments or statements and sharing it on social media (like Twitter (rebrand as X), Facebook, WhatsApp etc.) will be liable to strict disciplinary action including expulsion from hostel with immediate effect. He /she will be suspended from classes or may be rusticated and will be liable for suitable legal action.
3. No anti-social, gender-based, caste-based, religion based and region-based comments/statements are acceptable from the students' /hostel residents. This will be liable to strict disciplinary action as mentioned in Point No. 2.
4. Any type of students' gathering/campaign/agitation/protest and threatening the faculty/staff/student is not permitted in the premises of hostel/Institute. However, any campaign for the social awareness or wellbeing or social concern may be organized with the prior permission of competent authority.
5. Any type of electrical appliances (electric kettle, heaters, iron, induction etc.) is not allowed in hostel room. If any student is found keeping these things in his/her room, he/she will be liable to disciplinary action.
6. The students should not indulge in activities amounting to an act of indiscipline and misdemeanor such as:
 - ✓ Disturbing the classes, misbehavior with teachers and students taking examination or in any other academic activity.
 - ✓ Interfering with the functioning of various committees.
 - ✓ Defacing the building or any structure by writing slogans and pasting bills and damaging the Institute property.
 - ✓ Rash driving, driving on the pedestrian path, triple riding and parallel driving in restricted areas/Institute Campus.
 - ✓ Making obscene gestures in the campus while roaming and sitting in and around the campus.
 - ✓ Use of mobile phone in the classes, library and examination hall.
 - ✓ Involvement in any fighting, alcohol or drug consumption, smoking, theft in the hostel/Institute premises

All above mentioned Disciplinary Rules (Excluding Rule 5.), shall be applicable to all the students of NITJ (Hostlers and Day Scholars).

The students involved in indiscipline activities will be penalized as per decision of the Institute Discipline Committee. However, may also be directly imposed penalty as mentioned below:

1. Cancellation of admission.
2. Suspension from attending classes.
3. Withholding/withdrawing scholarship/fellowship and other benefits.
4. Debarring from appearing in any test/examination or other evaluation processes.
5. Withholding results.
6. Debarring from representing the Institution in any national or international meet, tournament, youth festival, conference etc.
7. Suspension/expulsion from the hostel.
8. Rustication from the institution.
9. Expulsion from the institution and consequent debarring from admission in other institutions.
10. Fine up to Rs. 50,000/-
11. Collective punishment will be imposed if the individual's committing indiscipline are not identified.

II. Room Allotment Rules

1. The student must be personally present at the time of allotment of rooms and he/she may be allowed to choose his/her roommates.
2. Every boarder is provided with a chair, a table and a cot. He/ she will be responsible for these items and other electrical fittings etc. Furniture and electrical fittings are not to be moved from one room to another.
3. All the boarders shall vacate the hostel rooms before they leave for vacation so that annual repairs/maintenance and white washing etc. may be carried out.
4. All the hostel room articles issued (at the time of room allotment) to the students will be returned/ surrendered to the hostel staff/attendant/clerk before leaving the hostel during or at the end of the session.
5. The room occupants will be responsible for any loss or damage to the items issued to him/her (at the time of room allotment) and the same will be recovered from them as decided by the competent authority.
6. No boarder is allowed to change his/her room without the permission of the Warden and shall have to vacate accommodation as and when asked for.

7. Each room occupant should lock his/her room. Any room found unlocked due to the negligence of the student/resident will be charged fine as decided by competent authority.

III. Mess Rules

The messes of all hostels operate on cooperative basis. A committee of the students from every hostel manages the affairs of the mess under the supervision of wardens.

1. While visiting the dining hall, the common room and canteen, the students should be in their proper dress.
2. All hostel inmates are required to follow the norms of the hostel/mess and required to deposit the mess advance (mess charges, maintenance charges, extra meal charges, service charges etc.) as decided from time to time in each semester by the hostel authorities for availing mess facility. Minimum 55 diets are mandatory for every hostel resident. The remaining balance of mess advance (if any) will be refunded after one year or after the student leaves hostel whichever is earlier.
3. Wastage of food is strictly prohibited; the same may be liable to charging of fine as decided by the competent authority.

IV. Guest Rules for Students

1. No outsider is allowed to stay in the hostel. However, any relative/guest of the student may be allowed in the Hostel/Institute Guest House with prior permission of the competent authority.
2. The permissible guests include father/ brother and mother/sister (in case of girl students) provided he/she comes from a far-off place.
3. Female guests are not permitted to stay in boys' hostel. Likewise, male guests are not permitted to stay in the girls' hostel.
4. A boarder keeping a guest without the prior permission of the Warden is liable to be penalized.
5. Students/room occupants are not allowed to stay/sleep in the room of fellow student during daytime/night even with his/her consent.

V. Withdrawal/Expulsion from the Hostels

1. After the general allotment, application for withdrawal from the hostel should be counter-signed by the father/guardian and submitted to the hostel warden. It should also be ensured that the student does not owe any hostel dues.
2. The Director/ DSW/ Chief Warden may expel a boarder from the hostel, if he/she is in the habit of staying away without intimation to the hostel office, or hostel fee and mess dues are not cleared in time.
3. Students who do not clear their dues, such as dues of the hostel mess, canteen, fine etc. by the prescribed date will not be registered for the subsequent semester until and unless, they clear all their dues and submit "No Dues Certificate" from the Account Section and the concerned hostel warden.
4. The students who leave the Institute after completing the degree requirements or otherwise, their result as well as the provisional certificate/ degree will be withheld till "NO DUES CERTIFICATE" is produced.
5. No boarder shall leave the hostel without handing over the charge of the room as per the inventory issued at the time of allotment.



9. DEPARTMENTS

9.1 Bio-technology

Departmental Website Link: <https://departments.nitj.ac.in/dept/bt/home>

Faculties

Name		Designation	Qualification	Email
	Dr A K Jana	Professor	PhD (IIT Delhi)	janaak@nitj.ac.in
	Dr Nitai Basak	Associate Professor	PhD (NIT Jalandhar)	basakn@nitj.ac.in
	Dr Nikhil G N	Assistant Professor (Grade-I)	PhD (CSIR-Indian Institute of Chemical Technology, Hyderabad)	nikhilgn@nitj.ac.in
	Dr M K Sah	Assistant Professor (Grade-I)	PhD (NIT Rourkela)	sahmk@nitj.ac.in
	Dr Indu Chauhan	Assistant Professor (Grade-I)	PhD (IIT Roorkee)	chauhani@nitj.ac.in
	Dr S S Meena	Assistant Professor (Grade-I)	PhD (GGS Indraprastha University, Delhi)	meenass@nitj.ac.in
	Dr Anee Mohanty	Assistant Professor (Grade-I)	PhD (Nanyang Technological University, Singapore)	mohantya@nitj.ac.in

	Dr P R Rout	Assistant Professor (Grade-II)	PhD (IIT Bhubaneswar)	routpr@nitj.ac.in
	Dr Chandni Patra	Assistant Professor (Grade-II)	PhD (IIT Guwahati)	patracc@nitj.ac.in

Academic Programme

- **Undergraduate Programme**

B Tech in Biotechnology

- **Postgraduate Programmes**

MTech in Biotechnology

PhD Programme in Biotechnology

Laboratory Facilities

- Bioprocess Engineering Laboratory
- Bioseparation Engineering Laboratory
- Cell and Tissue Culture Laboratory
- Biological wastewater treatment Laboratory
- Molecular Biology and Genetic Engineering Laboratory
- Microbiology and Biochemistry Laboratory
- Immunology Laboratory
- Bioinformatics Laboratory
- Bioprocess modeling and Simulation Laboratory

Research and Development

The faculty members of the department are actively engaged in research in the areas of Bioprocess engineering, Environmental Biotechnology, Nano Biotechnology, Waste management, Biopolymers, Enzyme Technology, Algal Biotechnology, Industrial Biotechnology, Biosynthesis of value-added chemicals, Bioenergy/Biofuels, Bioprocess and Bioreactor Design, Bio hydrogen, Bioprocess Optimization, Bioremediation, Microbial and Environmental Biotechnology, Metabolites and Bio refinery, Bio plastics, Enzyme and Protein Engineering, Biomaterials, Tissue Engineering, Nano-Biotechnology, Waste Valorization, Computational Biology, Drug Delivery System, Aerogels/hydrogels, Environmental Engineering, Bioinformatics, Proteomics, Environmental Remediation, Biofilms, Wastewater treatment and Applied Microbiology.

Sponsored Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (in Rs/-)
1	Dr S S Meena (PI), DrAnee Mohanty, Dr Anjireddy, Dr Nikhil G N	DST	Establishment of Science Technology and Innovation (STI) Hub at NIT Jalandhar (2020-2023)	2.49 Cr
2	Dr Nitai Basak (PI)	DST, SERB (TARE)	Bioprospection of Lignocellulose-rich agricultural waste using oleaginous fungi for its potential in Bioenergy sector (2022-2025)	18.3 Lac

3	Dr Jatinder Kumar Ratan (PI), Dr Nitin Naresh Pandhare and Dr Sumer Singh Meena (Co-PI), Dr Nikhil G N (Co-PI)	Trident Group	Color Reduction of Effluent from ETP of Dyeing Unit (2022-2024)	5.31 Lac
4	Prof Saugat Hazra, IIT Roorkee (PI) Dr M K Sah (Co-PI, NIT Jalandhar	ICMR (Govt. of India): INTERMEDIATE EXTRAMURAL GRANTS	Development and Clinical Validation of an Artificial Intelligence-empowered antibiotic susceptibility device towards optimizing antimicrobial therapy regimen in leukaemia & bone marrow transplant patients	4.8 Cr
5	Dr P R Rout (PI) Prof Qiuyan Yuan (University of Manitoba, Canada) Dr Shaikh Zia Ahammad (IIT Delhi) DrM. Sudhakar Reddy (TIET Patiala) Dr Dwarikanath Ratha (TIET Patiala)	DST-IC-IMACTS (Indo-Canadian)	Phosphorous Recovery from Wastewater for Safeguarding Global Phosphorous Sustainability and Food Security Denitrifying Phosphorous Accumulating Organisms: DPAOs have the Merits (2023-2025)	1.1 Cr
6	Dr P R Rout (PI)	SERB, Government of India	Intensification of Mainstream Nitrogen Removal and Phosphorus Recovery from Low C/N Wastewater by Coupling Archaeal Ammonium Oxidation-Anammox Modified Denitrifying Phosphorous Removal: A Sustainable and Circular Bioeconomy Approach (2023-2024)	17.6 Lac

Consultancy Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (In Lac)
1.	Dr Indu Chauhan (PI)	RICO Auto Industries	In-situ immobilization of ZnO nanoparticles on natural and synthetic fibers	1.0 Lac

Departmental Society

Society of Biotech Engineers & Researchers (SOBER) is a departmental society of Biotechnology department, NIT Jalandhar. It constitutes the faculty as advisor and students as secretary, joint secretary and members. SOBER organizes various events during technical fest "TechNITI" and cultural fests. It also organizes Fresher's and Farewell party for the departmental students, teaching and non-teaching staff.

SOBER is also actively engaged in organizing webinars and expert talks. Keynote speakers from various industries, national and international institutes deliver the talks in online or offline mode which helps the students in their academic as well as professional career.

Achievement of Students

- Gurjant Singh (AIR-4) and Shreya (AIR-6) in GATE-2023
- Faiz Ahmad, AIR 35, GATE 2024
- Shreshth Pal bagged highest package (11 Lakhs)- Truminds Software systems

9.2 Chemical Engineering

Departmental Website Link: [Chemical Engineering \(nitj.ac.in\)](http://nitj.ac.in)

Faculties

Name	Designation	Qualification	Email	
	Dr M K Jha	Professor (HAG) (on lien)	PhD (IIT-ISM Dhanbad)	jhamk@nitj.ac.in
	Dr Ajay Bansal	Professor	PhD (Panjab University, Chandigarh)	bansala@nitj.ac.in
	Dr Renu Gupta	Professor	PhD (NIT Jalandhar)	bansalr@nitj.ac.in
	Dr Poonam Gera	Associate Professor & Head	PhD (NIT Jalandhar)	chadhap@nitj.ac.in
	Dr Sangeeta Garg	Professor	PhD (NIT Jalandhar)	gargs@nitj.ac.in
	Dr S Bajpai	Professor	PhD (NIT Jalandhar)	bajpais@nitj.ac.in
	Dr N K Srivastava	Associate Professor	PhD (NIT Jalandhar)	srivastavank@nitj.ac.in

	Dr Raj Kumar Arya	Associate Professor	PhD (IIT Bombay)	aryark@nitj.ac.in
	Dr Jatinder Kumar Ratan	Associate Professor	PhD (NIT Jalandhar)	kumarj@nitj.ac.in
	Dr Neetu Divya	Assistant Professor (Grade-I)	PhD (NIT Jalandhar)	divyan@nitj.ac.in
	Dr Anurag Kumar Tiwari	Assistant Professor (Grade-I)	Post Doc (Waterloo, Canada) PhD (IIT Kanpur)	tiwaria@nitj.ac.in
	Dr Amit Dhruv Saran	Assistant Professor (Grade-I)	Post PhD (USA) PhD (IIT Bombay)	saranad@nitj.ac.in
	Dr Nitin Naresh Pandhare	Assistant Professor (Grade-I)	PhD (IIT Roorkee)	pandharenn@nitj.ac.in
	Dr Anjireddy Bhavanam	Assistant Professor (Grade-I)	Post Doc (IIT Guwahati) PhD (NIT Warangal)	bhavanama@nitj.ac.in
	Dr Shashikant Yadav	Assistant Professor (Grade-I)	PhD (IIT Bombay)	shashikanty@nitj.ac.in

	Dr Deepak Sahu	Assistant Professor (Grade-I)	PhD (IIT Roorkee)	sahud@nitj.ac.in
	Dr D Giribabu	Assistant Professor (Grade-I)	PhD (IIT Kanpur)	giribabud@nitj.ac.in

Academic Programme

- **Undergraduate Programme**

B Tech in Chemical Engineering

- **Postgraduate Programmes**

MTech in Chemical Engineering

PhD Programmes in Chemical Engineering

Laboratory Facilities

- Fluid Mechanics Laboratory
- Mechanical Operation Laboratory
- Chemical Technology Laboratory
- Heat Transfer Laboratory
- Energy Technology Laboratory
- Mass Transfer Laboratory
- Chemical Reaction Engineering Laboratory
- Process Control
- Pollution Abatement Laboratory
- Post graduate Research Lab
- Departmental Instrumentation Lab
- Computational & Simulation Lab
- Computer Centre

Research and Development

The faculty members of the department are actively engaged in research in the areas of Chemical Engineering, Biochemical Engineering, Petroleum Engineering, Energy and Environment, Biodegradable Plastics, Multiphase Flow, Conversion of Bio-Mass to Fuels and Chemicals, Kinetic Modeling, Nanoplasmonics, Bio-Fluid Dynamics, Microfluidic, Complex Rheology Fluids, Fluid Mechanics, Heat Transfer, Process Safety, Fire Dynamics, Developing Nanoparticle-Based Biosensors For Glucose and similar Biological Analyses, CO₂ Sequestration, Multiphase Reactions, Mineral Carbonation, Waste Utilization and Management, Analytical, Numerical and Soft-Computing Modeling and Optimization of Reaction Processes, Social And Economic Engineering, Edible Film etc.

Sponsored Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (Rs.)
1.	Dr Shashikant Yadav	SERB-DST New Delhi	Modelling and experimental validation of the declining rate of wollastonite mineralization in CO ₂ -rich aqueous media 2024-2027	Rs. 3932192
2.	Dr Raj Kumar Arya	SERB-DST New Delhi	Synthesis and Drying Studies of Antimicrobial Polymeric Coatings: Simulation & Experimental Studies, 11-03- 2024 to 10-03-,2027	Rs 36,56,664/-
3.	Dr Raj Kumar Arya	SERB-DST New Delhi	Drying of Polymer – Polymer – Solvent Coatings: Experimental and Simulation Study, 20 -02- 2017 – 19-02- 2021	Rs 41.20910 /-
4.	Dr Raj Kumar Arya	KEP Engineering, Services Pvt. Ltd., Hyderabad.	Experimental and Simulation Studies of Agitated Thin Film Dryer, 09-06-2023 to 08-06-2024	Rs 5,00,000/-
5.	Dr Raj Kumar Arya	Akemi Minerals, Ahmedabad, Gujarat-382110	Blending And Mixing Studies of Various Clays and Minerals for High-Performance Coatings, 15-06-2023 to 14-06-2025	Rs 7, 50,000/-
6.	Dr Raj Kumar Arya	Pukhraj Paints, Jainpur Industrial Area, Barra-2, Kanpur	Green Solutions for Sustainable Paints: Cost Effective Water-Based Emulsion Paints, 21-06-2023 to 31-12-2024	Rs 4,00,000/-
7.	Dr Amit D Saran	SERB-DST New Delhi	Colloidal Quantum Dots as Enhancers for Photocatalytic Hydrogen Generation 28-12-2021 to 24-06-2024	Rs, 28,31,400/-
8.	Dr D Giribabu	SERB-DST New Delhi	Development of smart magneto-Rheological elastomers, gels and fluids using metal oxide-carbon nanofibers and liquid metals 16-01-2023 to 15-01-2026	Rs 4180000
9.	Dr J K Ratan & Dr Deepak Sahu	STARS, MoE	Formulation of Low-cost and Effective Self-cleaning Cement” sponsored by MoE under STARS from 2023 to 2026	Rs. 3300000
10.	Dr Anjireddy Bhavanam	DBT	Selective depolymerization of Industrial waste lignin to functional chemicals (Approved)	Rs 3960264/-

Departmental Society

Indian Society for Technical Education (ISTE)

Indian Society for Technical Education (ISTE) is a national, professional, non-profit society registered under the Societies Registration Act of 1860. First, started as the Association of Principals of Technical Institutions (APTI) in 1941, then, it was converted into “Indian Society for Technical Education” in 1968, with a view to enlarge its membership and activities to the cause of technological education. Being the only national organization of educators in the field of Engineering and Technology, ISTE effectively contributes in various missions of the Union Government. The strength of ISTE is the strong base it has in technical education institutions in the country. ISTE has an Executive Council at National level. It has active membership of more than 128500 technical teachers, 535000 student members, more than 2740 institutional members (including IITs, IISc., NITs and other leading technical institutions), 1414 faculty chapters and 1505 students’ chapters at National level and 19 Sections at State Level.

Indian Institute of Chemical Engineers

Doaba Regional Centre of Indian Institute of Chemical Engineers was established in the year 2002 with its office at the Department of Chemical Engineering, National Institute of Technology Jalandhar. The DRC has three student chapters located at National Institute of Technology, Hamirpur, Shaheed Bhagat Singh State Technical Campus, Ferozepur and Beant College of Engineering and Technology, Gurdaspur. The Centre has successfully organized SCHEMCON- 2008, CHEMCON-2012 and organized 2nd National Executive Council meeting of IICChE in 2016. The IICChE NIT Jalandhar Student Chapter was also awarded Ambuja Award in the year 2009 during 62nd Annual Session of IICChE at Andhra University, Vishakhapatnam. The experts from leading research and technical educational institutes, industries and related business houses contribute to the wide variety of activities of the centre.

Chemical Engineering Students Society (ChESS)

ChESS regularly organizes various events like group discussions and quiz competitions, Fresher's, Farewell etc. Chemical Engineering Students Society (ChESS) organizes technical events in TechNITI, an annual Techno Managerial fest of NIT, Jalandhar.

Achievement of Students

Students (Batch-2020) have got Paid Summer Internship in reputed organizations.

9.3 Chemistry

Departmental Website Link: <https://departments.nitj.ac.in/dept/cy/home>

Faculty

Name of Faculty	Designation	Qualification	Email
 Dr Balbir Singh Kaith	Professor (HAG)	PhD (Panjab University Chandigarh)	kaithbs@nitj.ac.in
 Dr N C Kothiyal	Professor (HAG)	PhD (IIT-ISM Dhanbad)	kothiyalnc@nitj.ac.in
 Dr Rajeev Jindal	Associate Professor & Head	PhD (Panjab University, Chandigarh)	jindalr@nitj.ac.in
 Dr Sangeeta Obrai	Associate Professor	PhD (GNDU, Amritsar)	obrais@nitj.ac.in

	Dr Jaspreet Kaur Rajput	Associate Professor	PhD (Punjabi University, Patiala)	rajputj@nitj.ac.in
	Dr Uma Shanker	Associate Professor	PhD (IIT, Roorkee)	shankeru@nitj.ac.in
	Dr Vimal Kumar	Associate Professor	PhD (GNDU, Amritsar)	bhardwajvk@nitj.ac.in
	Dr Vickram Jeet Singh	Associate Professor	PhD (GNDU, Amritsar)	singhvj@nitj.ac.in
	Dr Rakesh Kumar	Associate Professor	PhD (ETH Zurich Switzerland)	rakeshkumar@nitj.ac.in
	Dr Sadhika Khullar	Assistant Professor	PhD (Indian Institute of Science Education and Research Mohali)	khullars@nitj.ac.in
	Dr Sanjeeb Sutradhar	Assistant Professor	PhD (IIT Madras)	sutradhars@nitj.ac.in

Academic Programme

A. Undergraduate Programme

- Undergraduate Programme: (Chemistry Course Theory and Practical)
- Undergraduate Programme: (Environmental Sciences Course Theory and Practical)

Open Electives:

- Polymer Chemistry (CYOE-402) B. Tech Programme
- Nanoscience and Nanotechnology (CYOE-403) B. Tech Programme
- Scientific Documentation and Intellectual Property Rights (CYOE-543) - M.Sc./ M. Tech and PhD Programme

B. Postgraduate Programmes and Intake

- M. Sc. in Chemistry
Intake = 39

C. PhD Programme

- Full and Part Time PhD Programme in Chemistry
Student per faculty from Institute Fellowship per year (CSIR, JRF, INSPIRE, RGNF under Projects).

Laboratory Facilities

- Chemistry Laboratories (UG)
- Postgraduate Organic Chemistry Laboratory
- Postgraduate Inorganic Chemistry Laboratory
- Postgraduate Physical Chemistry Laboratory
- Research & Development Laboratories:
- Polymer and Nanotechnology Laboratory
- Natural Product and Medicinal Chemistry Laboratory
- Advanced Synthesis and Catalysis Research Laboratory
- Inorganic Green Chemistry Laboratory
- Smart Materials Research Laboratory
- Material Testing Laboratory
- Analytical Chemistry Lab
- Nano Surface and Environmental Research Laboratory

Research and Development

The Department has well-furnished practical and research labs, which are well equipped to facilitate the research process. The facilities, mainly laboratories, have been designed for research with an applied focus, and for the advancement of commercial innovation and enterprise development. The Department has a suite of laboratory facilities that house specialist equipment to meet the needs of industry on demand.

- **Density and Sound Velocity Meter**
Anton Paar Density and Sound Velocity Meter for Physio-chemical related problems of the industries.
- **Automated Micro Viscometer**
Anton Paar AMVn Automated Micro Viscometer for Physio-chemical studies.
- **Gas Chromatograph**
Gas Chromatograph for the analysis of aromatic hydrocarbons present in air, water and soil.
- **Dip Coating Unit**
Dip Coating Unit for carrying out dip coating on glass slide.
- **Fluorescence spectrophotometer**
To study the fluorescence properties of samples
- **Surface area analyser**
To find the surface area of materials.
- **UV-Vis. Spectrophotometer**
For finding the concentration and absorbance of samples
- **FTIR Spectrophotometer**

For the characterization organic and inorganic samples.

- **Digital Refractometer**
For the measurement of reflective Index.
- **Surface Tensiometer**
For the measurement of Surface Tension and CMC.

Sponsored Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (In Lac.)
1.	Dr Jaspreet Kaur Rajput	Ministry of Education- STARS IISc	Fluorescence as Well as Smart Phone Assisted RGB Sensing of Histamine in Commercial Fishes using highly Conjugated Tetrapodal-Metal Fluorescent Probes-A Tool to Measure Food Freshness / 3 years	30 Lac
2.	Dr Rupesh Kumar/ Dr Jaspreet Kaur Rajput	SERB	Design and Development of Reagentless Photochemical and Mechano-chemical Methodologies for the Synthesis of Biologically Potent Heterocycles / 3 years	18.3 Lac
3.	Dr Uma Shanker	SERB-DST	Development of carbon quantum dots based bionanocomposites and smart phone assisted RGB technique for sensing of melamine and histamine in real food samples as well as photocatalytic removal	~50Lakhs
4.	Dr Vickram Jeet Singh	SERB-DST	Smart Wettability Surfaces Instigating Spontaneous Autonomous Contact Line Motion for Droplet Based Sensing and Self-Cleaning Surfaces	3450972

Departmental Society

- Creative Chemistry Club (C³)

Achievement of Students

1. Outstanding Research Award conferred on Bharat Dhvani Foundation Day to Ms. Pratibha.
2. Research Award conferred on Bharat Dhvani Foundation Day to Ms. Vasudha
3. Presented a poster and titled on Synthesis and Characterization of Lead-Based Coordination Polymer for Oxygen Evolution Reactions" National Science Day and awarded Best poster presentation on 28th February 2023 at NITJ to Janak
4. Participated in Cricket sports tournament and secured 4th position in AAROHAN-2023 held at IIT-ROPAR from 17th-19th March 2023 to Mr. Janak
5. Participated in Inter-Technology University, Cricket Men championship 2022-2023 (ITUSA) and secured gold medal held at Thapar Institute of engineering & technology, Patiala, Punjab from 14-16 April 2023 to Mr. Janak
6. Participated in Super 9 cricket tournament and secured first position, held at NITJ, from 22-28 April, 2023 to Mr. Janak.
7. Organized and served as Event supervisor in the National conference on recent advances in school education (Shiksha mahakumbh), held at NITJ from 09-11 June, 2023 to Mr. Janak
8. Participated in inter-year sports cricket tournament and secured 2nd position, held at NITJ from 22-30 August- 2023 to Mr. Janak.
9. Organized and served as Overall coordinator in the Engineers Day held at NITJ from 15 September, 2023 to Mr. Janak
10. Participated in 2nd departmental sports meet-2023 and won the best sports person of the day award, held at NITJ from 5th October – 2023 to Mr. Janak
11. Organized and served as the coordinator for the 2nd departmental sports meet-2023, held at NITJ from 5th October – 2023 to Mr. Janak
12. Participated in inter hostel sports tournament-2023 between BH6, 7 & 7E and secured first position in cricket and tug of war held at NITJ from 3-5 November – 2023 to Mr. Janak
13. Organized and served as the coordinator for the inter hostel sports tournament-2023 held at NITJ from 3-5 November 2023 to Mr. Janak
14. Presented a poster and titled on Lead-Based Coordination Polymer for water splitting Reactions" National Science Day and awarded consolation prize presentation on 28th February 2024 at NITJ to Mr. Janak.

NET/GATE

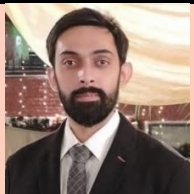
Sr. No.	Name	Score	Rank
1.	Shubham	1772	452
2.	Tanmya	4606	332
3.	Jyotisma	3518	367

9.4 Civil Engineering

Departmental Website Link: <https://departments.nitj.ac.in/dept/ce/Home>

Faculty

	Name	Designation	Qualification	Email
	Dr A K Agnihotri	Professor (HAG) & Head	PhD (UOR)	agnihotriak@nitj.ac.in
	Dr S P Singh	Professor (HAG)	PhD (UOR)	spsingh@nitj.ac.in
	Dr H S Chore	Associate Professor	PhD (NIT Nagpur)	chorehs@nitj.ac.in
	Dr Davinder Singh	Assistant Professor Grade - I	PhD (NIT Jalandhar)	singhdj@nitj.ac.in
	Dr Kanish Kapoor	Assistant Professor Grade - I	PhD (NIT Jalandhar)	kapoork@nitj.ac.in
	Dr Mahesh Patel	Assistant Professor Grade - I	PhD (IIT Guwahati)	patelm@nitj.ac.in

	Dr Navdeep Singh	Assistant Professor Grade - I	PhD (NIT Jalandhar)	navdeeps@nitj.ac.in
	Dr K. Senthil	Assistant Professor Grade - I	PhD (IIT Roorkee)	kasilingams@nitj.ac.in
	Dr Shailja Bawa	Assistant Professor Grade - I	PhD (NIT Jalandhar)	bawas@nitj.ac.in
	Dr Shashi Kant Sharma	Assistant Professor Grade - I	PhD (IIT Roorkee)	sharmask@nitj.ac.in
	Dr Neelam Rani	Assistant Professor Grade - I	PhD (IIT Roorkee)	ranin@nitj.ac.in
	Dr Rupali Satavalekar	Assistant Professor Grade - I	PhD (IIT Roorkee)	satavalekarr@nitj.ac.in
	Dr Abhishek Sharma	Assistant Professor Grade - II	PhD (IIT BHU, Varanasi)	abhisheks@nitj.ac.in
	Dr Arya Anuj Jee	Assistant Professor Grade - II	PhD (IIT Guwahati)	jeeaa@nitj.ac.in

	Dr Koteswaraarao Jadda	Assistant Professor Grade - II	PhD (IIT Patna)	jaddak@nitj.ac.in
	Dr Roop Kishor	Assistant Professor Grade - II	PhD (NIT Allahabad)	kishorr@nitj.ac.in
	Dr Vinil Kumar Gade	Assistant Professor Grade - II	PhD (IIT Bombay)	gadevk@nitj.ac.in
	Dr Phibe Khalkho	Assistant Professor Grade - II	PhD (IIT Roorkee)	khalkhop@nitj.ac.in

Academic Programmes

- **Undergraduate Programme**

B Tech in Civil Engineering

- **Postgraduate Programmes**

M Tech in Structural and Construction Engineering

M Tech in Geotechnical and Geo-Environmental Engineering

PhD Programmes in all Civil Engineering related areas such as Structural Engineering, Concrete Technology, Geotechnical Engineering, Transportation Engineering, Environmental Engineering, Water Resources Engineering, Construction Engineering and Management.

Laboratory Facilities

- CAD Laboratory
- Computation Laboratory
- Concrete Technology Laboratory
- Environmental Engineering Laboratory
- Geotechnical Engineering Laboratory
- Hydraulic Engineering Laboratory
- Impact Testing Laboratory
- Structural Analysis Laboratory
- Structures Testing Laboratory
- Survey Engineering Laboratory
- Transportation Engineering Laboratory

Research Areas

The faculty members of the department are actively engaged in research in the areas of Planning, analyzing and designing bridges, Utilization and Management of Agriculture Wastes in Developing Sustainable Building Materials, Geotechnical behavior of recycled waste materials, Impact and Computational Mechanics, Durability behavior of concrete composites, recycling of materials in concrete, concrete material science, self-compacting concrete, high volume fly ash concrete, fiber-reinforced concrete, Highway materials for rigid, flexible, and semi rigid pavements, subgrade stabilization, Design of rigid and flexible pavements, Waste utilization in pavements, Overlaying, repairing and rehabilitation of pavements and aerodynamic analyses, wind tunnel experiments, and computational simulations to assess wind-induced effects on buildings.

Ongoing/Approved Sponsored Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (In Lac.)
1.	Dr HS Chore	Ministry of Electronics and Information Technology (MeitY)	Integrating Drone Based Pothole Detection and Volume Estimation using Machine Learning for Precise Budgeting in Road repair Planning	2.5 Lacs
2.	Dr Mahesh Patel	CRG, SERB, Govt. of India	Investigations of Flow and Bed-morphology in Steep Mountain Streams	65.76 Lacs
3.	Dr Mahesh Patel	SPARC, Ministry of Education (Status: Approved on 07.04.24)	AI-Enhanced Cloud-Based Lightweight Framework for Flash Flood Risk Assessment and Hazard Mapping in Steep Mountain Channels	Proposed budget (183 Lacs)

Completed Sponsored Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (In Lac.)
1.	Prof AK Agnihotri	MHRD	Engineering Properties of Fibre reinforced soil and its applications to Shallow foundations"	16 Lakhs
2.	Prof SP Singh	Department of Science and Technology (DST)	Material Characterization and Testing of Concrete	102 Lacs
3.	Prof SP Singh	UK India Education and Research Initiative (UKIERI)	Sustainable High Performance Concrete Infrastructure	GBP 128928.00
4.	Dr Navdeep Singh	CSIR-New Delhi	Waste utilization in Self-compacting Concrete: Optimization and Assessment of Environmental Benefits	12.74 Lacs
5.	Dr K Senthil	The Royal Society, UK	Safeguarding civil underground tunnels against terrorist blast and explosion shocks	12.40 Lacs
6.	Dr K Senthil	Department of Science and Technology – Russian Foundation for Basic Research (DST-RFBR)	Quasi-static and dynamic strength of ultrahigh performance concrete	26.6 Lacs

Consultancy Projects

As part of its efforts in forging a close relationship with the industry, the department maintains a close liaison with various government/public and private sector organizations by virtue of rendering them consultancy services in most of areas viz. analysis and design of steel and concrete structures, material testing, geotechnical investigations, design of pavements and structural health monitoring/ stability analysis, wind engineering and survey related work. In addition to that the extensive work in the field of environment and water resources engineering such as treatment of leachate, design and checking of treatment plants, sewerage network design and checking, scour analysis, design and checking of dams are being carried out. In which department has completed around cumulative of 7.5 crores of consultancy services in last 3 years.

Departmental Society

- SocCEr (Society of Civil Engineers) in collaboration with the Department of Civil Engineering - NIT Jalandhar provides a unique platform for all budding civil engineering students, creating an opportunity to network and showcase their talent. True to its motto of "Forever building strong foundations". At SocCEr, we are inquisitive about connecting and

collaborating with students, educators and industry professionals to enhance the practical understanding and advanced applications of civil engineering.

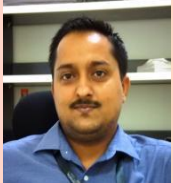
Achievement of Students

- Ayush Rathore 2nd Year student got 3rd position in Open Hack 2024 organized Indian Institute of Science (IISc) Bangalore.
- Research Scholar Ajaz Mir has received the prestigious Overseas Doctoral Fellowship through SERB Alberta, Canada.

9.5 Information Technology

Departmental Website Link: [Information Technology \(nitj.ac.in\)](http://nitj.ac.in)

Faculty

Name	Designation	Qualification	Email
 Er D K Gupta	Associate Professor and Head	M.Tech CSE (NIT JALANDHAR)	guptadk@nitj.ac.in
 Dr Vijay Kumar	Associate Professor	PhD Computer Engineering (National Institute of Technology, Kurukshetra, Haryana)	vijayk@nitj.ac.in
 Dr Mohit Kumar	Assistant Professor (Grade-I)	PhD in Cloud Computing (IIT Roorkee)	kumarmohit@nitj.ac.in
 Dr Nisha Chaurasia	Assistant Professor (Grade-I)	PhD Cloud Computing (ABV-IIITM Gwalior)	chaurasian@nitj.ac.in
 Dr Kusum Bharti	Assistant Professor (Grade-I)	PhD Computer Science Engineering (ABV-IIITM Gwalior)	bhartik@nitj.ac.in
 Dr Avani Vyas	Assistant Professor (Grade-II)	PhD (IIT Ropar)	vyasa@nitj.ac.in
 Dr Naveen Kumar Gupta	Assistant Professor (Grade-II)	PhD Computer Science and Engineering (NIT Allahabad, Prayagraj)	guptank@nitj.ac.in

	Dr Neeraj Kumar	Assistant Professor (Grade-II)	PhD (IT)IoT& AI SIST, BBAU (Central University, Lucknow)	kumarneeraj@nitj.ac.in
	Dr Simranjit Singh	Assistant Professor (Grade-II)	PhD TIET Patiala (Computer Science and Engineering)	singhsimranjit@nitj.ac.in
	Dr Jaspal Kaur Saini	Assistant Professor Grade-II	PhD (CSE), PEC Chandigarh	sainijk@nitj.ac.in

Academic Programme

- **Undergraduate Programme**
B Tech in Information Technology
- **Postgraduate Programmes**
MTech in Data Analytics
PhD Programmes in Information Technology

Laboratory Facilities

- Web Technology Lab
- Computer Algorithms Lab
- Computer Vision and Machine Intelligence
- Operating System and Networking Lab

Research and Development

The faculty of the Information Technology department is constantly involved in research activities which includes publishing research outcomes in reputed journals/ conferences, organizing research-based workshops such as faculty development programs/ short-term courses on hot research topics, and hands-on sessions for research, delivering research talks in reputed institutes, and many more. The current research focuses of the department are Meta heuristic techniques, Deep Learning, Data Clustering, Image Mining, Soft Computing, Machine Translation, Brain-Computer Interface, Online Social Networks, Natural Language Processing, Cloud Computing, Fog/Edge Computing, IoT, Artificial Intelligence, Blockchain, Social Network Analysis, Smart Healthcare, EHealth, Networking and Communication, Data Science, Wireless Sensor Networks, Security in Imaging, Remote Sensing, Hyperspectral Data Analysis, Soil Qualification, Erosion, Network Security, and Robotics.

Departmental Society

The Cybernauts Society: The motto of this club is to be part of communities, working with leadership, management and other personal development skills. At Cybernauts, Society of Information Technology branch, members collaborate and engage in a diverse array of activities and events aimed at fostering learning, development, and cultural exploration through workshops, seminars, hackathons, and competitions. Cybernauts provide opportunities for members to acquire new skills, exchange knowledge, and forge lasting connections with peers and industry professionals. The main focus is to highlight booming topics which are new in the market, such as actual/virtual reality, cloud computing, cyber security, UI/UX and many more to give exposure for higher placements/internships.

Departmental Club

Super Quant Coders Club: The guiding principle of the "Super Quant Coders," Club is to cultivate inclusive communities while honing leadership, management, and personal development skills. As part of the Department of Information Technology branch, members collaborate and partake in a diverse range of activities and events. Through workshops, seminars, and competitions,

we strive to foster learning, development, and cultural exploration. Our aim is to provide ample opportunities for members to acquire new skills, exchange knowledge, and build lasting connections with peers and industry professionals. With a primary focus on emerging topics such as quantum computing, supercomputing, IoT, and Big Data Analytics, we aim to prepare our members for lucrative placements and internships in the ever-evolving tech landscape.

9.6 Computer Science and Engineering

Departmental Website Link: [Computer Science & Engineering \(nitj.ac.in\)](http://nitj.ac.in)

Faculty

Name	Designation	Qualification	Email	
	Dr Ajay K Sharma	Professor (on lien) as Director NIT Delhi	PhD (NIT Kurukshetra)	sharmaajayk@nitj.ac.in
	Dr A L Sangal	Professor (HAG)	PhD (NIT JALANDHAR)	sangalal@nitj.ac.in
	Dr Harsh K Verma	Professor	PhD (Punjab Technical University)	vermah@nitj.ac.in
	Dr Renu Dhir	Professor	PhD (Punjabi University Patiala)	dhirr@nitj.ac.in
	Mr D K Gupta	Associate Professor	M.Tech (NIT JALANDHAR)	guptadk@nitj.ac.in
	Dr Geeta Sikka	Associate Professor (on lien)	PhD (NIT, Jalandhar)	sikkag@nitj.ac.in

	Dr Rajneesh Rani	Associate Professor & sHead	PhD (NIT Jalandhar)	ranir@nitj.ac.in
	Dr Amritpal Singh	Assistant Professor (Grade-I)	PhD (TIET, Patiala, Punjab)	apsingh@nitj.ac.in
	Dr Aruna Malik	Assistant Professor (Grade-I)	PhD (NIT Jalandhar)	malika@nitj.ac.in
	Dr K P Sharma	Assistant Professor (Grade-I)	PhD (NIT Hamirpur)	sharmakp@nitj.ac.in
	Dr Nagendra Pratap Singh	Assistant Professor (Grade-I)	PhD (IIT (BHU), Varanasi)	singhnp@nitj.ac.in
	Dr Samayveer Singh	Assistant Professor (Grade-I)	PhD (University of Delhi, New Delhi, India)	samays@nitj.ac.in
	Dr Urvashi	Assistant Professor (Grade-I)	PhD (NIT Jalandhar)	urvashi@nitj.ac.in
	Dr Avtar Singh	Assistant Professor (Grade –II)	PhD (NIT Hamirpur)	avtars@nitj.ac.in

	Dr Prashant Kumar	Assistant Professor (Grade –II)	PhD (NIT Hamirpur)	prashantk@nitj.ac.in
	Mr Rahul Aggarwal	Assistant Professor	B Tech (REC Jalandhar)	aggarwalr@nitj.ac.in
	Dr Banalaxmi Brahma	Assistant Professor (Grade-II)	PhD (Maulana Azad National Institute of Technology, Bhopal)	brahmab@nitj.ac.in
	Dr Jagdeep Kaur	Assistant Professor (Grade-II)	PhD (Gautam Buddha University, Greater Noida, Uttar Pradesh)	kaurj@nitj.ac.in
	Dr Kunwar Pal	Assistant Professor (Grade-I)	PhD (MNIT Jaipur)	kunwarp@nitj.ac.in
	Dr Lalatendu Behera	Assistant Professor (Grade-I)	PhD (IIT Guwahati)	beheral@nitj.ac.in
	Dr Shefali Arora Chouhan	Assistant Professor (Grade-II)	PhD (University of Delhi)	chouhansa@nitj.ac.in
	Dr Shveta Mahajan	Assistant Professor (Grade-II)	Direct-PhD Engg (Academy of Scientific and Innovative Research (AcSIR), CSIR- CSIO, Chandigarh)	mahajans@nitj.ac.in

	Dr Somesula Manoj Kumar	Assistant Professor (Grade-II)	PhD (NIT Warangal)	kumarsm@nitj.ac.in
	Dr Swarnima Singh Gautam	Assistant Professor (Grade-II)	PhD (IIIT Allahabad)	gautamss@nitj.ac.in

Academic Programme

Undergraduate Programme

- B Tech in Computer Science & Engineering (158)
- B Tech in Data Science & Engineering (40)

Postgraduate Programmes

- MTech in Computer Science & Engineering (60)
- MTech in Computer Science & Engineering (Information Security) (25)
- MTech in Data Science & Engineering (30)
- PhD Programmes in Computer Science & Engineering

Laboratory Facilities

- Computer Programming Laboratory
- RDBMS Laboratory
- Wireless and Optical Networks Laboratory
- Operating Systems Laboratory
- Information and Security Lab under ISEA by MCIT, New Delhi
- Project Laboratory
- Microprocessor Laboratory
- Research Laboratory

Department Achievements

- The faculty members of the department have collectively contributed over 3000 research papers to reputable journals since the department's inception.
- 27 Patents have been filed till now and out of them 7 patents have been granted and around 10 have been published.
- Total no of Citations more than 56311
- Total Faculty Strength is 24
- More than 95% total placements of students.
- Highest Package 62 LPA of this academic year.

Research and Development

The faculty members of the department are actively engaged in research in the areas of Optical Communication Systems, Optical Networks, Wireless Communication Systems, Wireless sensor networks, Wireless Adhoc Networks, Scientific Computing, Numerical Computing, Computer Networks, Information Security, Data Mining, Big data, Data Analytics, pattern Recognition, AI and Soft Computing, Operating Systems, Digital Image Processing, Document Image Analysis, Cloud Computing, Internet of Things (IoT), Parallel and Distributed Computing, Software Engineering, Applied Machine Learning, Distributed Systems, Software Engineering, Steganography, etc.

Sponsored Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (In Lac.)
1.	Dr Lalit K Awasthi, Dr Urvashi, Dr Geeta Sikka, and Dr Harsh K Verma	DST (DST/TDT/DDP-30/2021)	An intelligent network analyzer cum patcher for advanced security hardening of the security hardening of the organizational network	73 Lacs
2.	Dr Om Praksh Verma, Dr Rajneesh Rani, Dr Samayveer Singh, and Dr Vinit Jakhetiya	ISRO (S-TIC_AC-0141)	Single object tracking in a video image sequence using machine/deep learning techniques	18 Lacs
3.	Dr Harsh K Verma and Dr Renu Dhir	Meity (1(2)/2012-ISEA (Vol.II) dated 19 March 2014	Information security education and awareness-II, Department of Communication and Information Technology, New Delhi	36.06 Lacs
4.	Dr Geeta Sikka	TEQIP-II (NITJ/TEQIP-II)	Learn able Indoor Transportation Robot (LITR)	45 K
5.	Dr Geeta Sikka	TEQIP (NPIU 18th June 2019)	"Data Analytics & IoT framework for freeway to emergency services & traffic policing in smart cities"	11.61 Lacs
6.	Dr Geeta Sikka	Ministry of Human Resource Development New Delhi	Modernization of Microprocessor Laboratory	Rs. 10 lacs
7.	Dr Krishna Pal Sharma and Dr Nonita Sharma	TEQIP III ((Ref. NITJ/TEQIP-III/7719)	Water Pollution Control using Wireless Sensors Network	2 Lacs
8.	Dr Kuldeep Kumar, Dr Avtar Singh	TEQIP III (NITJ/TEQIP-III/7719)	Inferring High-level Code Similarities in Software Systems using String-Metric Based Hybrid Technique	3 Lacs
9.	Dr Lalit K Awasthi and Dr Samayveer Singh	TEQIP III (NITJ/TEQIP-III/8142)	An Energy Efficient Air Quality Monitoring System using Wireless Sensors Network	4 Lacs
10.	Prof Ajay K Sharma	Ministry of Human Resource Development New Delhi	Designing and Simulation of High Data Rate Optical Fiber Transmission Systems	Rs. 12 lacs
11.	Prof Ajay K Sharma	Ministry of Human Resource Development New Delhi	Studies on Dispersion and Fiber Nonlinearities for Optical Communication Systems and Networks	Rs. 6 lacs
12.	Prof Ajay K Sharma	Ministry of Human Resource Development New Delhi	Studies on broadband optical communication systems	Rs. 6 lacs
13.	Dr Kunwar Pal	SERB	A lightweight robust path-planning scheme for multi-UAVs Based on Gravitational Potential Field	Rs 21 lacs

Departmental Society

- **Professional Association of Computer Engineers**

Professional Association of Computer Engineers (PACE) is a student's association that conducts the technical as well as professional events. Events organized under this association helps to improve the technical, analytical and professional efficiency of our students. Student of PACE association organize on campus activities such as expert talks, programming contests and technical paper/poster presentation.

- **OpenGeest**

OpenGeest is a vibrant community of students from Computer Science and Information Technology, united by our passion for computer science. OpenGeest provides an inclusive environment where both seasoned programmers and beginners can learn, collaborate, and grow together. We believe in the power of hands-on coding experiences, and that's why we organize regular meetups, workshops, sessions, and coding challenges to engage students from all disciplines. Our society is dedicated to enhancing technical skills and keeping up with the latest advancements in the field. We conduct workshops on various programming languages, frameworks, and cutting-edge technologies. To provide valuable insights, we often invite expert members and guest speakers to share their knowledge. Whether you're interested in web development, mobile app development, data science, or artificial intelligence, OpenGeest covers a wide range of topics to cater to your diverse interests. At OpenGeest, we understand the significance of networking and career development. We organize networking events, alumni interactions, and industry visits, creating opportunities for our members to connect with professionals and explore potential career paths. We offer assistance with resume building, technical interview preparation, and staying updated with industry trends and job opportunities. Whether you're seeking a job or planning for higher studies, OpenGeest is here to support you every step of the way in the IT sector. We believe that practical experience and effective teamwork are crucial for personal growth. By working together on real-world projects, our members gain practical skills and develop a strong portfolio. Moreover, we actively promote open-source contributions, emphasizing the importance of giving back to the community and contributing to the growth of open-source technologies. OpenGeest also recognizes the value of connecting students with industry professionals. We regularly invite experienced programmers, software engineers, and students pursuing masters to share their experiences through guest lectures and interactive sessions. These interactions provide invaluable insights into industry demands, emerging trends, and potential career paths, empowering our members to make informed decisions about their future. OpenGeest has emerged as a dynamic platform that nurtures talent, fosters innovation, and prepares students for the rapidly evolving field of technology. Through our wide range of activities, including workshops, coding competitions, and collaborative projects, we equip our students with the skills, knowledge, and network necessary to excel in the world of computer science. By creating an environment of shared learning and creativity, OpenGeest is instrumental in shaping the future technologists and innovators of NIT Jalandhar.6

Achievement of Students

- More than 80% of the students have bagged placements with lucrative job offers. Shruti Gupta achieved the highest job placement for the batch 2020-24, securing a compensation package of 62 LPA at Google.
- Yogin Pahuja of batch 2020-24 is got selected for PayPal University Team and secure 34.4 LPA.
- Saarthak Markandey of batch 2020-24 has got placements at rapidfort with 30 LPA.
- Amanpreet Kaur and Amit Pandey of batch 2019-23 have selected in Microsoft as software engineer developer and got 52.11 LPA package.
- Manav Dhiman, Pratham Bansal and Vipul Chawla of batch 2019-23 got 46 LPA at Amazon.
- Anmol Virdi got offers from Rapidfort Inc (USA), Oracle, with 33 LPA.
- Sarkar Saima Islam of batch 2021-25 was a finalist of the National level championship, Nutrileaders Hunt (aired in National TV channel) and selected to make a short film by the Bangladesh Government in the program held at Bangabandhu International Conference Center, Begum Rokeya Avenue, Dhaka 1207, Bangladesh.
- Harmandeep Singh of batch 2020-24 secured 2nd position in 6 side football tournaments organized at NIT Jalandhar futsal ground on 4/26/2023.
- Himanshu Bedi 2020-24 - Won 1st prize in quiz held by Quest club. It was a quiz based on movies, history, science, business etc organized by NIT Jalandhar held on 3/25/2023.
- Vandana Sah of batch 2022-26 participated in the Inter NIT Women Cricket Tournament organised by NIT Rourkela and secured the 1st Runner-Up position. The total number of participants is 50.
- Nikita of batch 2022-26 participated in Ranbhomi invitational basketball tournament held at National Institute of Technology Kurukshetra on 4-08-2023. Total 8 teams were participating and Nikita got the bronze medal in the event.
- Naseem Akhtar of batch 2022-26 participated in Inter NIT women's Athletics and Cricket tournaments. She participated in 100 m, 200 m, 4x100m relay, and Long Jump, securing second position in all events. She also participated in a 400m event and secured third position.
- Vansh Uppal of batch 2022-26 participated in Inter year Cricket organised at NIT Jalandhar – He won gold medal at Inter year Cricket tournament.
- Bhavya Sharma of batch 2021-25 secures Best Intern as Data Analyst at NoQs, interned as AI and Python developer at Codeclause, Got ticket to attend Perspektywy Women in Tech Summit, and selected in cohort 2.0.

9.7 Electrical Engineering

Departmental Website Link : [Electrical Engineering \(nitj.ac.in\)](http://Electrical%20Engineering%20(nitj.ac.in))

Faculty

Name	Designation	Qualification	Email
	Dr Sharvan Kumar Pahuja (HOD)	Professor PhD (IIT Delhi)	pahujas@nitj.ac.in
	Dr Harimurugan D	Assistant Professor Grade-I PhD (NIT Karnataka)	harimurugan@nitj.ac.in
	Dr Kailash Chand Sharma	Assistant Professor Grade-I PhD (MNIT Jaipur)	sharmakc@nitj.ac.in
	Dr Mahesh Kumar	Assistant Professor Grade-I PhD (IIT Kanpur)	kumarmahesh@nitj.ac.in
	Dr Madan Kumar Das	Assistant Professor Grade-II PhD (IIT Delhi)	dasmk@nitj.ac.in
	Dr Pothuraju Ramakrishna	Assistant Professor Grade-II PhD (NIT Andhra Pradesh)	ramakrishnap@nitj.ac.in
	Dr Arun Rathore	Assistant Professor Grade-II PhD (NIT Bhopal)	rathorea@nitj.ac.in
	Dr Sounak Nandi	Assistant Professor Grade-II PhD (IISc, Bangalore)	nandis@nitj.ac.in

Academic Programme

- **Undergraduate Programme**

B.Tech in Electrical Engineering

- **Postgraduate Programmes**

M.Tech in Electric Vehicle Design.

PhD Programmes in Electrical Engineering

Laboratory Facilities

- Electrical Machines-II Laboratory
- Power System Laboratory
- Simulation Laboratory
- Electric Drives laboratory

Research and Development

The faculty members of the department are actively engaged in research in the areas of Power Electronics and Drives, Renewable Energy Systems, Smart Grid, DC-DC Converters, High Voltage Engineering, Battery Management System, etc.

Consultancy Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (In Lac)
1.	Prof Dilbag Singh, Dr K.C. Sharma, Dr Dinesh Shukla and Dr Raman Bedi.	CPWD	2021-Till date	INR 15.73 lakhs
2.	Dr Harimurugan, Dr T. Srinivas, Dr Senthil and Dr Agnihotri	Crystal Homes Project	October 2023	Rs. 6,44,280
3.	Dr Harimurugan, Dr T. Srinivas and Dr Senthil	DV Enchante	July 2023	Rs. 4,30,700

Departmental Society

- **Brief about society.**

Society of Electrical Engineers and Developers (SEED) is a professional society that brings together individuals working in the field of electrical engineering. The society typically promotes the exchange of technical and scientific knowledge, and provides opportunities for professional development and networking. We aim to impact the industry, and provide support to our members through resources such as technical publications, conferences, and educational workshops. Our focus is to promote the advancement of knowledge in the field, providing professional development opportunities for members, and fostering a sense of community among professionals in the industry.

Achievement of Students

1. STUDENT PLACEMENT (BATCH- 2019-23)

Number of Students Job Offers - 54

Number of Students Placed - 47

2. GATE-2024 Rank Final Year

Name	Marks (out of 100)	Gate score	AIR
DIKSHANT JINDAL	60	801	92
NIKHIL JOSHI	36.67	508	1970
HARSH THAKUR	26.33	358	7284
ARYAN	26.6	363	7003
GURLAL SINGH	30.67	415	4459
VINAY	28	420	6500
KARAN VARSHNEY	36	480	2300

Third Year

Name	Marks (Out of 100)	Gate score	AIR
UDAYPARTAP SINGH	32	433	3826
VISHAL KUMAR	25.33	345	8210
ARYAN VERMA	23.67	323	10050
YASH DEV BARMAN	21.67	297	12834
ROSEMIN TONGARIA	20	275	15845
YASHWANT SINGH MEENA	17.33	240	21862

9.8 Electronics and Communication Engineering

Departmental Website Link: <https://departments.nitj.ac.in/dept/ece/Home>

Faculty

Name	Designation	Qualification	Email
 Dr Binod Kumar Kanaujia	Director	PhD (IIT BHU)	bkanaujia@nitj.ac.in
 Dr Arun K Khosla	Professor	PhD (Guru Gobind Singh Indraprastha University Delhi)	khoslaak@nitj.ac.in
 Dr B S Saini	Professor	PhD (NIT Jalandhar)	sainibs@nitj.ac.in

	Dr Mamta Khosla	Professor	PhD (NIT Jalandhar)	khoslam@nitj.ac.in
	Dr Ramesh K Sunkaria	Associate Professor & Head	PhD (IIT Roorkee)	sunkariark@nitj.ac.in
	Dr Indu Saini	Associate Professor	PhD (NIT Jalandhar)	sainii@nitj.ac.in
	Dr Ashish Raman	Associate Professor	PhD (NIT Jalandhar)	ramana@nitj.ac.in
	Dr Neetu Sood	Associate Professor	PhD (NIT Jalandhar)	soodn@nitj.ac.in
	Dr Deepti Kakkar	Associate Professor	PhD (NIT Jalandhar)	kakkard@nitj.ac.in
	Dr Balwinder Raj	Associate Professor	PhD (IIT Roorkee)	rajb@nitj.ac.in
	Dr Asutosh Kar	Associate Professor	Marie-Curie Post Doc. PhD (BIT Mesra)	kara@nitj.ac.in
	Dr Nitesh Kashyap	Assistant Professor (Grade-I)	PhD (PDPMIITDM JABALPUR)	kashyapn@nitj.ac.in

	Dr Sateesh Kumar Awasthi	Assistant Professor (Grade-I)	PhD (IIT Kanpur)	awasthisk@nitj.ac.in
	Dr Sukwinder Singh	Assistant Professor (Grade-I)	PhD (IIT Roorkee)	sukwinders@nitj.ac.in
	Dr Pawan Kumar Verma	Assistant Professor (Grade-I)	PhD (MNNIT Allahabad)	vermapk@nitj.ac.in
	Dr Tarun Chaudhary	Assistant Professor (Grade-I)	PhD (NIT Hamirpur)	chaudharyt@nitj.ac.in
	Dr Manjeet Singh	Assistant Professor (Grade-I)	PhD (NIT Hamirpur)	singhm@nitj.ac.in
	Dr Aijaz Mehdi Zaidi	Assistant Professor (Grade-II)	PhD (Jamia Millia Islamia, Delhi)	zaidiam@nitj.ac.in
	Dr Bodile Roshan Mukindrao	Assistant Professor (Grade-II)	PhD (NIT Warangal)	mukindraobr@nitj.ac.in
	Dr Rohit Singh	Assistant Professor (Grade-II)	PhD (IIT Ropar)	rohits@nitj.ac.in
	Dr Kundan Kumar	Assistant Professor (Grade-II)	PhD (IIT-ISM Dhanbad)	kumarkundan@nitj.ac.in

Academic Programme

- **Undergraduate Programme**

B Tech in Electronics and Communication Engineering
B Tech in Electronics and VLSI Engineering

- **Postgraduate Programmes**

MTech in VLSI (Design)
MTech in Signal Processing and Machine Learning
PhD in Electronics and Communication Engineering

Laboratory Facilities

- **Research Laboratory**

Medical Imaging and CMPS Research Lab
Nanoelectronics Research Lab

- **Departmental Labs**

Basic Electronics Lab
Biomedical Signal Processing & Telemedicine Lab
Communication System Lab.
DSP & Embedded System Lab
Digital Electronics Lab
Emerging Technology Lab
Microwave Lab
VLSI Lab

Research and Development

The faculty members of the department are actively engaged in research and development in the areas of Electronics and Communication Engineering, Biomedical Signal Processing, VLSI, Antennas Design, RF and Microwave Engineering, Nanoelectronics, Communication, 5G/6G and IoTs and Sensors. The Department has advanced Biomedical Signal Processing and Telemedicine Laboratory, VLSI Design Laboratory, Nanoelectronics Research Lab and Communication System Laboratory with sophisticated research equipment. The department has an advanced VLSI lab sponsored by Ministry of Communication and IT under SMDP-II project. In the VLSI lab Cadence, mentor graphic, Synopsys, Magma, Coware and Xilinx softwares are available for project/research work. The Department having various running project with the worth of more than 10 Crores

Sponsored Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (In Lac.)
1.	Dr Arun K Khosla, Dr Mamta Khosla and Dr Balwinder Raj	Department of Science and Technology	DST-FIST & 2013-2018	155
2.	Dr Arun K Khosla	Department of Science and Technology	Technology Business Incubator	284
3.	Dr Arun K Khosla	ISRO	Strengthening Ridge to Valley based NRM planning under Mission Water Conservation using Geospatially enabled Serious Gaming (2020-22)	4.5
4.	Dr Arun K Khosla	Higher Education Funding Agency (HEFA) under their CSR Initiative	Development and Evaluation of Virtual Reality Interventions for Improving Cognitive and Vocational Skills in	10

			individuals with autism spectrum disorder	
5.	Dr Arun K Khosla	ISRO	ISRO Space Technology Incubation Centre (2019-24)	200
6.	Dr Mamta Khosla Dr Ashish Raman	MeitY	SMDP C2SD	166
7.	Dr Ashish Raman	DST-FIST	FIST- Characterisation of Semiconductor Devices	165
8.	Dr Ashish Raman	ISRO	FPGA based High Speed CCSDS Processor for Baseband Receiver (2020-22)	15.90
9.	Dr Ashish Raman	SERB, DST, New Delhi.	Modeling and analysis of quantum Effect for Sub- 10 node Nanowire based devices	
10.	Dr Ashish Raman	Ministry of Electronics and IT (MeitY)	Visvesvaraya PhD fellowship for Electronics and IT Phase –II (2022-27)	130
11.	Dr Ashish Raman	MeitY	inup-i2i as Collaborative partner of IIT Delhi(2023-nan)	
12.	Dr Ashish Raman	MeitY	Design and development of System on Chip based next generation IoT System for Industry 4.0 with Functional Safety and Security Features (2023-28)	96
13.	Dr Ashish Raman	MeitY	Visvesvaraya PhD fellowship for Electronics and IT Phase -II, Round II (2023-28)	181
14.	Dr Asutosh Kar	DST India-Serbia Bilateral (International Divison, DST)	Adaptive methods for channel and RF front-end equalisation in NOMA systems (2023-26)	15
15.	Dr Asutosh Kar	Titan R&D and IIT Madras Pravartak Tech.	Defect identification in watches without opening the back cover using acoustic and vibration methods (2022-23)	14
16.	Dr Asutosh Kar	DST India-Korea Bilateral (DST International Division)	Design and development of Ultra-Low Power CMOS IC for wireless neural monitoring system (2021-24)	42.75
17.	Dr Balwinder Raj	AICTE, New Delhi	Memristive Non-volatile SRAM Cell Design for AI Applications (2022-25)	11.50
18.	Dr Balwinder Raj	SERB-TARE	Design of FinFET architectures for analog/RF and biomedical applications (2023-26)	18
19.	Dr Deepti Kakkar, Dr Ashish Raman, Dr Mamta Khosla	ISRO	FPGA based High Speed CCSDS Processor for Baseband Receiver	15.9
20.	Dr Ramesh K Sunkaria	DST SERB	Design and Development of Robust Entropy based Technique for Computer aided Heart Health Diagnosis	40.44
21.	Dr Sukwinder Singh, Dr Nitesh Kashyap, Dr Balwinder Raj	ISRO	Design & Development of RF and Microwave Components	14.5
22.	Dr Nitesh Kashyap	ISRO	Modelling and Simulation of Antenna Control Servo System	7.5

23.	Dr Sateesh Kumar Awasthi, Dr Pawan Kumar Verma	ISRO	NavIC Based Asset Tracking System	21
24.	Dr Pawan Kumar Verma	King Khalid University, Kingdom of Saudi Arabia	MANAGEMENT OF COMPLEX ATMOSPHERIC CONSTITUENTS AND INTERFERENCE PROBLEM IN 5G NETWORKS	30
25.	Dr Sateesh Kumar Awasthi	ISRO	Design and development of D-sub miniature space grade connectors for space applications	24
26.			Design and Development of RF and Microwave Components	

Departmental Society

- Brief about society: Various Society are running for the Technical Skill development of Electronics and Communication Engineering

Achievement of Students

Our students are placed in Google, Microsoft and Amazon with package of 53 Lacs.

9.9 Humanities and Management

Departmental Website Link: <https://departments.nitj.ac.in/dept/hm/home>

Faculty

Name	Designation	Qualification	Email
 Dr S S Bedi	Professor	PhD (Guru Jambheshwar University of Science and Technology, Hisar)	bediss@nitj.ac.in
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 Dr Aditya Prakash	Associate Professor & Head	PhD (JNU, New Delhi)	prakasha@nitj.ac.in
 Dr Jagwinder Singh	Associate Professor	PhD (Panjab University, Chandigarh)	singhj@nitj.ac.in

	Dr Gaurav Kumar	Assistant Professor (Grade-I)	PhD (IIT Kharagpur)	kumarg@nitj.ac.in
	Dr Gyan Prakash	Assistant Professor (Grade-I)	PhD (IIT Dhanbad)	prakashg@nitj.ac.in
	Dr Shyamkiran Kaur	Assistant Professor (Grade-I)	PhD (Central University of Punjab)	kaursk@nitj.ac.in
	Dr Radhakrishna G S	Assistant Professor (Grade-II)	PhD (NIT Trichy)	gsradhakrishna@nitj.ac.in

Academic Programme

- **Postgraduate Programmes**

MBA in Finance, Marketing & HR

- **Doctoral Programme**

PhD in Management and Humanities

Laboratory Facilities

- Language Lab
- Computational and Data Analytics Lab

Research and Development

The faculty members of the department are actively engaged in research in the areas of English Language and Literature, Gender Studies, Cultural Studies, Feminism, Transgender, Queer, Men Studies, Diaspora, Postcolonial Theory and Comparative Literature, Media Studies, ELT, Professional Communication, Linguistics. etc.

In addition, the faculty members of the department are engaged in research in the areas of General Management, Financial Management, Human Resource Management, Marketing Management and Entrepreneurship Development and Management. Green Marketing, sustainable purchase behavior, Brand Management, Services Marketing, Rural Marketing and Retail Marketing. ESG and performance measurement, Behavioral Finance, Sustainable Finance/Climate/Green Finance and Accounting, Climate Finance, Financial Economics, Stock Markets, Financial Analytics, Intersection of Economics, trade, and/or finance, Fintech, Corporate Governance, Financial Distress Prediction, Bankruptcy Prediction, Crowd funding, Corporate finance and emerging finance areas.

Sponsored Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (In Lac.)
1.	Dr Radhakrishna G S & Dr Sonia Chawla	ICSSR	Impact Assessment of Sukanya Samridhi Yojana as a Tool for Financial Inclusion for Women: An Investigation across different regions of India	12

Departmental Society

(1) Managerial Society

We at Managerial Society, National Institute of Technology, Jalandhar, are on a mission towards building an enterprising India. We have six Committees in Managerial Society that includes, industry interaction cell, Alumni Engagement Committee, marketing & public relations, Sponsorship Committee, Finance committee and sports & cultural committee. Managerial Society's major focus is networking, mentorship, resources and events, we believe that entrepreneurship is the key to India's development. To fulfill this vision, we have conceptualized & successfully implemented various initiatives to help students, young entrepreneurs & professionals in their journey. National level competitions such as Ad mad show, Leadership and mentoring and Be Inquisitive, Businessniti 2.0, Knockout Vivad national level virtual debate contest, Workshop on CV, hacks and linkedin building, interactive sessions with industry experts are some of the initiatives taken by the society.

(2) Zeal Society

Zeal Society is a thriving community dedicated to nurturing your speaking skills, interpersonal relationships, event management abilities, confidence, and leadership qualities. At Zeal, we follow the motto "grow together, educate together" and strive to create an environment that promotes personal and professional growth. To ensure that these skills are fostered in students, we organize several workshops, events, and meetups throughout the year.

Achievement of Students

• Top Placements



Eshita Roy
Hike Education
8.04 LPA



Tanvi Verma
Crescendo Global
Leadership Hiring India
Pvt. Ltd.
7.6 LPA



Pahul Preet Kaur
Crescendo Global
Leadership Hiring India
Pvt. Ltd.
7.6 LPA



Rajveer Kaur
Zomato
6.9 LPA

9.10 Industrial and Production Engineering

Departmental Website Link: [Industrial and Production Engineering \(nitj.ac.in\)](http://nitj.ac.in)

Faculty

Name	Designation	Qualification	Email	
	Dr Rajeev Kumar Garg	Professor (HAG)	PhD (TIET, Patiala)	gargrk@nitj.ac.in
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	Dr Vishal Sharma	Professor (On lien)	PhD (Kurukshetra University)	sharmavs@nitj.ac.in
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	Dr Shailendra Singh Bhadauria	Associate Professor	PhD (NIT Bhopal)	bhadauriass@nitj.ac.in
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	Dr Narendra Kumar	Assistant Professor (Grade-I)	PhD (Indian Institute of Information Technology, Design and Manufacturing Jabalpur)	kumarn@nitj.ac.in
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	Dr Gurraj Singh	Assistant Professor (Grade-II)	PhD (NIT Jalandhar)	singhg@nitj.ac.in
	Dr Bikash Kumar	Assistant Professor (Grade-II)	PhD (IIT Guwhati)	kumarb@nitj.ac.in

Academic Programme

- **Undergraduate Programme**

B Tech in Industrial and Production Engineering

- **Postgraduate Programmes**

MTech in Industrial Engineering and Data Analytics

PhD Programmes in Industrial and Production Engineering

Laboratory Facilities

- Automation & IoT Laboratory
- Work Study & Ergonomics Laboratory
- Computational Lab-I
- Computational Lab-II
- Materials and Metrology Lab
- Research Lab
- Modern Tool Room

Research and Development

The faculty members of the department are actively engaged in research in the areas of Operations and Supply Chain Management, Ergonomics & Human Factors Engineering, Occupational Health and Safety, Non-Conventional, Energy (Solar) And Sustainability, Additive Manufacturing. Super hydrophobic Surfaces, Thermal Spray Coatings, Surface Coating, Tribiology Optimization of Manufacturing Systems, Operations And Industrial Management, Sustainable Manufacturing, Machining, Optimizing Techniques, Agriculture Machining, Life Cycle Assessment, Performance Optimization Of Manufacturing Systems (CMS, FMS, RMS), Internet Of Things (IoT), Numerical and Experimental Investigation of Additively Manufactured Super alloys, Modeling of Manufacturing Processes, Data Analytics, Industry 4.0, Advanced Manufacturing, Magnetic abrasive finishing, Advanced manufacturing processes, Mechanical behavior of materials, Welding Engineering, Nano-finishing, Additive Manufacturing, Bio Material, Reliability and Maintenance Engineering, Solid Mechanics, Experimental & analytical fracture mechanics, fatigue crack growth etc.

Sponsored Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (In Lac.)
1.	Dr Narendra Kumar	SERB, India	"Development of Automated Deposition Head for 3D Printing of Continuous Fibre Reinforced High-Performance Polymer Composites", Duration 3 Years	54.12
2.	Dr Narendra Kumar	ISRO	"Development of UV assisted 3D printing system for PCB manufacturing", Duration 2 Years	18.85
3.	Dr Aviral Misra & Dr Vishal Sharma	SERB, India	"Development and analysis of magnetically-assisted variable flow abrasive-based finishing", Duration 3 Years	35.82
4.	Dr Bikash Kumar	Seed Grant, NITJ	"Transformation in thermo-micro structural mechanical behavior using scan strategies in additively manufactured Nickel based super alloys", Duration 2 Years	5.00

Consultancy Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (In Rs)
1.	Dr L P Singh, Prof Arvind Bhardwaj	ARK International Jalandhar City	Consultancy for Noise Level Reduction for ARK International Jalandhar City	Rs. 70,800
2.	Dr L P Singh and Prof Arvind Bhardwaj	M/s. Rachit Textile Industry, Amritsar , Jalandhar	Noise level assessment	Rs. 1,00,500
3.	Dr L P Singh & Dr Kapil Kumar	Gowardhan Dass PA Jalandhar	Skill Mapping	Rs 2,36,000
4.	Prof R K Garg	M/s. Mittal Industries Hoshiarpur	Verification of Product Manufactured	Rs. 11,800

Departmental Society

- **Brief about society.**

TIES (The Institution of Engineers, Students Chapter) and SAE (Society of Automotive Engineers) are prominent societies within our department, playing vital roles in fostering academic and professional development among students. TIES provides a platform for engineering enthusiasts to engage in various technical activities, including workshops, seminars, and competitions. It serves as a conduit for students to interact with industry professionals, enabling them to gain insights into real-world engineering practices and challenges. TIES also organize industrial visits and guest lectures, enriching the academic experience by bridging the gap between theory and practical applications. Both TIES and SAE play pivotal roles in complementing the academic curriculum by providing opportunities for students to apply theoretical knowledge in practical settings, fostering leadership skills, and nurturing a spirit of innovation and teamwork. These societies contribute significantly to the holistic development of students, preparing them for successful careers in engineering and related fields.

Achievement of Students

- Ms. Amanpreet Kaur (20111004), B.Tech (2020 batch) student of the department has been selected to complete her (8th Semester) at IIT Delhi under advance PhD Programme in the department of Applied Mechanics in accordance with the Memorandum of Understanding (MoU) signed between NIT Jalandhar and IIT Delhi.

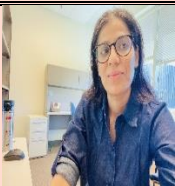
9.11 Instrumental and Control Engineering

Departmental Website Link: <https://departments.nitj.ac.in/dept/ice/Home>

FACULTY

Name	Designation	Qualification	Email-id
 Dr A K Jain	Professor	PhD (NIT Jalandhar)	jainak@nitj.ac.in
 Dr Dilbag Singh	Professor	PhD (IIT Roorkee)	singhd@nitj.ac.in

	Dr Sharvan Kumar Pahuja	Professor	PhD (IIT Delhi)	pahuja@nitj.ac.in
	Dr Kuldeep Singh Nagla	Professor	PhD (NIT Jalandhar)	naglaks@nitj.ac.in
	Er Narinder Singh Bhangal	Associate Professor & Head	M.Tech (PAU, Ludhiana)	singhn@nitj.ac.in
	Dr Roop Pahuja	Associate Professor	PhD (NIT Jalandhar)	pahujar@nitj.ac.in
	Dr Sheela Tiwari	Associate Professor	PhD (NIT Jalandhar)	tiwaris@nitj.ac.in
	Dr Rajesh Singla	Associate Professor	PhD (NIT Jalandhar)	singlar@nitj.ac.in
	Dr Om Prakash Verma	Assistant Professor	PhD (IIT Roorkee)	vermaop@nitj.ac.in
	Dr Karan Veer	Assistant Professor	PhD (TIET Patiala)	veerk@nitj.ac.in
	Dr Afzal Sikander	Assistant Professor	PhD (IIT Roorkee)	afzals@nitj.ac.in

	Dr Anil Kumar Yadav	Assistant Professor	PhD (Delhi University, Delhi)	yadavak@nitj.ac.in
	Dr Richa Sharma	Assistant Professor	PhD (University of Delhi, Delhi, India)	richas@nitj.ac.in
	Dr Amit Kumar Singh	Assistant Professor	PhD (IIT Roorkee)	singhak@nitj.ac.in
	Dr Ravi Verma	Assistant Professor	PhD (IISc, Bangalore)	vermaravi@nitj.ac.in
	Dr Karan Jain	Assistant Professor	PhD (TIET Patiala)	jaink@nitj.ac.in
	Dr Deblina Biswas	Assistant Professor	PhD (IIT Indore)	biswasd@nitj.ac.in
	Dr Mahendra Kumar	Assistant Professor	PhD (IIT Roorkee)	mahendrak@nitj.ac.in

Academic Programmes:

- **Undergraduate Programme**

B. Tech in Instrumentation and Control Engineering

- **Postgraduate Programmes**

M.Tech (Full Time) in Control and Instrumentation Engineering

M.Tech (Part-Time) in Control and Instrumentation Engineering

- **Doctoral Programmes**

PhD (Full Time and Part Time)

Laboratory Facilities

- Analytical Instrumentation Laboratory
- Biomedical Instrumentation Laboratory
- Computing Laboratory
- Control Engineering Laboratory
- Electrical Machines Laboratory
- Fabrication Unit and Transducers Laboratory
- Human Machine Interface Laboratory
- Measurement and Circuit Laboratory
- Microprocessor-based Instrumentation Laboratory
- Process Control Instrumentation Laboratory
- Robotics Laboratory
- Signal Processing Laboratory
- Virtual Instrumentation Laboratory
- Wireless Networks Laboratory

Research and Development

The faculty members of the department are actively engaged in research in the areas of biomedical instrumentation and signal processing, medical imaging, virtual instrumentation, power system operation and control, artificial intelligence and its applications, human-machine interface, robotics, renewable energy, control system, applied soft computing and optimization techniques, process control and optimization, low-temperature instrumentation, sliding mode control, robust control, resilient control, cyber-physical systems, measurement and instrumentation for space applications, bio-photonics, laser-based instrumentation, photoacoustic sensing technology, electric vehicles, WSN/BAN/VANET/IoT, smart sensors, computer vision, smart healthcare, model-order reduction, microgrids, etc.

Sponsored Projects

(Ongoing projects)

S. No.	Name of the Investigator	Project No.	Funding Agency	Title of the project and duration	Amount sanctioned (INR)
1	Dr Rajesh Singla	BNB/NIT/1	BNB Medicare India Pvt. Ltd.	Development of Brain Controlled smart wheelchair system 01 year	215000
2	Dr O P Verma	Research/Sponsor/ADHAAR_2021	JCBRO	Design and Development of ADHAAR	308000
3	Dr O P Verma	STEM-IP/2021/0001	STEMRS	Investigation of Computational Intelligence Capabilities for Digital Signal Protection	303000
4	Dr Ravi Verma	SRG/2021/000726	DST SERB SRG	Development and Performance evaluation of cryocooler based cryosorption pump	2997520

Departmental Society

- **SPICE SOCIETY**

SPICE, or the Society for Progression of Instrumentation and Control Engineering, was founded within the Department of Instrumentation and Control Engineering (ICE) at DrB. R. Ambedkar National Institute of Technology, Jalandhar, on December 1, 1994. This society is dedicated to enhancing the experience and opportunities for students studying Instrumentation and Control Engineering. It has consistently organized a variety of events, including expert lectures from industry professionals, robotics workshops, career guidance sessions, and industrial tours. For further information, please visit: [spice-nitj.web .app](http://spice-nitj.web.app).

Achievement of Students

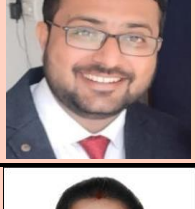
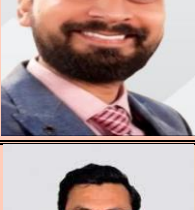
- Ten students from ICE have secured placements at BPCL.
- Four students from ICE placed at Johnson Control India.
- A final year BTech student in ICE initiated the startup "Gaming Truck Wala."
- One of the ICE students developed an IoT monitoring device for IV drip, winning the first prize at the Health Hackathon conducted at NIT Jalandhar.
- A master student in ICE received the IEEE STPEC 2023 Student Travel Award.
- A student of ICE achieved fourth place in the "Hack Fusion 2024" hackathon organized by NIT Jamshedpur.
- A student of ICE attained the second position in the National Level Debate Competition held at PCTE Ludhiana in February 2024, alongside three teammates, winning a cash prize of 25,000 rupees.
- A student of ICE secured AIR-787 in GATE (IN).
- A student of ICE co-authored a paper presented at the International Astronautical Congress 2023 in Baku, Azerbaijan.
- A student was selected as a mentee for the Space4Women 2023 Program, an initiative by the United Nations Office for Outer Space Affairs.
- One ICE student earned the second position in Cryptic Hunt at Prometeo'24 organized by IIT Jodhpur.
- A student from ICE was selected for the Cluster finals of the TATA Crucible Campus Quiz 2023.
- Five students of ICE advanced to the National level finals of SIH.
- A student of ICE secured an internship at NVIDIA in the ASIC design role.
- A student secured AIR 535 in GATE 2023 during the third year.
- A student won the third position in Hackmol as part of the fresher track

9.12 Mathematics and Computing

Departmental Website Link: <https://departments.nitj.ac.in/dept/ma/Home>

Faculty

Name	Designation	Qualification	Email
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 Dr Geeta Partap	Associate Professor	PhD (KUK, Kurukshetra)	pratapg@nitj.ac.in
 Dr R. R. Sinha	Associate Professor	PhD (BHU, Varanasi)	sinharr@nitj.ac.in

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	Dr R Sivaraj	Associate Professor	Post Doc (UAEU, AlAin) PhD (VIT Vellore)	sivarajr@nitj.ac.in
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	Dr Deepika Rani	Assistant Professor (Grade-I)	PhD (IIT Roorkee)	ranid@nitj.ac.in
	Dr M. Zafar	Assistant Professor (Grade-I)	PhD (IIT Bombay)	zafarm@nitj.ac.in
	Dr Sukhjit Singh	Assistant Professor (Grade-I)	PhD (IIT Kharagpur)	kundalss@nitj.ac.in
	Dr Neha Yadav	Assistant Professor (Grade-I)	Postdoc (Korea University, S. Korea) PhD (MNNIT Allahabad)	
	Dr Ravinder Kumar	Assistant Professor (Grade-I)	PhD (HPU)	thakurk@nitj.ac.in
	Dr Saurabh Kumar Katiyar	Assistant Professor (Grade-II)	PhD (IIT Madras)	katiyarsk@nitj.ac.in

Academic Programme

- **Undergraduate Programme**

B Tech in Mathematics & Computing

- **Postgraduate Programmes**

MTech in Mathematics & Computing

PhD Programmes in Mathematics & Computing

Laboratory Facilities

- Computing Laboratory for M Sc/PhD programme
- R & D Lab

Research and Development

The faculty of the department is interested in the following research areas: Commutative Algebra, Wavelet & Finite Element Methods for Partial Differential & Integral Equations, Numerical analysis and Computer Programming, Linear Algebra, Operator Theory, Matrix Analysis, Statistics, Applied mathematics (Mechanics of Solids), Micro polar Elasticity, Fluid Dynamics, Multi-objective Optimization, Fuzzy optimization, Swarm Intelligence, Evolutionary Computation, Fixed Point Theory and Its applications, Fractal Geometry, Fractal Functions and Artificial neural networks for solving partial differential equations. Dr Jaspal Singh Aujla has been selected as Senior Associate for a period of six years (2011-2016) at Abdul Kalam International Centre for Theoretical Physics, Trieste, Italy

Sponsored Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (In Lac.)
1.	Dr Ravinder Kumar	SERB-DST	Study of Some Inequalities for Means, Moments and Variance with Applications	20.45
2.	Dr M Zafar	NBHM (DAE)	Existence of global classical solution to the interaction of bi-symmetric four planar rarefaction waves (three years)	17.5
3.	Dr Sukhjot Singh	SERB-DST	Study of Higher Order Iterative Methods for Solving Nonlinear Equations	19.10
4.	Dr Neha Yadav	SERB-DST	Development of Ensemble algorithms based on non-Gaussian models and deep learning neural networks for time series forecasting	6.6
5.	Dr Anupam Yadav	SERB-DST	Development of Projection Algorithm for Solving Convex Feasibility Problems arise in Quantum Computation	6.6
6.	Dr Ravinder Singh	NBHM (DAE)	A Study of QQR-Property and Extensions of Commutative Rings with Totally Ordered Set of Intermediate Rings.	2.37

Departmental Society

- **gaNIT Club**

gaNIT Club serves as a hub for students passionate about exploring the beauty and applications of mathematics. With a diverse range of activities, workshops, competitions, and seminars, our club provides an engaging platform for students to deepen their understanding of mathematical concepts, foster collaboration, and nurture problem-solving skills. At the gaNIT Club, we believe in fostering a culture of curiosity and intellectual growth. Whether you're an aspiring mathematician, an enthusiast exploring the wonders of numbers, or someone simply intrigued by the elegance of mathematical theories, there's a place for you here. Our club welcomes students from all disciplines and backgrounds, encouraging interdisciplinary learning and the exchange of ideas. Beyond academic pursuits, the gaNIT Club also hosts fun and engaging events such as math quizzes, puzzle-solving competitions, mathematical modeling challenges, and guest lectures by esteemed mathematicians and researchers. These events not only add a touch of excitement to our academic journey but also help in developing critical thinking and analytical skills.

9.13 Physics

Departmental Website Link: [Physics \(nitj.ac.in\)](http://Physics(nitj.ac.in))

The Department of Physics is “Fund for Improvement of S&T Infrastructure (FIST)” sponsored department by Department of Science and Technology, Govt. of India.

Faculty and Staff

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	Dr Arvind Kumar	Associate Professor	PhD. (IIT Delhi)	kumara@nitj.ac.in

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	Dr Vinod Ashokan	Assistant Professor	PhD. (IIT Roorkee)	ashokanv@nitj.ac.in
	Dr Shishram Rebari	Assistant Professor	PhD. (IISER Mohali)	rebaris@nitj.ac.in

ACADEMIC PROGRAMMES

- B. Tech.

Postgraduate Programmes

- M. Sc. Physics
- M. Tech. (Full Time) in Nuclear Science and Engineering
- M. Tech. (Part Time) in Material Science and Engineering
- Full and part Time PhD Programme in various disciplines of Physics viz. Laser Plasma Interaction, Electromagnetic Field Theory, Nuclear Physics, Radiation Physics, Particle Physics, Liquid Crystal, Experimental Condensed Matter Physics

List of Laboratories

Under Graduate Laboratories

- B.Tech. Physics Laboratory
- Material Science & Engineering Laboratory
- B.Sc. (Physics) Laboratory

Post Graduate Laboratories

- Electronics Laboratory
- Computer Laboratory
- Solid State Physics Laboratory
- Nuclear Physics Laboratory
- Plasma Physics Laboratory
- Spectroscopy Laboratory

Research Laboratories

- Computational Plasma Research Laboratory
- Radiation Monitoring and Assessment Laboratory
- Liquid Crystal Laboratory
- High Energy Physics Computational Laboratory

- Thin Film Laboratory
- Advanced Nuclear Physics Research Laboratory
- Nanomaterial's synthesis and characterization Laboratory
- Experimental High Energy Physics (EHEP) Laboratory
- Quantum Thermodynamics Laboratory
- Computational Quantum Many Body Physics Laboratory
- Laboratory of Multifunctional Materials

Sponsored Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (In Lac.)
1.	Dr Harleen Dahiya	DST-SERB	Study Of Generalized Transverse Momentum-Dependent Distributions and Wigner Distributions Of Parton	660000
2.	Dr Arvind Kumar	DST-SERB	Fluctuations and Correlations: A Hunt to QCD Critical End Point	504479
3.	Dr Abhinav Pratap Singh	Inter University Accelerator Centre, New Delhi	Study of evolution of ZnSnO ₃ phase in pure and doped Zinc stannate thin films with swift heavy ion irradiation	675000
4.	Dr Kiran Singh	UGC-DAE Consortium for Scientific Research, Indore	Investigation of structural correlations at dielectric and magnetic ordering in transition metal oxides	1003000
5.	Dr Kiran Singh	DST-SERB-CRG	Investigating the effect of different substitutions on the magnetoelectric and spin-lattice coupling in alpha Mn ₂ O ₃ and A ₄ B ₂ O ₉ (A=Ni, Co, Mn, Fe and B=Nb and Ta)	4433264
6.	Dr Kiran Singh	UGC-DAE Consortium for Scientific Research, Indore	Investigation on the effect of substitution on the magnetic structure and spin-lattice coupling in A ₄ B ₂ O ₉ family (A=Mn, Co, Ni, Fe and B=Nb and Ta)	135000
7.	PI- Dr Ashok Kumar	ISRO	Piezoelectric actuators for position/shape control applications	2195000
8.	Dr Vinod Ashokan	Scientific Engineering and Research Board	Many-body correlation effects in one-dimensional electronic materials	2963710
9.	Dr Praveen Malik	DST-SERB-CRG	Preparation And Studies Of Energy Efficient Semiconducting Quantum Dots-Liquid Crystal Composites For Next Generation Display Devices	3641264
10.	Dr Sandeep Kansal	B.R.N.S., B.A.R.C., Department of Atomic Energy, Govt. of India	Measurement of Radon, Thoron and their Progeny Distribution in the Different Type of Houses and Natural Radioactivity in soil in Hanumangarh, Churu and Sri Ganganagar Districts of Rajasthan	3801000
11.	Dr Rohit Mehra	TEQIP-III	Toxicological Risk Assessment of Residents due to spatial distribution of Uranium and Associated Water Quality Parameters in Bathinda District of Punjab	400000
12.	Dr Rohit Mehra	Inter-University Accelerator Centre, New Delhi	Dosimetric study of some LiMgPO ₄ and KMgPO ₄ thermoluminescence (T.L.) materials using ion beam	775000

Departmental Society

Brief about society: Physical Science Society (PSS)

- Physical Science Society, as the name suggests, is an initiative by the dynamic physicists of the Department of Physics at NITJ to enhance the social and educational fabric of the nation. The society is highly dedicated to promoting scientific thinking and logical reasoning among the masses for the upliftment of society at large. With a passionate, diligent and well-organized team, the Physical Science Society stands united in its belief- "Science for Service".
- Close your eyes and think of a book club, perhaps an image comes to mind - a cozy gathering of individuals sporting spectacles, their minds filled with the wisdom of countless pages. While that image is cherished by many, we're here to tell you that a book club can be so much more. "The Socratic Circle" is rewriting the narrative on what a book club can be, breaking free from the conventional mold to create a vibrant community of intellectual explorers. Unveiling Our Purpose "The Socratic Circle" is dedicated to unlocking the power of literature and ideas in a way that goes beyond stereotypes and welcomes all knowledge seekers. We are more than just a reading club; we strive to expand horizons, foster critical thinking, and embrace diverse perspectives. Goals That Set Us Apart Intellectual Exploration: Our main goal is to embark on a journey of intellectual exploration. We go beyond the surface, delving deep into the realms of literature, philosophy, and science, constantly questioning, challenging, and enriching our perspectives. Breaking Down Barriers: Inclusivity is at the heart of our club. We are not just for those who have read countless books; we welcome anyone with a curious mind. Whether you are a seasoned reader or just starting your literary journey, you are welcome here. Interdisciplinary Dialogues: We believe that knowledge knows no boundaries. Our club thrives on interdisciplinary dialogues, connecting the dots between diverse fields of study. We bridge the gap between science and philosophy, art and technology, history and futurology. Philosophical Inquiry: We embrace the ancient practice of Socratic questioning. Our discussions delve into existential questions, the meaning of life, ethical dilemmas, and the profound insights of great philosophers. We invite you to join us on this quest for wisdom. Cultivating Intellectual Growth: We are not just focused on reading for the sake of it; we prioritize intellectual growth. Through regular meetings, pre-reading rituals, thoughtful discussions, and moments of reflection, we foster a culture of continuous learning. A Collaborative Future: We are not just a club; we are a community. Our members actively contribute to shaping the direction of our readings. We encourage you to share your recommendations for future learning, ensuring that our journey remains dynamic and responsive to your interests. In conclusion, "The Socratic Circle" is a book club that defies expectations. We are here to ignite your curiosity, broaden your horizons, and provide a platform for meaningful discussions that transcend boundaries. Whether you are a bookworm or a novice reader, a philosopher or a scientist, there is a place for you here. Join us as we embark on a voyage of intellectual discovery, where spectacles are optional, but an inquisitive mind is a must. Welcome to a reimagined book club experience.

Achievement of Students

Sr. No.	Name of student	Employment details
1.	Manya Dawra	Aakash + Byju's
2.	Simran	Aakash + Byju's
3.	Neha Bharti	Aakash + Byju's
4.	Prayansh Sharma	Aakash + Byju's
5.	Seetaram Sharma	Aakash + Byju's
6.	Tanmay Verma	Aakash + Byju's
7.	Mohd Shoaib Malik	Physics Wallah
8.	Kanika Sanwal	Physics Wallah

Number of Students Qualifying various competitive exams:

- GATE-2023

Sr No.	Student Name	Rank
1.	Saransh Tanwar	383
2.	Reetanshu Pandey	1317
3.	Manya Dawra	1482
4.	Sarthak Samal	2399
5.	Vidya V	2737
6.	Rakesh Singla	3871
7.	Neha Bharti	7619

Student Placement (Batch- 2016-20)

- Highest package: 11 Lakh per annum
- Lowest package: 1.5 Lakh per annum

The faculty members of the department are actively engaged in research in the areas of Laser Plasma Interactions, Theoretical Nuclear Physics, Radiation Physics, Experimental Nuclear Physics, Theoretical High Energy Physics, Soft Condensed Matter, Physics- Experimental (Liquid Crystals), Condensed Matter Physics (Experimental), Multiferroics, Ferroelectric and Piezoelectric, Theoretical High Energy Physics, Theoretical Condensed Matter Physics, High Energy Physics, Experimental Condensed Matter Physics, Quantum Thermodynamics, Nanomaterial's and Nanotechnology etc.

9.14 Mechanical Engineering

Departmental Website Link: <https://departments.nitj.ac.in/dept/me/Home>

Faculty

Name	Designation	Qualification	Email
 Dr Dinesh Kumar Shukla	Professor	PhD Welding Technology (IIT Delhi)	shukladk@nitj.ac.in
 Dr Joseph Anand Vaz	Professor	Post-Doc (Ritsumeikan University, Japan), PhD Mechanical Engineering (IIT Kharagpur)	anandvaz@nitj.ac.in
 Dr Pramod Kumar	Professor	PhD Mechanical (NIT Jalandhar)	kushwahapramod@nitj.ac.in

	Dr Raman Bedi	Professor & Head	PhD Mechanical Engineering (NIT Jalandhar)	bedir@nitj.ac.in
	Dr Srinivas Tangellapalli	Professor	Post-doc (University of Ontario Institute of Technology (UOIT), Canada), PhD Mechanical Engineering (JNT University College of Engineering, Hyderabad)	srinivast@nitj.ac.in
	Dr Subhash Chander	Professor	PhD Thermal Engineering (IIT Delhi)	chanders@nitj.ac.in
	Er. Ajay Trehana	Associate Professor	M.Tech Mechanical (N.I.T. Jalandhar)	trehana@nitj.ac.in
	Dr Dushyant Singh	Associate Professor	PhD (Thermal) Mechanical Engineering (IIT Delhi)	dushyants@nitj.ac.in
	Dr R S Bharj	Associate Professor	PhD Mechanical Engineering (NIT Jalandhar)	bharjrs@nitj.ac.in
	Dr Rajeev Kukreja	Associate Professor	PhD Mechanical Engineering (Thermal) (IIT, Delhi)	kukrejar@nitj.ac.in
	Dr S K Tiwari	Associate Professor	PhD Mechanical (NIT, Jalandhar)	tiwarisk@nitj.ac.in

	Dr Sarbjot Singh Sandhu	Associate Professor	PhD Energy Studies (IIT, Delhi)	sandhuss@nitj.ac.in
	Dr Ashok Kumar Bagha	Assistant Professor (Grade-I)	Post-doc Active Noise Control (Nanyang Technological University (NTU) Singapore) PhD Mechanical Engineering (Design) (IIT, Delhi)	baghaak@nitj.ac.in
	Dr Dwesh K. Singh	Assistant Professor (Grade-I)	PhD Mechanical (Thermal Engineering) (IIT(ISM) Dhanbad)	singhdk@nitj.ac.in
	Dr Harpreet Singh	Assistant Professor (Grade-I)	PhD Mechanical Engineering (IIT Roorkee, U.K., India)	singhh@nitj.ac.in
	Dr Manoj Kumar	Assistant Professor (Grade-I)	PhD Solid Mechanics and Design (I.I.T Kanpur)	kumarm@nitj.ac.in
	Dr Nitin Sharma	Assistant Professor (Grade-I)	PhD Design and Tribology (NIT Hamirpur)	sharman@nitj.ac.in
	Dr Parnika Shrivastava	Assistant Professor (Grade-I)	PhD Mechanical (IIITDMJ)	shrivastavap@nitj.ac.in
	Dr Rajan Kumar	Assistant Professor (Grade-I)	PhD Mechanical Engineering (Thermal Engineering) (IIT Mandi)	rajank@nitj.ac.in

	Dr Sanjay	Assistant Professor (Grade-I)	PhD Thermal Engineering (MNIT Jaipur)	sanjay@nitj.ac.in
	Dr Satyender Singh	Assistant Professor (Grade-I)	Post-Doctoral Research Fellow: Multiphase Flow (CMFD) & Microfluidics (Computational Fluid Dynamics Lab., IIT Bombay) PhD Thermal and Fluid Engineering (NIT Hamirpur)	satyenders@nitj.ac.in
	Dr Saurabh Kango	Assistant Professor (Grade-I)	PhD Mechanical Engineering (Tribology) (NIT Hamirpur)	kangos@nitj.ac.in
	Dr Sumit Sharma	Assistant Professor (Grade-I)	PhD Mechanical Engineering (NIT Jalandhar)	sharmas@nitj.ac.in
	Dr Ravi Kant Ravi	Assistant Professor (Grade-II)	PhD Mechanical Engineering (IIT Roorkee, U.K., India)	ravirk@nitj.ac.in
	Dr Ranchan Chauhan	Assistant Professor	PhD Energy Engineering (NIT Hamirpur)	chauhanr@nitj.ac.in

Academic Programme

- **Undergraduate Programme**

B Tech in Mechanical Engineering

- **Postgraduate Programmes**

MTech in Design Engineering

MTech in Thermal Engineering

PhD Programmes in Mechanical Engineering

Laboratory Facilities

- Computer Aided Design Laboratory
- Fluid Mechanics and Fluid Machinery Laboratory
- Heat Engine Laboratory

- Heat Transfer Laboratory
- Industrial Automation Lab
- Materials Characterization Laboratory
- Mechatronics Lab
- Refrigeration & Air Conditioning Laboratory
- Strength of Materials Laboratory
- Vibration Laboratory

Research and Development

The faculty members of the department are actively engaged in research in the areas of Robotics and Control, Welding, Vibration & Control, Composite Materials, Finite Element Analysis, Tribology, Microwave Processing, Atomistic Modelling & Simulation, Corrosion, Surface Coating, Fatigue & Creep, Flame Impingement, I. C. Engine, Refrigeration & Air Conditioning, CFD, Solar Energy, Solar Air Heaters, Micro-channels, Desallination, etc.

Sponsored Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (In Lac.)
1.	Dr Sateesh Awasthi, Dr Ashok kumar	ISRO	Design & Development of D-sub miniature space grade connectors for space applications	730000
2.	Prof Anand Vaz	DST-SERB	Design, Development and control of a three joint string-tube actuated finger prosthetic system for position or force trajectories at the tip"	4608277
3.	Prof Anand Vaz, Dr KS Nagla, Dr Nitesh Kashyap	ISRO	Modelling and simulation of antenna control servo system	750000
4.	Dr T Srinivas, Dr Rajan Kumar	DST	Concentrated Solar Air Heater with Passive Tracking Mechanism and Corrugated Receiver	1842000
5.	Prof Subhash Chander, Dr Satyender Singh, Dr Dwesh K Singh	ISRO	Improving the heat transfer efficiency of thermal base plate inside a thermal vacuum chamber	3000000
6.	Dr Satyender Singh	DST-SERB-EEQ	Design and development of a PCM integrated solar air heater for 24 hours hot air supply	2718804
7.	Dr Sumit Sharma, Dr Nitin Sharma	ISRO	Modeling of polymer derived SiBOC ceramic materials	212000
8.	Dr Harpreet Singh	DST-SERB-CRG	Development, Characterization and Analysis of Hybrid Chemomechanical Magnetorheological Abrasive Finishing for Biomedical Applications	3218040
9.	Dr Ashok Kumar, Dr Kiran Singh, Dr Sanjay	ISRO	Piezoelectric actuators for position/shape control applications	2195943
10.	Dr Parnika Shrivastava	SERB-DST	Design and Development of an electricity hybrid double sided incremental forming machine for efficient production of customized biomedical implants with improved surface finish and geometrical accuracy	4356264

Departmental Society

- **SOME (Society of Mechanical Engineers)**, is more than what a typical event organizing team is. Being established in 1993 by some faculty members and students, it is now one of the leading chapters of ISME in North India. Our mission is to promote and enhance technical competency, better insight and professional well-being of the students inside the campus. We were recently involved with techNITi, the annual tech-fest of Dr B R Ambedkar National Institute of Technology, Jalandhar.
- **Avishkar**, team Avishkar is a synonym for excellence, integrity, and hard work. The foundation of the team was led in 2013 when a group of 25 automaniacs having out of box thinking emerged as a team and worked hard together in order to do something distinct and apart from their course curriculum, something that would help them excel in the industrial work and help them recognized in the national and international stage. Thus, the team considered BAJA SAE India as the first step for getting perfection in industrial work and the whole started working for its spending days and sleepless nights. Leaving no stone unturned in fabricating the vehicle and making it a tough fight to the competition.
- **Daksh**, team Daksh was originated by a clique of students who had the notion to form a team that would give the team members a pragmatic approach toward the automotive field. Apart from studying the curriculum taught in the college, the team has put in a lot of endeavors to fabricate the vehicle distinguishing our vehicle from other vehicles at national as well as international level. The team has been successful in promoting greener mobility as well as the need to shift to renewable sources of energy. The team has brought many laurels to the institute and is determined to continue its legacy. The number of renewable energy-based vehicles is going to rise exponentially in the coming years. We hope to be part of this change, and that's why our goal is to participate in ESVC (Electric solar vehicle championship) 2023, organized by ISIE India. Through this competition, we hope to increase our technical competence in this non-conventional field.

Achievement of Students

- M.Tech students got selected for internship with stipend at Philips and Tata Motors.
- B.Tech students got placed in different companies like; Technip Energies, Juibillant Biosis, Oceaneering, Incture, Veolia, Maruti Suzuki, Reliance Industries Limited, Samsung Engineering, Aarti Industries Limited, Ashok Leyland, Hyundai, Hero MotoCorp etc.
- Some B.Tech students got six months internship in Flipkart.

9.15 Textile Technology

Departmental Website Link: <https://departments.nitj.ac.in/dept/tt/home>

Faculty

	Name	Designation	Qualification	Email
	Dr Monica Sikka	Professor & Head	PhD (NITJ)	sikkam@nitj.ac.in
	Dr J. N. Chakraborty	Professor (HAG)	PhD (IIT Delhi)	chakrabortyjn@nitj.ac.in
	Dr S. K. Sinha	Professor (HAG)	PhD (NITJ)	sinhas@nitj.ac.in

	Dr A. Mukhopadhyay	Professor	PhD (MDU)	arunangshu@nitj.ac.in
	Dr A. Chatterjee	Professor	PhD (IIT Delhi)	chatterjeea@nitj.ac.in
	Dr Vinay Midha	Professor	PhD (IIT Delhi)	midhav@nitj.ac.in
	Dr N. Bhowmick	Associate Professor	PhD (NITJ)	bhowmickn@nitj.ac.in
	Dr M. D. Roy	Associate Professor	PhD (NITJ)	roymd@nitj.ac.in
	Dr A. K. Choudhary	Professor	PhD (NITJ)	choudharyak@nitj.ac.in
	Dr Lalit Jajpura	Associate Professor	PhD (ICT Mumbai)	jajpural@nitj.ac.in
	Dr Palaniswamy N. K.	Associate Professor	PhD (Anna University)	nkpalaniswamy@nitj.ac.in
	Dr K. V. P. Singh	Assistant Professor	PhD (NITJ)	singhkv@nitj.ac.in

	Dr Zunjarrao Bapuso Kamble	Assistant Professor	PhD (IIT Delhi)	kamblezb@nitj.ac.in
	Dr Mukesh Bajya	Assistant Professor	PhD (IIT Delhi)	bajyam@nitj.ac.in
	Dr Anilkumar Lalchand Yadav	Assistant Professor	PhD (IIT Delhi)	yadaval@nitj.ac.in
	Dr Priyanka Gupta	Assistant Professor	PhD (IIT Delhi)	guptap@nitj.ac.in

Academic Programme

- **Undergraduate Programme**
B Tech in Textile Technology
- **Postgraduate Programmes**
MTech (Full-time) in Textile Engineering and Management
MTech (Part-time) in Textile Technology
PhD Programmes (Full-time and Part-time)

Laboratory Facilities

- Fibre Science Laboratory
- Textile Testing Laboratory
- Advanced Fabric Research Laboratory
- Yarn Manufacturing Laboratory
- Fabric Manufacturing Laboratory
- Knitting Technology Laboratory
- Textile Chemical Processing Laboratory
- Garment manufacturing Laboratory
- Computer Centre

Research and Development

Department of Textile Technology conducts research in the areas of technical textiles, wound care materials, compression bandages, antimicrobial textiles, surgical gowns, modeling of textile structures, nonwovens, sewing threads, geotextiles, Design of carpet and its characterization, Design of filter media, aerosol filtration, water filtration, Fibre shedding during the mechanical processing of textiles, textile chemical processing, textile effluent management, polymers and bio-polymers, eco-friendly textiles, conductive and electromagnetic shielding textiles and their composites, fluid and heat flow through fibrous assembly, apparel engineering, impact loading of parachute fabrics, 3D weaving, 3D hollow fabrics, and their composites, protective textiles, application of shear thickening fluid, textile waste recycling, textile structural composite materials, nanocomposites, tactile and aesthetic comfort of textiles.

Sponsored Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (In Lac.)
1.	Dr A Mukhopadhyay Dr Vinay Midha	National Technical Textile Mission, Ministry of Textiles, Govt. of India	Design and Development of Nonwoven Composite Filters for Efficient Atmospheric Air Filtration, 2024 Duration: 1 year.	100
2.	Dr Vinay Midha Dr A Mukhopadhyay		Runoff erosion control using jute and coir biaxial stitch bonded nonwoven geotextiles, 2023. Duration: 2 years.	215
3.	Dr Palaniswamy N K Dr A Mukhopadhyay		Solution Blow Spinning (SBS) of micro/nanofibre fabrics for air filtration: A potential and scalable technique alternative to Electrospinning, 2023. Duration: 2 years.	170
4.	Dr Zunjarrao B Kamble Dr Lalit Jajpura		Design And Manufacturing of Advanced And Multifunctional Textile Structural Composite Materials Using Textile Waste, 2023. Duration: 1 year.	105
5.	Dr Mukesh Bajya Dr Lalit Jajpura Dr A L Yadav Dr Z B Kamble		Development of cost effective ballistic and stab resistance soft body armour by using different high-performance materials, 2023. Duration: 2 years.	188
6.	Dr A Mukhopadhyay Dr Palaniswamy N K		Development and manufacture of ultra-high molecular weight polyethylene (UHMWPE) nano-fabrics and its composite for reusable respiratory masks, 2022. Duration: 1.5 years.	55.0
7.	Dr Anilkumar L Yadav	SERB, Govt. of India	Biopolymeric porous carriers through assembly of emulsion templating and microfluidics for controlled delivery of drugs and therapeutics, 2023. Duration: 2 years.	30
8.	Dr Vinay Midha, Dr A Mukhopadhyay	Punjab State Council for Science & Technology	Development of open weave geomeshes using recycled wool for run off erosion control, 2023 Duration: 1 year.	5.0
9.	Dr Zunjarrao B Kamble	SERB, Govt. of India	Design and development of 3-dimensional textile structures manufacturing system with novel shedding mechanism and multiple weft insertions, 2023. Duration: 2 years.	26.82
10.	Dr A Mukhopadhyay Dr Palaniswamy N K	National Technical Textile Mission, GOI	Development and manufacture of ultra-high molecular weight polyethylene (UHMWPE) nano-fabrics and its composite for reusable respiratory masks, 2022. Duration: 1.5 years.	55.0
11.	Dr A Mukhopadhyay Dr A K Choudhary Dr Vinay Midha	Khadi and Village Industries Commission	Value addition of Pashmina Guard Hair through suitable product development, 2022. Duration: 4 years.	15.0
12.	Dr A Mukhopadhyay Dr A K Choudhary	DST- India Austria Joint research project	Optimization of pulse cleaning parameters for achieving high-level performance of filter media during industrial pollution control, 2019. Duration: 1 year.	10.0

13.	Dr A Mukhopadhyay	CSIR, Govt. of India	Designing of fabric wet abrasion tester, 2017. Duration: 4 years.	29.3
14.	Dr A Mukhopadhyay	DST, Govt. of India	Designing of fabric tensile impact testing machine, 2016. Duration: 6 years.	36.02
15.	Dr Vinay Midha Dr A Mukhopadhyay	DST, Govt. of India	Development of a Positive thread-feeding device for the Sewing Machine, 2015. Duration: 3 years.	22.11

Consultancy Projects

S. No.	Name of the Investigator	Funding Agency	Title of the project and duration	Amount sanctioned (In Lac)
1.	Prof Vinay Midha and Dr Monica Sikka	Tynor Orthotex , Mohali	SOP modification and standardization	3.36
2.	Dr A Mukhopadhyay	Indian Institute of Technology Delhi	Studies on air ventilation in central air conditioning units in post COVID-19 scenario guided by machine learning & AI Tech	0.5
3.	Dr J N Chakraborty, Dr Vinay Midha	Davinder Sandhu Impex Pvt Ltd. Ludhiana	Assessment report of ETP plant	1.65
4.	Dr J N Chakraborty	JCT Ltd. Phagwara	Study of water cycle and efforts towards zero discharge	2.0
5.	Dr J N Chakraborty	Punjab Pollution Control Board, UNIT-II, Ludhiana	Assessment of Trade Effluent Generated by Dyeing/Textile Industries in Ludhiana	1.43

Departmental Society

• TexStyle Society

Tex Style Society was founded in 1989 with the primary objective of bridging the divide between industrial demands and student comprehension within the textile domain. Additionally, the society endeavors to enlighten students about their career prospects through counseling sessions. Over the years, the society has organized numerous events including expert and alumni lectures, counselling sessions, farewells, fresher parties, cultural activities showcasing the diverse talents and traditions within the textile community, promoting cultural exchange and appreciation, sports activities to encourage physical well-being and camaraderie among students, fostering teamwork and sportsmanship, drawing and sketching competitions to nurture artistic expression and creativity among students, showcasing their talents in visual arts. These initiatives collectively illuminate the path towards the holistic well-being of the textile community.

Achievement of Students

- GATE 2024 rankers: **Mr Anmol Mahajan (AIR 7)**, Mr Ashish Handa (AIR 34), Mr Ritik verma (Air 67), Ms Reena Yadav (AIR 83), Ms Anshika Rajput (AIR 83), Mr Anshuman Upadhyay (AIR 89).
- Mr Ritik Kumar, Ms Anshika Rajput, Ms Kirti Arora, Ms Muskan, Mr Ritik Verma got placed in Trident Ltd with **12 LPA package**.
- BTech students Jyotika Parul, Shivam Kumar, Shekhar, Utkarsh Jain, Atul Sharma and PhD research scholar Sudhanshu Singh won prizes for model-prototype presentation and poster presentation competition organized by Institution's Innovation Council, NIT Jalandhar on National Science Day.
- Mr Sudhanshu Singh, PhD scholar received Best Project award in the project competition organized during the celebration of Engineer's Day at NIT Jalandhar.

9.16 Department of Integrated Teacher Education Programme [ITEP]

Departmental Website Link: <https://v1.nitj.ac.in/ITEP>

Faculty

Name of Faculty	Designation	Qualification	Email	
Chemistry				
	Dr Balbir Singh Kaith	Professor (HAG)	PhD (Panjab University Chandigarh)	kaithbs@nitj.ac.in
	Dr N C Kothiyal	Professor (HAG)	PhD (IIT-ISM Dhanbad)	kothiyalnc@nitj.ac.in
	Dr Rajeev Jindal	Associate Professor & Head	PhD (Panjab University, Chandigarh)	jindalr@nitj.ac.in
	Dr Sangeeta Obrai	Associate Professor	PhD (GNDU (campus), Amritsar)	obrais@nitj.ac.in
	Dr Jaspreet Kaur Rajput	Associate Professor	PhD (Punjabi University, Patiala)	rajputj@nitj.ac.in
	Dr Uma Shanker	Associate Professor	PhD (IIT, Roorkee)	shankeru@nitj.ac.in
	Dr Vimal Kumar	Associate Professor	PhD (GNDU, Amritsar)	bhardwajvk@nitj.ac.in

	Dr Vickram Jeet Singh	Associate Professor	PhD (GNDU, Amritsar)	singhvj@nitj.ac.in
	Dr Rakesh Kumar	Associate Professor	PhD (ETH Zurich Switzerland)	rakeshkumar@nitj.ac.in
	Dr Sadhika Khullar	Assistant Professor	PhD (Indian Institute of Science Education and Research Mohali)	khullars@nitj.ac.in
	Dr Sanjeeb Sutradhar	Assistant Professor	PhD (IIT Madras)	sutradhars@nitj.ac.in
Physics				
	Dr Arvinder Singh	Professor (HAG)	PhD (GNDU, Amritsar)	arvinders@nitj.ac.in
	Dr H M Mittal	Associate Professor & Head	PhD (Delhi University)	mittalhm@nitj.ac.in
	Dr Rohit Mehra	Associate Professor	PhD (GNDU Amritsar)	mehrar@nitj.ac.in
	Dr Harleen Dahiya	Associate Professor	PhD (Panjab University)	dahiyah@nitj.ac.in

	Dr Abhinav Pratap Singh	Associate Professor	PhD (Inter University Accelerator Centre, New Delhi)	jaiswarsinghap@nitj.ac.in
	Dr Arvind Kumar	Associate Professor	PhD (IIT Delhi)	kumara@nitj.ac.in
	Dr Praveen Malik	Associate Professor	PhD (TIET, Pataila)	malikp@nitj.ac.in
	<u>Er</u> Jyoti Bharj	Associate Professor	M.Sc.	jyoti@nitj.ac.in
	Dr Kiran Singh	Assistant Professor	PhD (B. U. Bhopal)	singhkp@nitj.ac.in
	Dr Shishram Rebari	Assistant Professor	PhD (IISER Mohali)	rebaris@nitj.ac.in
	Dr Suneel Dutt	Assistant Professor	PhD (Panjab University)	dutts@nitj.ac.in
	Dr Vinod Ashokan	Assistant Professor	PhD (IIT, Roorkee)	ashokanv@nitj.ac.in

Mathematics				
	Dr Jaspal Singh Aujla	Professor	PhD (Panjab University Chandigarh)	aujla@nitj.ac.in
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	Dr Geeta Pratap	Associate Professor	PhD (KURUKSHETRA UNIVERSITY)	pratapg@nitj.ac.in
	Dr Anupam Yadav	Associate Professor	Post Doc Optimization (Korea University, South Korea)	yadava@nitj.ac.in
	Dr Raghuw Raman Sinha	Associate Professor	PhD (BHU, Varanasi)	sinharr@nitj.ac.in
	Dr Sivaraj R	Associate Professor	Post Doc Mathematics (United Arab Emirates University, Al Ain, UAE)	sivarajr@nitj.ac.in
	Dr Deepika Rani	Assistant Professor (Grade-I)	PhD (IIT Roorkee)	ranid@nitj.ac.in
	Dr Mohammad Zafar	Assistant Professor (Grade-I)	PhD (IIT Bombay)	zafarm@nitj.ac.in

	Dr Neha Yadav	Assistant Professor (Grade-I)	Post Doc (Korea University, S. Korea)	yadavn@nitj.ac.in
	Dr Ravinder Kumar Thakur	Assistant Professor (Grade-II)	PhD (HPU)	thakurrk@nitj.ac.in
	Dr Sukhjit Singh Kundal	Assistant Professor (Grade-I)	PhD (IIT Kharagpur)	kundalss@nitj.ac.in
	Dr Ravinder Singh	Assistant Professor	PhD (IIT Kanpur)	singhr@nitj.ac.in
	Dr S Kumar	Assistant Professor (Grade-II)	PhD (IIT Madras)	katiyarsk@nitj.ac.in
Humanities & Management				
	Dr Aditya Prakash	Associate Professor	PhD (JNU, New Delhi)	prakasha@nitj.ac.in
	Dr Shyamkiran Kaur	Assistant Professor (Grade-II)	PhD (Central University of Punjab)	kaursk@nitj.ac.in
Guest Faculty				
	Dr Amanpreet Kaur	Guest Faculty	PhD	kauraman767@gmail.com

	Dr Manjit Kaur	Guest Faculty	PhD	kaurdrmanjit704@gmail.com
	Ms Babita	Guest Faculty	M.A. in Finance	babita95306@gmail.com

Academic Programme

- Undergraduate Programme

Laboratory Facilities

- Organic Chemistry Lab
- Inorganic Chemistry Lab
- Physical Chemistry Lab
- Physics Lab
- Fundamental of Electronics (Lab)
- Fundamental of Information Technology (Lab)



10. CENTRES & OTHER FACILITIES

10.1 Center for Energy and Environment

Centre for Energy and Environment is dedicated to advancing research, education, and outreach in the fields of energy and environmental studies. The centre is committed to explore innovative solutions that address the global challenges of sustainable energy production, environmental conservation, and climate change mitigation. At the Centre for Energy and Environment, the mission is to foster interdisciplinary collaboration among researchers, students, and experts from various fields. By combining expertise from engineering, science, policy, and economics, the aim is to drive impactful research and promote the adoption of environmentally friendly and efficient energy technologies. The centre is at the forefront of cutting-edge research in areas such as renewable energy sources, energy storage systems, electric vehicle, sustainable buildings, energy efficiency, and environmental policy analysis. The centre collaborates with industry partners, government agencies, and international organizations to develop solutions that have real-world applications and positive impacts on society. The curriculum integrates theoretical learning with hands-on experiences, encouraging students to engage in research projects, internships, and fieldwork. Through these programs, students have the opportunity to become future leaders in the energy and environmental sectors. Engaging with the community is a vital aspect of center's activities. The centre organizes workshops, seminars, and public lectures to disseminate knowledge and raise awareness about critical energy and environmental issues. CEE actively seek collaboration with academic institutions, research centers, industries, and governmental bodies both nationally and internationally. The partnerships enable to leverage diverse perspectives and resources, fostering innovation and accelerating the transition to a more sustainable energy future.

Faculty

Name	Designation	Qualification	Email
Dr Mithilesh Kumar Jha	Professor (HAG)	PhD (IIT-ISM) Dhanbad	jhamk@nitj.ac.in
Dr Ajay Bansal	Professor	PhD (PU)	bansala@nitj.ac.in
Dr Renu Gupta	Professor & Head	PhD (NITJ)	bansalr@nitj.ac.in
Dr Shailendra Bajpai	Professor	PhD. (NITJ)	bajpais@nitj.ac.in
Dr Poonam Gera	Associate Professor	PhD. (NITJ)	chadhap@nitj.ac.in
Dr Mahendra Kumar	Assistant Professor	PhD (IIT Roorkee)	mahendrak@nitj.ac.in
Dr Anurag Kumar Tiwari	Assistant Professor	PhD (IIT Kanpur)	tiwaria@nitj.ac.in
Dr Naveen Kumar	Assistant Professor	PhD (MNNIT)	guptank@nitj.ac.in
Dr Zunjarrao Bapuso	Assistant Professor	PhD (IIT Delhi)	kamblezb@nitj.ac.in
Dr Neetu Divya	Assistant Professor	PhD. (NITJ)	divyan@nitj.ac.in
Dr Harimurugan	Assistant Professor	PhD (NIT Karnataka) Karnataka	harimurugan@nitj.ac.in

Academic Programs

Postgraduate program

- M.Tech in Renewable Energy (Jointly offered by NIT, Jalandhar and Sardar Swaran Singh National Institute of Bio Energy, Kapurthala)
- PhD Programme in Renewable energy (Full time and Part Time)

Laboratory facilities

- Renewable Energy Laboratory
- Energy Engineering Laboratory
- Environment Engineering Laboratory

Research and Development

The faculty members of Centre are actively engaged in guiding research in areas of Renewable Energy such as Solar Photovoltaic Devices and Systems, Bio-Energy and Biofuels, Wind and Small Hydro Energy Systems, Process Modelling &

Simulation in Renewable Energy Systems, Solar Thermal Technologies and Applications, Energy Conservation, Management & Audit, Economics and Financing of Renewable Energy Systems, Waste to Energy Conversion Processes, Fuel Cell and Hydrogen Energy.

10.2 Center for Artificial Intelligence

Artificial intelligence (AI) has become increasingly important in today's world as it has the potential to revolutionize numerous industries and significantly impact our daily lives. AI enables machines to learn from data, recognize patterns, and make autonomous decisions, leading to improved efficiency, accuracy, and productivity. It has applications in various sectors, including healthcare, finance, transportation, education, and entertainment, where it can enhance diagnosis and treatment, automate financial processes, optimize logistics, personalize learning experiences, and create immersive experiences. With its ability to analyze vast amounts of data and derive valuable insights, AI has the power to transform industries, drive innovation, and address complex challenges, making it a crucial technology for the modern world. Therefore, capacity building in AI is crucial as it equips individuals and organizations with the knowledge and skills needed to leverage AI effectively, driving economic growth, fostering innovation, and ensuring readiness for the opportunities and demands of an AI-driven world.

Faculty

Name	Designation	Email ID
Dr Arun Khosla	Professor & Head	khoslaak@nitj.ac.in
Dr Geeta Sikka	Associate Professor (on lien)	sikkag@nitj.ac.in
Dr Raghav Raman Sinha	Associate Professor	sinharr@nitj.ac.in
Dr Sateesh Kumar Awasthi	Assistant Professor	awasthisk@nitj.ac.in
Dr Urvashi	Assistant Professor	urvashi@nitj.ac.in
Dr Prashant Kumar	Assistant Professor	prashantk@nitj.ac.in
Dr Om Prakash Verma	Assistant Professor	vermaop@nitj.ac.in
Dr Nisha Chaurasia	Assistant Professor	chaurasian@nitj.ac.in
Dr Kailash Chand Sharma	Assistant Professor	sharmakc@nitj.ac.in

Academics

As an Institute of National Importance, NITJ carries the social responsibilities to promote AI education and training, and therefore, we are running Master of Technology Program in Artificial Intelligence. In addition to teaching in the AI domain, the proposed Centre for Artificial Intelligence is also focusing on Research, Industry Projects and Entrepreneurship.

10.3 Center of Reliability Improvement in Industry

Usually, consumers experience power failures due to problems in the distribution systems. Distribution systems have evolved to an extent where smart technologies are needed for their smooth operation. Network reconfiguration is one of the functions of distribution automation that improves the performance of the system by altering the structure of the distribution network. In literature, different network reconfiguration problems have been resolved with various methods. However, the active power loss minimization problem is considered most of all, because if these losses are less than the standard, the distribution companies can benefit monetarily. In addition, during the last few decades, distribution system reliability has been developed to provide interruption free electricity services. With improved system reliability, power distribution companies can save the expenses that are spent on a distribution system's maintenance and operation after a power failure.

Considering the increasing scope of reliability improvement of power systems and recognizing the pivotal role of Power Grid Corporation of India in this regard, a Centre for Reliability Improvement in Industry was established.

Scope of the Centre

Under Centre for Reliability Improvement in Industry, it is planned to make a close alliance with Industry and helping them in taking consultancy assignments for reliability improvement. Further, this Centre will be focusing on Research and Industry Projects for other sectors/companies also.

Faculty

Name	Designation	Qualifications	Email
Dr R K Garg	Head, Centre for Reliability Improvement in Industry	PhD (TIET Patiala)	hcree@nitj.ac.in gargrk@nitj.ac.in
Faculty involved in teaching online			
Dr R K Garg	Professor HAG in Department of Industrial and Production Engineering, NIT Jalandhar	PhD (TIET Patiala)	gargrk@nitj.ac.in
Dr H K Verma	Professor (Retd.), IIT Roorkee	PhD (IIT Roorkee)	hkverma@gmail.com
Dr Dinesh Kumar	Professor (Retd.), IIT Roorkee	PhD (IIT Roorkee)	dineshme@gmail.com
Dr Sudip Talukdar	Professor (Retd.), IIT Guwahati	PhD (IIT Kanpur)	staluk@iitg.ac.in
Dr Dilbag Singh	Professor, NIT Jalandhar	PhD (IIT Roorkee)	singhd@nitj.ac.in
Dr Anish Sachdeva	Professor, NIT Jalandhar	PhD (IIT Roorkee)	asachdeva@nitj.ac.in
Dr Rohit Bhakar	Associate Professor, MNIT Jaipur	PhD (IIT Roorkee)	rbhakar.ee@mnit.ac.in
Dr Kailash Chand Sharma	Assistant Professor, NIT Jalandhar	PhD (MNIT Jaipur)	sharmakc@nitj.ac.in

Academics

Master of Technology (MTech) program (Self-sponsored) in Power Systems and Reliability in online mode

Year of start: 2022

First batch: 15 (sponsored from Power Grid Corporation of India)

Schedule: Regular classes on Saturdays/Sundays with a compulsory contact program for two weeks per semester

Examination: Quiz/Assignments/Mid-semester in online mode, End semester examination in offline mode

A Master of Technology (M. Tech) program (Self-sponsored) in Power Systems and Reliability in online mode was started in 2022 with an initial intake of 15 students. Given the projected demand of Power Grid for their employees needing qualification enhancement, the institute floated this need-based M. Tech program.

The proposed initiatives are completely aligned with the Vision and Mission of the Institute and National Education Policy–2020. Our National Education Policy lays great emphasis on introduction of need based program for Industry so that our country can take the lead in preparing professionals in this cutting-edge area and become a leading knowledge society in the coming years.

Sponsored Lab under CSR activities

Power Grid Corporation of India has agreed to establish Power Relay Lab at NIT Jalandhar under its CSR activities for giving skill training to the students.

10.4 Center for Continuing Education (CCE)

Centre for Continuing Education (CCE) is established in the Institute to cater the need of the society. The center provides a multidisciplinary platform for policy discourse. This brings researchers, practitioners, and interested members of our community together in order to contribute meaningfully to policy debates on development, resettlement and other such burning issues. The CCE aims to foster new relationships and interactions among public officials, civil society and the private sector in the search for creative solutions to public policy problems take management decision for development of society. The CCE may engage government agencies, national and international academic institutions, NGOs, industries, and individuals to promote management education.

Faculty and Staff

Name	Designation	Qualification	E-Mail
Dr Arvind Bhardwaj	Head, CCE and Professor, Industrial & Production Engg	PhD	cce@nitj.ac.in
Dr, N.K. Srivastava	Coordinator, GIAN Associate Professor, Chemical Engineering.	PhD	srivastavank@nitj.ac.in
Mr Bhupinderjit Singh	Member, CCE Senior Scientific Officer	M.C.A.	bhupinderdhani@nitj.ac.in

The Centre covers the wide range of short term and long-term program to be offered to all citizens of India and abroad. Its aims are as under:

- To conduct courses on public policy, urban and rural planning, skill development, entrepreneurship, management, governance etc.
- To strengthen the government's capacity to effectively implement policies.
- Centre may conduct and organizes management development programmes, seminars, talks, workshops, conferences etc.
- To conduct capacity building programmes in the field of management, engineering, public policy, finance etc.
- Centre may run a long-duration programmes that would help them develop in-depth capability for both policy-making and implementation.
- To conduct short-duration training program for participants from government, civil society, industries and non-profit sectors, private sectors etc.
- Centre will provide policy advisory services, consulting services and research.
- To provide a forum for policy dialogue among policy stakeholders.
- Centre may offer programmes through online mode to cater the need of society.
- To provide any other services which deem fit for the upliftment of society.

10.5 Sports and Healthcare Research Center (SHRC)

The Sports and Healthcare Centre at Dr B.R. Ambedkar National Institute of Technology Jalandhar is a multi-disciplinary branch of science, engineering, and medicine affiliated with the Department of Electronics and Communications Engineering (ECE). This unique academic and research platform was inducted in December 2022. The main objective is facilitating elite athlete-related research, education, and innovation, ensuring healthy well-being. The center nurtures research that aids in developing new sports materials and devices with engineering art for improving human healthcare. The Centre would also pursue research to investigate the biological, physical, psychological, and societal impact of sport and exercise on health, well-being, and human performance across the lifespan of all common individuals and sportspersons. In addition, the Centre intends to enhance performance in sports at various national and international levels (such as the Khelo India Games, National Games, Asian Games, Commonwealth Games, World Cup, Olympic Games, etc.) as per the guidelines of the Government of India.

Faculty

Name	Designation	Qualification	E-Mail
Dr Arunangshu Mukhopadhyay	Head, SHRC and Professor, Textile Technology	PhD	arunangshu@nitj.ac.in
Dr Anish Kumar Sachdeva	Member, SHRC and Professor, Industrial Production Engineering	PhD	asachdeva@nitj.ac.in
Dr Dilbag Singh	Member, SHRC and Professor, Instrumentation and Control Engineering	PhD	singhd@nitj.ac.in
Dr Monica Sikka	Member, SHRC and Professor, Textile Technology	PhD	sikkam@nitj.ac.in
Dr K K Deepak	Member, SHRC and Visiting Professor, Centre for Biomedical Engineering (CBME), Indian Institute of Technology (IIT) New Delhi. Former- Professor & Head, Department of Physiology, AIIMS, New Delhi	PhD	kkdeepak@gmail.com
Dr G S Dhaliwal	Member, SHRC and Associate Professor, Physical Education and Sports	PhD	dhaliwalgs@nitj.ac.in
Dr G N Nikhil	Member, SHRC and Assistant Professor, Bio-Technology,	PhD	nikhilgn@nitj.ac.in

Academics

Doctorate (PhD)

The Sports and Healthcare Research Centre has started a PhD Programme with the following sub-areas of research: physiology, psychology, anatomy, exercise physiology, kinesiology, biomechanics, anthropometry, kin-anthropometry, sports training, sports medicine, rehabilitation, physiotherapy, sports goods, sports biology, human mechanics, biotechnology, etc. The Sports and Healthcare Centre at NIT Jalandhar is an upcoming domain for new-generation sports and human well-being, for which the institute foresees graduating potential doctorates who could work at various levels in academic, scientific, and industrial institutions.

Programme: Full-time/Part-time

Mode: Physical

Eligibility: Candidates interested in pursuing interdisciplinary science and engineering research whose outcomes align with the center's objectives are eligible. The candidate must possess any of the following qualifications:

1. Master's degree in Engineering (BE, B.Tech) /MD degree in Physiology / 4-year degree course in Medicine/Master's degree in Sport Sciences/Master's Degree in Physical Education and Sports / 3 year Master's degree in Medical Physiology/Master's degree in Exercise Physiology.
2. Desirable: Experience in signal processing, exercise physiology, exercise prescription, sports, computational modelling, or sports Sciences.

10.6 Computer Center

Faculty & Staff

Name	Designation	Qualification	Email
Prof A L Sangal	Head	PhD	sangalal@nitj.ac.in
Ms Daljeet Kaur	Principal Scientific Officer	MCA	daljeetkaur@nitj.ac.in
Mr Bhupinderjit Singh	Scientific Officer	M.Tech.	bhupinderdhani@nitj.ac.in
Mr Ashwani Sharma	Technical Assistant (SG-1)	MCA	ashwanisharma@nitj.ac.in
Mr Subhash Yadav	Technical Assistant (SG-1)	MCA, MCSE	yadavs@nitj.ac.in
Mr Hemant Thapar	Technical Assistant (SG-1)	MCA	thaparh@nitj.ac.in
Mr Tarlok Kumar	Sr. Technical Assistant	Diploma	tarlokk@nitj.ac.in
Mr Gursharan Singh	Technical Assistant	B.Tech (CSE)	gursharans@nitj.ac.in
Ms Komalpreet Kaur	Technical Assistant	MCA	komalpreetk@nitj.ac.in
Mr Sachin Sharma	Technical Assistant	Diploma (IT)	sachins@nitj.ac.in
Mr Pawan Ram	Senior Technician	M.Tech	pawanr@nitj.ac.in
Mr Lalit Kumar Verma	Technician	Diploma (IT)	lalitkv@nitj.ac.in
Mr Som Parkash	Technician	M.Sc. (IT)	somp@nitj.ac.in

The Main assignments and activities of this centralized facility are to:

- Provide, manage and ensure the satisfactory operation of joint computer and software facilities for the students and departments that require these facilities.
- Provide technical assistance to various users.
- Ensure the monitoring of the computer network at the institute and the coordination of inter-connections and the management of overall computer facilities for the whole institute.
- Provide computer facilities for the institute administration.

The institute visualizes centralized computing facility, campus-wide networking and information technology as a means to enrich the educational experience and invigorate emerging areas of scholarly research and education. Telecommunication and IT is a mixture of tools that can improve the nature and efficiency of the country and institute as well.

The campus-wide Networking consisting of Academic Zone, Hostel Zone and Residential Zone is with fiber optics (single mode) as backbone. Managed Layer 2/3 switches are installed. The entire academic zone is on 10G. The commissioning of this CWN has been done for 2250 nodes. The Campus, Girls and Boys Mega Hostel have been put on Wi-Fi.

Two leased lines caters for the internet facility of the institute, The ISPs being, BSNL (500 Mbps) and Quadrant Televentures Ltd. (500 Mbps).

For the Computational Services, the center has High-End Computational Servers on which accounts are given to students, staff and faculty of the departments and centres in the campus. The Campus network connects to departments and centres. Network connectivity is also provided to the remote locations, which include both boys and girls' hostels. Computer centre manages and administers the internet links and the internet services such as electronic mail, World Wide Web, DNS, FTP and other services. A UTM has been installed for authenticity and managing users' connectivity to the internet services.

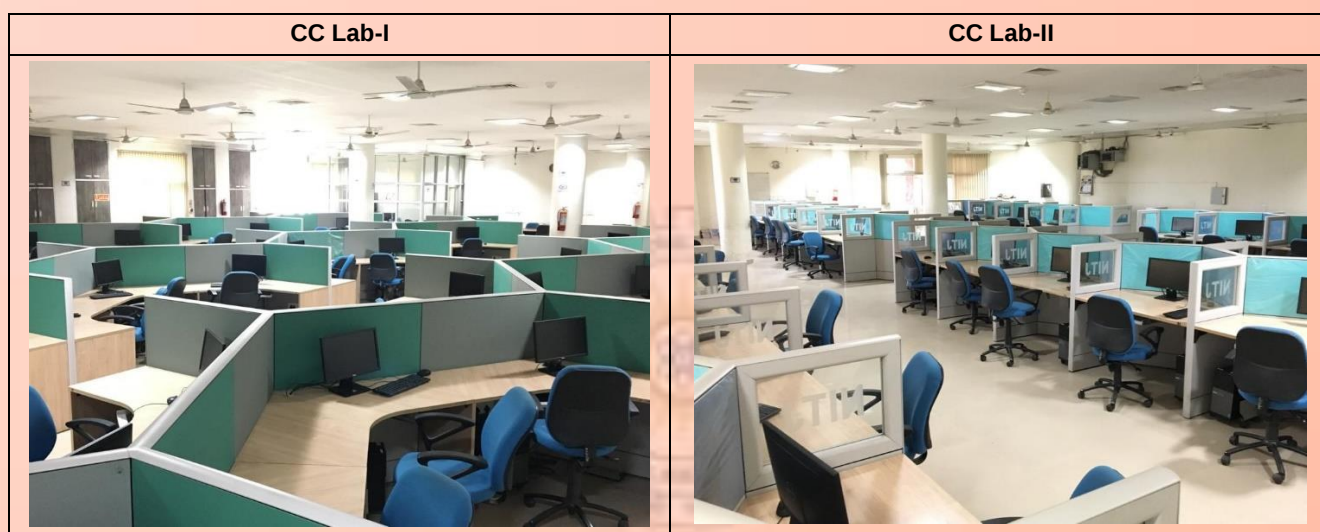
Centre provides computer and network facilities to various festivals, events and seminars held at institute lecture theatre and at departments and centres. Computer Centre also manages the centralized Biometric attendance system and CCTV Surveillance System.

Hardware and Software

To strengthen the data centre capabilities, 12 Cisco Blade Servers and 20 TB SAN Storage have been procured by the institute. 150 Nos. 64-bit machines, 50 P V Duo Core and other infrastructure such as printers and scanners constitute to the students need.

Working Hours (All Working days of the week): 08.30 AM to 09.30 PM

Computer Centre Labs



10.7 Center of Training and Placement

Centre of Training and Placement explores the internship and placement opportunities for the students.

Faculty and Staff

Name	Designation	Qualification	Email
Dr Ajay Gupta	Head, Centre of Training & Placement	PhD	ctp@nitj.ac.in
Dr Om Prakash Verma	Coordinator Centre of Training & Placement	PhD	ctp@nitj.ac.in
Dr Sivaraj R	Coordinator Centre of Training & Placement	PhD	ctp@nitj.ac.in
Dr Asutosh Kar	Coordinator Centre of Training & Placement	PhD	ctp@nitj.ac.in
Mr Rohit Rana	Training Officer	MBA	ctp@nitj.ac.in
Mr Kamaljit	Office Assistant	B. Com	ctp@nitj.ac.in
Mrs Harsh Malhotra	Training Officer		ctp@nitj.ac.in

Placement Details 2020-24 Batch (B. Tech) till date 13.03.2024

Discipline	No. of Eligible Students	No. of Job Offers	No. of Double Job offers	No. of Students Placed	Maximum Package Lac Per Annum		Average Package	Percentage
ECE	88	72	11	61	26.00	Nvidia	11.29	69.32
EE	49	45	4	41	19.80	Oracle	10.00	83.67
CSE	134	128	18	110	53.00	Google	13.53	82.09
IT	109	107	22	85	33.00	Atlassian	11.21	77.98
CHE	45	48	3	45	15.12	Amazon	7.26	100.00
ICE	84	81	16	65	26.00	Nvidia	9.94	77.38
CIVIL	61	40	1	39	15.12	Amazon	7.26	63.93
IPE	67	51	5	46	15.12	Amazon	9.28	68.66
ME	74	81	7	74	17.50	HPCL	8.21	100.00
BT	26	6	0	6	18.00	Bajaj Finserv	9.57	23.08
TT	50	28	1	27	12-18 LPA	Trident Group	9.10	54.00
Total	787	687	88	599			12.34	76.11

Maximum Package Offered – 53 LPA - Google India

Top Recruiters (Highest CTC):

Company Name	Package LPA	Company Name	Package LPA
Google India	53	Rapidfort Inc.	30
Amazon	51	ServiceNow India	26.28
Nvidia	37	Cisco Systems (India) Private Limited	24.73
PayPal University Team	34.4	Goldman Sachs	24
Atlassian	33	Zscaler	23

Top Recruiters (PSU's):

Name	No of Selections	Package LPA
Bharat Petroleum Corporation Limited	10	19.48
HPCL, Mittal Energy Limited	7	9.20
C-DAC	7	7.00
HPCL, Rajasthan	5	10.39
C-DOT	4	19.5
HPCL	3	17.5

Major Recruiters

Bajaj Finance Limited	L&T Limited	Amazon
C-DAC	Hero Motor Corp	Technip Energy
Service Now India	MAQ Software	Jubilantfood works
Microsoft	Samsung Research Noida	Oceaneering
Atlassian	Nvidia	Trident Group
Cvent India	Hyundai Motors	Moody's
Oracle India	Daimler Truck Innovation Center India	Tesco
Google India	Optum	Citi Bank
Genpact NextGen	TA Digital	Reliance Industries Limited
Tredence	HPCL	Ashok Leyland
Fastenal India	Bajaj Finserv	Axtria
Flipkart India	Nokia	HCL Tech
Avalara India	Suzuki Motors	Nayara Energy Limited
Blackrock	Aarti Industries Limited	HPCL, Mittal Energy Limited
Qbit Labs Pvt. Ltd.	Intel	Afcons Infrastructure Ltd.
CLOUDSUFI India Pvt. Ltd.	Samsung Engineering	Bharat Petroleum Corporation Limited
Adobe	Cairn Oil India Pvt. Ltd.	Subros Limited
Airtel Bharti	Himatsingka	Havells
Amantya Technology	Delhivery Limited	Mphasis
Incedo	Vardhman Textile Limited	Arvind Limited
Rapidfort Inc.	HPCL, Rajasthan	Dell India
Trianz	Future First	Maruti Suzuki India

10.8 Central Library

Central Library, Dr B. R. Ambedkar National Institute of Technology was established in 1988 (the same year this institute was established). Since then, this center of learning has been functioning with the aim of encouraging self-learning and to supplement academics, boosting research and development activities, and promoting consultancy activities. At present central library is housed in a multistoried building situated in the midst of all departments and hostels and is easily accessible to all. The total carpet area of library is 1540 sq. feet. All students, faculty members and staff of the institute are entitled to make use of the library facilities. Industrial establishment/corporate houses can also avail the library services on taking institutional/corporate membership of the library. Library consultation facilities are also available to faculty and students of outside institute/organization on request.

Library Team

Name	Designation	Work Responsibility	E-Mail IDs
Dr Sangeeta Garg, PhD	PIC-Library	- Library Administration - Policy Making - Collection Development - E-Resources & Books, E-Books - Infrastructure Development	librarian@nitj.ac.in
Dr D. P. Tripathi, PhD	Deputy Librarian	- Circulation Section - Acquisition – Books - Serial Subscription & Management (Print) - Library Automation (Koha) - Off-Campus Access to Resources (INFED) - Library Website Management (CMS)	tripathidp@nitj.ac.in

		• Membership Management • Membership Card Creation • Catalog - Data Validity • Coordinator – CCE • PG Thesis Management (CSE, ICE, IPE, TT, AI, BT, CH, CEE) for 2023 & 2022 • New Library Android App Development (Under Process) • Research Support Services to Faculty & Scholars	
Mr. Varun Patney	Assistant Librarian	• E-Resources (Journals) • Thesis Management - PG/PhD • Newspaper Clippings - Collecting, Sharing & Uploading - Liaisoning with Director Office • IDR Management @ DSpace • Turnitin - User's Management (Faculty & Scholars)	patneyv@nitj.ac.in
Mr. Mani Ram Yadav	Senior Library Information Assistant	• Acquisition of Books - Processing Invoice & Accessioning • Cataloguing - Metadata Creation, Tooling • Book Bank Management - Issue / Return • Evening Shift Duty (Rotation Basis)	manir@nitj.ac.in
Mr. Davinder Kumar Sharma	Senior Library Information Assistant	• Thesis - Metadata Creation (Koha) • NDC - Staff, Faculty & Students (PG) • Evening Shift (Rotation Basis)	davinderk@nitj.ac.in
Ms. Jeevan Lata	Senior Library Information Assistant	• Circulation - Issue / Return • Membership Management • Other duties assigned by Circulation I/C	jeevanl@nitj.ac.in
Mr. Bikram Chand	Senior Library Information Assistant	• Circulation - Issue / Return • Stack Management • Card Distribution - UG/PG/PhD/Faculty/Staff • Evening Shift Duty (Rotation Basis)	bikramc@nitj.ac.in
Ms. Dimple Sharma	Sr. Superintendent	• Office Management • Circulation (File among offices & departments) • Other duties assigned by the librarian.	dimple@nitj.ac.in
Mr. Kulwinder Singh	Technician	• Binding of Books & Other Materials - Library & Institute • Any other duties assigned by the Librarian.	kulwinders@nitj.ac.in
Mr. Tejwinder Singh	Sr. Attendant	• Supervision at the Entrance (Library) • Checking of Books / Documents • Duties on Saturday and evening (Rotation Basis)	tejvindes@nitj.ac.in
Mr. R. K. Mishra	Sr. Attendant	• Supervision at the Entrance (Library) • Checking of Books / Documents • Duties on Saturday and evening (Rotation Basis)	mishrark@nitj.ac.in

Library Resources and membership

The library collection consists of Books, Back-volumes of Periodicals, Theses, Conference Proceedings, Standards, Reports and CD-ROM/DVD-ROM Databases and Audiovisual materials. The library is having a collection of more than 75000+ documents, subscribing over 5000+ online full- text journals and abstracting databases namely SCOPUS. Besides, there are 300+ e-books.

- Video Library and E-media resources center: The institute library is equipped with video viewing facility also. Audio-Visual section is equipped with 29" T.V & VCP, Multimedia Projector, Projection screen etc. It has a collection of about 1994 videocassettes. CDs., and DVDs.
- Library has a well- equipped e-medial resources center to provide access to virtual resources which includes:
 - ✓ Full-Text Databases (ASME; ASCE; Emerald; IEEE; Science Direct; Springer; Nature; Taylor & Francis; Capitaline)
 - ✓ Citation Database (SCOPUS; Web of Science)
 - ✓ E-Books (Mc-Graw Hill; Pearson; CBS)
- New centrally air-conditioned library building with the capacity to provide computing facility to 500 users is being used by the library members.
- Print Journal and Access to Electronic Journals: The institute Library subscribes to about 89 current journals and magazines in print form and almost all dailies. In addition to the above, and to boost research,
- Library provides the online access to the various electronic resources being published by almost all the major publishers of the world in all subjects of Engineering, Technology, Sciences, and Management etc.
- Library provides specialized services like mobile services, room delivery of Books to Physically challenged students.

Research Support

Central Library ensures to provide maximum research support for the benefit of faculty and research scholars. In order to assist, the library keeps conducting the different training programs / virtual events on regular basis and provides links to access/download the following research tools:

Scopus; Weava tools; Zotero Bib; Grammarly; Mandeley; Zotero; ORCID; Style guides; Turnitin;

10.9 Central Workshop

In this dynamic world, Technology plays a significant role in the learning. It is an established fact that one can have a strong grip on the concept of Science and Technology by seeking logic and reasoning behind them rather than just mugging them up. The youth of today is brimming with curiosity and inquisitiveness. They are perpetually on the move. The rapid pace of technological advancement has made it imperative for us to be well informed in the global scenario. Each day in our life dawns with new challenges to be faced. One needs to be geared up to face these challenges with determination, righteousness and well directed thoughts. All these geared mechanisms are boosted only with the help of practical aspects which are only and only possible on the floor of "Workshop". A workshop is an informative and/or instructional class focused on teaching specialized skill or exploring a particular subject.

Central Workshop Functionaries

S. No	Name	Designation/Qualification	Responsibility	Email
1.	Dr Dinesh Kumar Shukla	Professor/PhD	Head Workshop	shukladk@nitj.ac.in
2.	Dr Gurraj Singh	Assistant Professor/PhD	Coordinator, Workshop	singhg@nitj.ac.in

Central Workshop Staff

S. No	Name	Designation	Responsibility	Email
1.	Mr. Sukhvinder Singh	Technical Assistant SG-I, Co coordinator	Welding Shop	sukhwinders@nitj.ac.in
2.	Mr. Shinderpal	Senior Technical Assistant	Carpentry Shop	shinderp@nitj.ac.in
3.	Mr. Gurmail Singh	Technical Assistant	Electrical Shop Fitting Shop	gurmails@nitj.ac.in

4.	Mr. Umesh Baghel	Technical Assistant	Technical Assistant	umeshb@nitj.ac.in
5.	Mr. Dev Datt	Technician SG-II	Foundry Shop	devd@nitj.ac.in
6.	Mr. Ranbir Singh	Technician SG-II	Smithy shop Machine Shop	ranbirs@nitj.ac.in
7.	Mr. Talvinder Singh	Technician SG-II	Sheet Metal Shop	talvinders@nitj.ac.in
8.	Mr. Narender Kumar	Office Assistant	Office Assistant	narender92461@gmail.com
9.	Mr. Navpreet Singh	Office Lab Assistant	Office Lab Assistant	singhnavpreet969@gmail.com
10.	Mr. Khoob Ram	Office Lab Assistant	Office Lab Assistant	khoobram.dhar@gmail.com
11.	Mr. Karan Joshi	Office Lab Assistant	Office Lab Assistant	karanjoshifalak@gmail.com
12.	Mr. Dalbir Kumar	Office Lab Assistant	Office Lab Assistant	dalbirkumar1971@gmail.com
13.	Mr. Raj Kumar	Office Attendant	Office Attendant	rajkumar20441989@gmail.com

Facilities

The Central Workshop has eight constituent shops viz., Carpentry Shop, Electrical Shop, Fitting Shop, Foundry Shop, Machine Shop, Sheet Metal Shop, Smithy Shop and Welding Shop along with some state-of-the-art machine tool facilities such as CNC Vertical Machining Center (VMC), Ultrasonic Stir Casting, Induction Melting Furnace, Tool and Cutter Grinder available in the workshop.

10.10 Institute Instrumentation Centre (IIC)

Institute Instrumentation Center has been established with an aim to provide high end research facilities to faculty/students/research scholars of the institute. The analytical facilities of IIC are also extended to the students, researchers and faculty members of other Institutes and Organizations of the country as well. Collaboration with Industries on R & D and Consultancy Projects are also welcome by the Institute. Institute Instrumentation Centre aims to:

- Provide facilities for characterization, high- resolution imaging and precision chemical analysis of different kinds of materials.
- Dissipate knowledge and experience in the above through short-term courses/seminar/workshops etc.

Faculty

S. No	Name	Designation/Qualification	Responsibility	Email
1.	Dr Raman Bedi	Professor/PhD	Head IIC	bedir@nitj.ac.in
2.	Dr Anjireddy Bhavanam	Assistant Professor/PhD	Coordinator	bhavanama@nitj.ac.in
3.	Dr Vikram Jeet Singh	Associate Professor/PhD	Co-coordinator	singhvj@nitj.ac.in

Facilities:

- SIGMA 500VP Field Emission Scanning Electron Microscope with EDS and EBSD Sensors
- ICPMS-MS (AGILENT-8900 Series)
- P-Analytical Empyrean XRD

10.11 Institute Incubation Centres

• Entrepreneurship Cell (E-CELL)

Entrepreneurship Cell at NIT Jalandhar aims to encourage the entrepreneurial spirit among the youth by organizing Entrepreneurship Awareness Camps, Entrepreneurship Development Programmes and Faculty Development Programmes within the campus. It aims to build a community which creates an entrepreneurial culture so that the upcoming youth can respond effectively to the emerging challenges and opportunities both at the national and international levels. As a community, the cell aims to provide expertise in intellectual property rights, patent search, etc. for the upcoming entrepreneurs, to guide and assist prospective entrepreneurs on various aspects such as preparing project reports, obtaining project approvals, loans and facilities from agencies of support system, etc. It also conducts guest lectures and skill development training programs for the students to continue building their innovative minds.

Team

S. No	Name	Designation/Qualification	Responsibility	Email
1.	Dr SJS Bedi	Professor/PhD	Patron	bediss@nitj.ac.in
2.	Dr L P Singh	Associate Professor/PhD	Chairman	singhl@nitj.ac.in
3.	Dr Gyan Prakash	Assistant Professor/PhD	Faculty Coordinator	prakashg@nitj.ac.in
4.	Manik Raj	Student Coordinator	Head	manikr.ip.21@nitj.ac.in

• Institute Innovation Council

Ministry of Education, Govt. of India has established MHRD's Innovation Cell (MIC) to systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are in formative years. MIC has envisioned encouraging creation of Institutions Innovation Council (IICs) across selected HEIs. A network of these IICs will be established to promote innovation in the Institution through multitudinous modes leading to an innovation promotion eco-system in the campuses.

IIC Team

S. No	Name	Designation/Qualification	Responsibility	Email
1.	Dr B S Saini	Professor/PhD	President	sainibs@nitj.ac.in
2.	Dr T Srinivas	Professor/PhD	Vice President	srinivast@nitj.ac.in
3.	Dr Lalit Jajpura	Associate Professor/PhD	Convener	jajpural@nitj.ac.in
4.	Dr O P Verma	Assistant Professor/PhD	Co-convener/Member	vermaop@nitj.ac.in

IIC activities and members

S. No.	Activity	Team
1	Start-up activity	Dr RS Bharj (Coordinator)
		Dr Dushyant Singh (Coordinator)
		Dr Anjireddy Bhavanam
		Dr Senthil Kasilingam
		Dr Anil Kumar Lalchand Yadav
		CEO TBI & Manager TBI (Ex-Officio member)
2	Innovation activity	Dr Indu Saini (Coordinator)
		Dr Samayveer Singh (Coordinator)
		Dr Bodile Roshan Mukindrao
		Dr Gurraj Singh
		Dr Sheefali Arora Chouhan
		Dr Karan Jain
3	Internship and technical affairs	Dr Arvind Kumar (Coordinator)
		Dr Sadhika Khullar (Coordinator)
		Dr Manjeet Singh
		Dr M Zafar
		Dr Prashant Kumar
		Dr Jagdeep Kaur
		Dr Neelam Rani
4	IPR Activity	Dr Kuldeep Singh Nagla (Coordinator)
		Dr Jatinder Kumar Rattan

		Dr Varun Sharma
		Dr Sumer Singh Meena
		Dr Amrit pal Singh
		Dr KP Sharma
5	Social media	Dr Sonia Chawla (Coordinator)
		Dr Shyamkiran Kaur (Coordinator)
		Dr OP Verma
		Dr Karan Veer
		Dr Gaurav Kumar
		Dr Avni Vyas
6	ARIIA/NIRF	Dr Vishal S Sharma (Coordinator)
		Dr Satyender Singh (Coordinator)
		Dr Poonam Gera
		Dr T Srinivas
		Dr Kunwar Pal
		Dr Saurabh Kango
7	Yukti 2.0	Dr Kunwar Pal (Coordinator)
		Dr Laltendu Behra
		Dr Mahesh Patel
		Dr Anne Mohanty
		Dr Rohit Singh
8	Finance coordinator	Dr Vickram Jeet Singh (Coordinator)
		Mr Vipam Kumar, AR, Accounts & Store (Ex-Officio)
		Ms Poonam Arora, AR, Audit (Ex-Officio)

Functions of Institution's Innovation Council:

- Promote innovation in the Institution through multitudinous modes leading to an innovation promotion eco-system in the campus.
- To conduct various innovation and entrepreneurship-related activities prescribed by Central MIC in time bounded fashion.
- Identify and reward innovations and share success stories.
- Organize periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.
- Network with peers and national entrepreneurship development organizations.
- Create an Institution's Innovation portal to highlight innovative projects carried out by institution's faculty and students.
- Organize Hackathons, idea competition, mini-challenges etc., with the involvement of industry.

• Technology Business Incubator (TBI)

Technology Business Incubator (TBI) has been established at Dr B R Ambedkar National Institute of Technology Jalandhar with the support of Department of Science and Technology. TBI has been registered as a Society under the Societies Registration Act, 1860 with the name 'NITJ Technology Business Incubator'. NITJ Technology Business Incubator has a separate Board of Governors for laying down the policies and procedures so as to govern the activities for better working towards achieving its objectives.

Governing Board

S. No	Name	Role/Affiliation
1.	Prof Binod Kumar Kanaujia	Chairman (Ex Officio) Governing Board - NITJ Technology Business Incubator & Director NIT Jalandhar
2.	Prof JN Chakraborty	Vice-Chairman, Governing Board - NITJ Technology Business Incubator & Dean (Research and Consultancy) NIT Jalandhar
3.	Prof Srinivas Tangellapalli	Associate Dean (Research and Consultancy) NIT Jalandhar
4	Dr Dapinder Bakshi	Joint Director, Punjab State Council for Science and Tech
5	Dr Ashish Raman	Associate Dean (R&C) NIT Jalandhar
6	Dr Sarabjit Singh	Principal Director, CIHT
7	Dr Jagwinder Singh	Associate Professor, Humanities Dept., NIT Jalandhar
8	Mr. Ashwani Kumar	Director Victor Forging, Jalandhar

Objectives of NITJ Technology Business Incubator:

- To setup a vibrant startup ecosystem so as to align itself with our country's major policy initiatives of Make in India and Start-up India; Stand-up India.
- To set up incubator facilities, provide cost effective infrastructural support and value-added services to startups like mentoring, legal, financial, technical, intellectual property related.
- To support NITJ in creating a platform to nurture creativity, innovation and entrepreneurial skills of faculty and students.
- To provide a platform for speedy commercialization of technologies developed by NITJ or by any other academic/technical/R&D institution or by an individual.
- To build a close and pragmatic collaboration between the educational institutions, research institutions, management institutions on the one hand and industry and other user organisations on the other.
- To facilitate the dissemination of information by organising conferences, seminars, lecture series, workshops and boot-camps, hackathons etc.
- To generally do and perform all the above acts and such other things as may be deemed incidental or conducive to the attainment of the above objects or of any of them or any allied objects or which may advantageously or conveniently be combined with the programme of the Society in a profitable way.

10.12 Skill Development Centre

The Skill Development Centre (SDC) at Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, was established in the year 2024. The aim of SDC is to bridge the skills gap in India by offering premier training programs aimed at enhancing employability across various industries. With a mission to elevate skills to global standards through strong industry collaboration, the center promotes entrepreneurship and self-employment, particularly among underprivileged communities.

It features government-backed major schemes like Pradhan Mantri Kaushal Vikas Yagna (PMKVY) and MSME initiatives, providing practical, industry-relevant training in various fields such as AI, robotics, banking, Agriculture, and IoT funded through government grants, industry partnerships, and program fees, the center continuously adapts to evolving market demands, serving a wide demographic that includes youth, unemployed individuals, and working professionals.

Faculty members

Name	Designation	Email
Dr. Praveen Malik	Head, SDC and Associate Professor Department of Physics	malikp@nitj.ac.in
Dr. Vijay Kumar	Associate Professor, IT Department	vijayk@nitj.ac.in
Dr. Samayveer Singh	Assistant Professor, CSE Department	samays@nitj.ac.in
Dr. Amritpal singh singh	Assistant Professor, CSE Department	apsingh@nitj.ac.in
Dr. Mohit Kumar	Assistant Professor, IT Department	kumarmohit@nitj.ac.in

10.13 Women Cell

INTRODUCTION

The Women Cell at Dr B R Ambedkar National Institute of Technology, Jalandhar was established in 2006 to ensure the dignity of women at work place.

OBJECTIVES

- To facilitate a gender-sensitive and congenial working environment at NIT Jalandhar so that women employees and female students are not subjected to gender specific discrimination or sexual harassment.
- To heighten awareness and sensitivity to this important issue amongst all concerned.

COMMITTEE

Name	Position in the Committee	Email ID	Mobile No.
Dr Sonia Chawla Professor, Humanities and Management	Presiding Officer	chawlas@nitj.ac.in	9888250412
Dr Aruna Malik Assistant Professor (Grade-I), CSE	Member (Women)	malika@nitj.ac.in	8699937336
Dr Neha Yadav Assistant Professor (Grade-I), Mathematics and Computing	Member (Women)	yadavn@nitj.ac.in	7310751691
Ms Sonal Nanda Advocate	Member (Women)	advsn21@gmail.com	9855282111
Dr Afzal Sikander Assistant Professor (Grade-I), ICE	Member (Male)	afzals@nitj.ac.in	7017638266
Dr Rohit Singh Assistant Professor (Grade-II), ECE	Member (Male)	rohits@nitj.ac.in	7087513174
Ms Kulwinder Kaur Private Secretary, Establishment Branch	Member (Women)	kulwinderk@nitj.ac.in	9914142319

Email ID: womencell@nitj.ac.in



11. PHYSICAL EDUCATION AND SPORTS

11.1 National Cadet Corps (NCC)

Name	Designation	Qualification	Email
Dr Dinesh Kumar Shukla	Professor In-charge	PhD	shukladk@nitj.ac.in
Dr Gaurav Kumar	Coordinator	PhD	kumarg@nitj.ac.in

The National Cadet Corps (NCC) came into existence on 16 July 1948 under an Act of Parliament. Its motto 'Unity and Discipline' has guided the NCC in its long-standing effort to mould young volunteers into disciplined and responsible citizens of India. Over the years, in response to the evolving environment, the NCC's initial military orientation was augmented by dimensions of social service and adventure training.

The 'Aim' of the NCC laid out in 1988 have stood the test of time and continue to meet the requirements expected of it in the current socio-economic scenario of the country. The NCC aims at developing character, comradeship, discipline, a secular outlook, the spirit of adventure and ideals of selfless service amongst young citizens. Further, it aims at creating a pool of organized, trained and motivated youth with leadership qualities in all walks of life, who will serve the nation regardless of which career they choose. Needless to say, the NCC also provides an environment conducive to motivating young Indians to join the armed forces.

The Institute had the NCC (Army Wing) with the SD (Senior Division) / SW (Senior Wing) cadets having strength of 105 (both Boys & Girls). The NCC provides opportunities to the youth of the country for their all-round development with sense of duty, commitment, dedication, discipline and moral values, so that they become able leaders and useful citizens. The NCC provides exposure to the cadets in a wide range of activities with a distinct emphasis on Social Services, Discipline and Adventure Training. The NCC is open to all regular students of the Institute (UG only) on a volunteer basis. The students have no liability to active military service. Based on the aims of NCC, the organization has laid down training syllabi for the cadets. The syllabus for the Senior Division is spread over three years. Except for minor variations, the syllabus is similar for both boy and girl cadets. The aspects to be covered in the Army Wing Training are quite comprehensive. All these should be covered adequately to enable Army Wing cadets to achieve a good proficiency in Weapon Training, Firing, Map Reading, Field Engineering, Communication, Health and Hygiene, and also understand the broad outline organization of Army Units. The training year is w.e.f. 01 Apr to 31 March. Training schedules planned for cadets ensure that the optimum benefits of the organization reach to maximum number of cadets. On successful completion of the laid down syllabi, cadets of Senior Division are eligible for 'B' & 'C' certificate examinations.

Eligibility Conditions for Certificate Examinations

Certificate 'B'

- The cadet must have attended a minimum of 75 of total training period laid down in the syllabus for the first and second years of Senior Division Wing NCC (All Wings).
- Break in the NCC Service of the cadets prior to his/her appearing in the examination should not exceed more than 12 months at one time.
- The candidate must have attended one ATC.
- Cadets possessing 'A' certificate will be awarded 10 bonus marks.

Certificate 'C'

- The candidate must be in possession of Certificate 'B'.
- The cadet must be in the third year of SD/SW NCC Training.
- The cadet must have attended a minimum of 75% of the periods of 3rd year syllabus during the academic session.
- Break in the NCC Service of the cadet SD/SW prior to appearing in the exam should not exceed more than 18 months at one time.
- The cadet must have attended one ATC and one of the other listed national camps.

11.2 National Service Scheme (NSS)

Name	Designation	Role	Qualification	Email
Dr Kiran Singh	Associate Professor	Coordinator	PhD	singhkp@nitj.ac.in
Dr Harpreet Singh	Assistant Professor	Co-coordinator	PhD	singhh@nitj.ac.in
Dr Narendra Kumar	Assistant Professor	Member	PhD	kumarn@nitj.ac.in
Dr Aruna Malik	Assistant Professor	Member	PhD	malika@nitj.ac.in
Dr Tarun Chaudhary	Assistant Professor	Member	PhD	chaudharyt@nitj.ac.in
Dr Mahesh Patel	Assistant Professor	Member	PhD	patelm@nitj.ac.in
Dr Kunwar Pal	Assistant Professor	Member	PhD	kunwarp@nitj.ac.in

NSS NIT Jalandhar sole aim is to motivate students at NITJ to indulge in nation building activities through various events and projects which are aimed towards the benefit of people. We are providing a platform for interaction between the NITJ students, faculty members, employees and the population living in the villages around NIT Jalandhar campus. The focus areas are developing a harmony with environment, education to the underprivileged section of society, developing appreciation for the beauty of nature and the world itself. We share the belief that such activities are almost always means of great satisfaction and joy. NSS is also taken up by 1st year students as a course under CPA.

NSS Programmes:

The National Service Scheme (NSS) is a Central Sector Scheme of Government of India, Ministry of Youth Affairs & Sports. It provides opportunity to the student to take part in various Government led community service activities & programmes. The primary objective of developing the personality and character of the student youth through voluntary community service. 'Education through Service' is the purpose of the NSS. The motto of NSS is "Not Me but You" Since inception, over 7.4 crore students have benefitted from NSS. The NIT Jalandhar has two units of NSS, each has 100 students.

Aims of NSS Programmes/Activities:

The operational aim of NSS is to integrate the three basic components of the programme. NSS programme should provide a variety of learning experiences which must develop a sense of participation, service and achievement among the volunteers. The activities aim at the following aspects:

- Making education more relevant to the present situation to meet the felt needs of the community and supplement the education of the university/college students by bringing them face to face with the rural situation.
- Providing opportunities to the students to play their role in planning and executing development projects which would not only help in creating durable community assets in rural areas and urban slums but also results in the improvement of quality of life of the economically weaker sections of the community.
- Encouraging students and non – students to work together along with the adults in rural areas.
- Developing qualities of leadership by discovering the latent potential among the campers, both students as well as local youth (Rural and Urban), with a view to involving them more intimately in the development programme and also ensuring proper maintenance of the assets created during the camps.
- Emphasizing dignity of labour and self – help and the need for combining physical work with intellectual pursuits.
- Encouraging youth to participate enthusiastically in the process of national development and promote national integration through corporate living and cooperative action.

While undertaking these activities, each NSS unit should envisage its programmes/activities aimed at instilling discipline, building character, promotion of physical fitness and development of culture.

Vision:

NSS NIT Jalandhar aim is to motivate students to indulge in nation building activities through various events and projects which are aimed towards the benefit of people in and around NIT Jalandhar. We share the belief that such activities are almost always means of great satisfaction and joy.

Purpose:

NSS NIT Jalandhar has a base of many students' volunteer belonging to UG/PG programs of various disciplines. We work on a diverse range of social issues including; blood donation, teaching to underprivileged children, environmental issues, tree plantation, youth parliament, poster completion, voter awareness and awareness of different schemes of Govt. We also collaborate with several NGO's in and around the institute on working on these issues.

Lectures:

In order to increase awareness about several social issues among the student community, we conduct periodic lectures by eminent personalities working in the diverse social areas.

Drives and Workshops:

We conduct several cloth collections drives, cleanliness drives, tree plantation drive, nature walks throughout the year. Besides, workshops on several themes like AIDS awareness, self-defense, Right to Information etc. are also organized.

Achievements

- Our students have participated in National Youth Festival 2024 held at Nashik Maharashtra.
- Our students have participated in 7 days National Integration Camp at Sikar, Rajasthan.
- Our students have participated in National Youth Parliament held at Pune.

Gallery



11.3 National Sports Organization (NSO)

Faculty and Staff

Name of faculty & Staff	Designation	Qualification	E-Mail
Dr G. S. Dhaliwal	Associate Professor & Head	B.A, D.P.Ed, M.P.Ed, N.I.S Diploma (Athletics) & PhD (GNDU)	dhaliwalgs@nitj.ac.in
Dr Vijay Kumar Mishra	Student Activity & Sports Officer	B.P.Ed, M.P.Ed, N.I.S Diploma (Basketball), UGC NET, SLET, PhD	mishravk@nitj.ac.in

The students will be satisfactorily allowed to register in sports activities of the institute for completing their National Sports Organization requirement in the first year.

Sports is an important activity for overall development of the students. It has to be carried out in order to promote spirit of sportsmanship amongst the students and is essentially an activity, which encourages sense of healthy competition, feeling of love and to work in unison. Further, the sports calendar including the sporting games/events promotes enthusiasm in the day-to-day campus life of the students. The Department of Physical Education and Sports is geared to achieve the following motives:

- Healthy mind in a healthy body
- Fit people Fit Nation
- Make-sports a way of life
- Every human being has a fundamental right to access to physical education and sport, which are essential for the full development of his personality. The freedom to develop physical, intellectual and moral powers through physical education and sport must be guaranteed both within the educational system and in other aspects of social life.
By: - The UNESCO
- Health and physical education and sports should be an integral part of the learning process and be included in the evaluation performance.
By: - The National Policy on Education

Sports Achievements

Sports Achievements at Inter - NIT's, IIT's & Universities Level 2023-2024

Sr. No.	Name of Tournament	Game	Date	Position
1	All India Inter – NIT Basketball (Boys & Girls) Tournament held at MNIT Jaipur	Basketball	14-16 Oct, 2023	Participation
2	All India Inter – NIT Badminton (Boys & Girls) Tournament held at MNIT Jaipur	Badminton	14-16 Oct, 2023	Participation
3	Inter Technology University Tennis (Boys) Tournament held at PEC, Chandigarh	Lawn Tennis	20-22 Oct, 2023	Participation
4	Inter Technology University Badminton (Boys) Tournament held at PEC, Chandigarh	Badminton	20-22 Oct, 2023	Bronze Medal
5	Inter Technology University Volleyball (Boys) Tournament held at NIT, Kurukshetra	Volleyball	27-29 Oct, 2023	Gold Medal
6	Inter Technology University Volleyball (Girls) Tournament held at NIT, Kurukshetra	Volleyball	27-29 Oct, 2023	Participation
7	All India Inter – NIT Football (Boys) Tournament held at NIT Durgapur	Football	03-05 Nov, 2023	Participation
8	All India Inter – NIT Cricket (Boys) Tournament held at NIT, Trichy	Cricket	05-08 Jan, 2024	Participation
9	All India Inter – NIT Cricket (Girls) Tournament held at NIT, Raurkela	Cricket	26-28 Jan, 2024	Gold Medal

10	All India Inter – NIT Lawn Tennis (Boys) Tournament held at NIT, Raurkela	Lawn Tennis	26-28 Jan, 2024	Participation
11	All India Inter – NIT Table Tennis (Girls) Tournament held at NIT, Jamshedpur	Table Tennis	02-04 Feb, 2024	Gold Medal
12	All India Inter – NIT Table Tennis (Boys) Tournament held at NIT, Jamshedpur	Table Tennis	02-04 Feb, 2024	Participation

Sports Achievements at Sports Fest – 2023

Sr. No.	Name of Game	Date of Tournament	Year	Position
1	Inter-Year Badminton (Boys and Girls) Tournament	22/08/2023 to 24/08/2023	Second Year Final Year Third Year	Winner Runner-up Third
2	Inter-Year Chess (Boys) Tournament	22/08/2023 to 24/08/2023	Final Year Second Year Third Year	Winner Runner-up Third
3	Inter-Year Table Tennis (Boys) Tournament	22/08/2023 to 24/08/2023	Final Year Second Year Third Year	Winner Runner-up Third
4	Inter-Year Table Tennis (Girls) Tournament	22/08/2023 to 24/08/2023	Second Year Third Year Final Year	Winner Runner-up Third
5	Inter-Year Kabaddi (Boys) Tournament	22/08/2023 to 24/08/2023	Third Year Final Year Second Year	Winner Runner-up Third
6	Inter-Year Carrom (Boys) Tournament	22/08/2023 to 24/08/2023	Second Year Final Year Third Year	Winner Runner-up Third
7	Inter-Year Volleyball (Boys) Tournament	22/08/2023 to 24/08/2023	Final Year Second Year Third Year	Winner Runner-up Third
8	Inter-Year Volleyball (Girls) Tournament	22/08/2023 to 24/08/2023	Second Year Third Year Final Year	Winner Runner-up Third
9	Inter-Year Football (Boys) Tournament	22/08/2023 to 24/08/2023	Third year Second Year Final Year	Winner Runner-up Third
10	Inter-Year Lawn Tennis (Boys) Tournament	26/08/2023 to 28/08/2023	Third Year Second Year Final Year	Winner Runner-up Third
11	Inter-Year Basketball (Boys) Tournament	27/08/2023 to 29/08/2023	Second Year Final Year Third Year	Winner Runner-up Third
12	Inter-Year Basketball (Girls) Tournament	27/08/2023 to 29/08/2023	Final Year Third Year Second Year	Winner Runner-up Third
13	Inter-Year Cricket (Boys) Tournament	22/08/2023 to 28/08/2023	Second Year PhD Final Year	Winner Runner-up Third
14	Inter-Year Cricket (Girls) Tournament	22/08/2023 to 28/08/2023	Mix (3 rd +Final + PhD) 2 nd Year	Winner Runner-up

Facilities:

Outdoor Games Facilities (Boys & Girls)

- 400 mtr Standard Athletics Track & Field
- Standard Cricket Ground.
- Standard Football Ground.
- Two basketball Standard Cemented Courts with full flood lights and sitting arrangement.
- Three Volleyball Standard Grounds with full flood lights and sitting arrangements.
- Two Lawn Tennis Cemented Courts with full flood lights.

Indoor Games Facilities (Boys & Girls)

- **Four Wooden Badminton Courts** with Light, Sitting Arrangements and Specific Gym Equipment in Badminton Indoor Hall
- **Four T.T. Tables** are available in the Table Tennis Room in the New Students Activity Centre.
- **Chess Boxes** are available in the Chess Room in the New Students Activity Centre.
- **Carom Boards** are available Carom Room in the New Students Activity Centre.
- **Yoga & Exercise Mats** are available in the Yoga and Exercise Room in the New Students Activity Centre.

Weight Training Gym Facilities

- Weight training Gym. Is available in the New Student's Welfare Building, fully equipped with Modern Weight Training Equipment. The facilities being used for the development of general and specific motor ability, in which strength, endurance, power, local muscle endurance and coordination are integral parts. These facilities also help in improving specific fitness for professional teams and General Fitness for all the students. Exercise Mats are available in the Yoga and Exercise Room in the New Students Activity Centre.
- Multi Station Outdoor Gym facilities are available in ten different places which can develop different body muscle groups such as shoulder, chest, legs etc.

Research and development

The faculty members of the department are actively engaged in guiding research in different areas of physical education and sports i.e., Sports Psychology, Sports Biomechanics, Sports Training, Test Measurement & Evaluation, Anthropometry, Kin- Anthropometry, Exercise Physiology, All Games/Sports etc.

Upcoming & upgradation game facilities / infrastructure

1. Sports Stadium & Cricket Stadium with Flood Light
2. Synthetic Basketball Courts - Two
3. Synthetic Lawn Tennis Courts – Two
4. Kabaddi Court- Two
5. Climbing rope- Two
6. Kho- Kho Court
7. Handball Ground
8. Parallel Bar- Two
9. Swimming Pools
10. Water Sprinkling System in Play Grounds

Gallery



NITJ Volleyball (Boys) Team Got First Position in ITUSA Volleyball (Girls) Tournament held at NIT, Kurukshetra



NITJ Badminton (Boys) Team got Third Position in ITUSA Badminton (Boys) Tournament held at PEC, Chandigarh



Mr. Harsh Kumar Nayan (2nd Year Textile Deptt.) got Best Bowler Trophy in All India Inter – NIT Cricket (Boys) Tournament held at NIT, Trichy



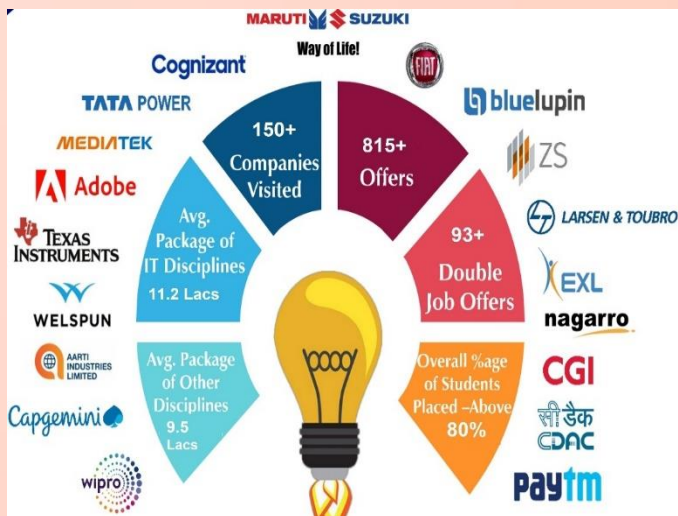
Mr. Alok Ajit Kumar (Final Year Electrical Engg.) got Best Batsman Trophy in All India Inter – NIT Cricket (Boys) Tournament held at NIT, Trichy

Glimpses of Sports Fest 2023



12. PLACEMENT DETAILS

- Maximum Package -INR 62 LPA
- Average Package of IT Companies -INR 11.2 LPA
- Average Package of other Companies -INR 9.5 LPA



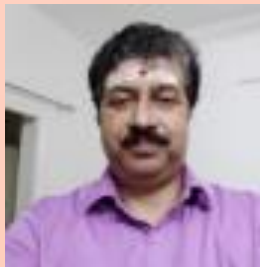
Major recruiters



13. NOTABLE ALUMNI OF THE INSTITUTE

Alumni Success Story

	NITJ has played an outsized role in shaping and moulding the lives of people who call it their alma mater, and I am no exception. It is heartening to see it blossom into an institution of great reputation. Ramanpreet Singh (1995: Chemical & Bio Engineering), Director, Product Marketing Management, AT&T Services, Dallas, US
	At REC, I had built strong relationships, embracing different cultures and mindsets. I developed the skill of assimilating diverse viewpoints, while having a shared vision. I made lasting friendships across all departments, learning so much from each of the relationships. Monica Khurana (1990- Industrial Engineering) CTO, Dodge & Cox, San Francisco, California
	I will always cherish the time, the memories, the learnings, and the relationships I have built at this great institute called NIT Jalandhar formerly known as REC Jalandhar in Punjab India. I made lifelong friends here who have been part of my journey till now. Some of my professors have been my lifelong coaches, mentors & guides. I could not have achieved what I have today without NITJ's contribution in my life. Ashish Bhan (1995 - Electronics & Communication Engineering) Managing Director, Accenture Technology Strategy & Advisory 5G, Network & Telco Cloud
	The lasting memories, friends and knowledge I acquired at NIT Jalandhar (formerly REC), hold immense value in my life. It significantly influenced my journey nurturing invaluable friendships that continue to bring joy. The faculty here played a pivotal role not just as educators but as mentors and pillars of support. The impact of this institution remains fundamental in shaping my achievements and personal growth. Ruchi Sharma (1991 - Electronics and Communication Engineering) Director, Power Regulation, Bhakra Beas Management Board
	NITJ provided me with a wonderful environment and opportunity to learn and grow academically as well as personally. They nurtured my passion for textiles and molded me to be a Leader. My biggest takeaway though would be the relationships I made here throughout my graduation journey; with my faculty as well as my peers. I would like to congratulate NITJ for consistently churning out great set of professionals. All the best for your future endeavors. Narinder Thapa (1995 - Textile Technology) Executive Vice President - Human Protection Business Arvind Advance Materials
	Attending NIT Jalandhar has been a transformative experience for me. Not only has the education I received here been of the highest caliber, but the supportive and collaborative community has pushed me to reach for my goals and strive for excellence. The diversity of perspectives and experiences among my peers has expanded my horizons and allowed me to learn from those around me. I am proud to be a part of this institution and grateful for the opportunities it has provided me. The friendships I have made here will last a lifetime, and NIT Jalandhar will always hold a special place in my heart. Rohit Khanna (1994 - Textile Technology) Managing Director, KISCO India Pvt Ltd, Chandigarh
	Embrace the opportunity to make meaningful memories and experiences at NITJ as those will be with you for a lifetime. Follow your heart, take chances to be the best, and prepare yourselves to become pioneers and designers of change. Your passion, your commitment, and your perseverance will result in a rewarding life ahead. Nalin Chakoo (2006 - Computer Science and Engineering) Director, Amazon Seattle. Former Director, Samsung Research America
	Education opens up so many paths for you, by helping you fully understand your own interests, values, needs and abilities. Having spent my time in NITJ and IIMC, taught me how important it is to have a community that includes friends, teachers, family and everyone who plays a big role in our journey. Academic success is just a part of your overall happiness, and we should all work hard for it, but do listen to your heart and enjoy the rewards that come from doing what really makes you happy. In the world of social media where we end up getting influenced by others, it's extremely important to find the connection to what you are passionate about and persevere towards it. All the best. Minu Kataria (2001- Industrial Engineering) Founder - Light on Life (Startup in the space of health and well-being)

	Jagdeep Chawla, (1990 - Textile Technology) Founder and CEO of eNest Technologies		Anindya Ghose (1992 - Instrumentation & Control Engineering) Heinz Riehl Chair Professor, Nyu's Leonard N. Stern School of Business
	Ajith Mohan Karimpana (1996 - Industrial and Production Engineering) Founder & CEO, House of Kieraya - Furlenco, Prava		Shambhu Kumar (1989 - Textile Technology) CEO at Trident
	Yogesh Mishra (2004 - Computer Science & Engineering) Product Management Director, PayPal, California, USA.		Upasana Taku (1997- Industrial and Production Engineering) Cofounder, MobiKwik; First female Fintech founder award from President of India, Forbes Asia's 25 Power Businesswomen
	Tanmay Mukherji (1996 - Industrial Engineering) Zeta Consulting - Principal Consultant / Zeta Innovation Labs - CEO		Gurpreet Singh (1991- Textile Technology) Vice President, Vardhman Textiles, Ludhiana
	Amarjot Kaur (1991- Chemical & Bio Engineering) Managing Partner - ITPro Consulting, Portland, USA		Rashmi Vij (1990 - Textile Technology) 3M Demand Management Team, Sydney, Australia

14. IMPORTANT POLICIES

14.1 NIT Jalandhar IT Infrastructure Usage Policy

NIT Jalandhar endeavors to provide all faculty, students and staff with a modern, fully networked computing and IT environment for academic use. Users of NITJ computing, networking and IT facilities are expected to abide by the following rules, which are intended to preserve the utility and flexibility of the system, protect the privacy and work of students and faculty, and preserve our right to access the international networks to which the system is connected. In case of complaints, appropriate action to be taken will be decided and taken by the person in-charge of the facility in consultation with the Director, Dean of Planning & Development, Dean of Students Welfare and System Administrator as appropriate.

1. Faculty, staff, and students with authorized accounts may use the computing and IT facilities for academic purposes, official Institute business, and for personal purposes so long as such use

- does not violate any law, Institute policy or IT act of the Government of India.
- does not interfere with the performance of Institute duties or work of an academic nature (as judged by the NIT, Director).
- does not result in commercial gain or private profit other than that allowed by the Institute.

2. Users are expected to respect the privacy of other users and they may not allow any other person to use their password or share their account. It is the users' responsibility to protect their account from unauthorized use by changing passwords periodically and using passwords that are not easily guessed. Sharing of passwords for any purpose whatsoever is strictly prohibited. Users may share the required files through a sharing software with proper ACL (**Access control list**).

3. Any attempt to circumvent system security, guess others' passwords, or in any way gain unauthorized access to local or network resources is forbidden. Users may not use another person's computing account, attempt to forge an account identity, or use a false account or e-mail address.

4. Transferring copyrighted materials to or from the NITJ systems without express consent of the owner is a violation of international law. In addition, use of the internet for commercial gain or profit is not allowed from an educational site. If done so, it will be sole responsibility of the user.

5. Downloading and installing of new software has to be done with the explicit consent of the respective facility in-charges. Installation of unlicensed software on NITJ facilities, or on individual machines connected to the NITJ network, is strictly prohibited.

6. Setting up of any facility requiring password transmission over clear text is prohibited.

7. To the extent possible, users are expected to use only their official email addresses provided by NIT Jalandhar for official communications with other members of the Institute.

8. It is forbidden to use electronic mail and other network communications facilities to harass, offend, or annoy other users of the network, including impeding their computing systems, software, or data. Chain letters are not allowed. Neither is any form of commercial advertising, or soliciting allowed. Spamming is strictly disallowed. Subscribing to mailing lists outside the Institute is an individual's responsibility. Subscribing someone else to any group outside NIT Jalandhar is illegal.

9. It is forbidden to send frivolous or academically unimportant messages to any group. Broadcast of messages to everyone in the system is allowed only for academic purposes and emergencies. Violations of this (as decided by concerned authorities) will result in immediate freezing of user's account for an extended period as determined by the authorities.

10. Shared email accounts for any purpose whatsoever are not allowed. Any special accounts, if need to be set up for conferences and other valid reasons as determined by the institute authorities, must have a single designated user.

11. Recreational downloads and peer to peer connections for recreational purposes are banned.

12. To the extent possible, users are expected to connect only to the official NITJ Wi-Fi network for wireless access. Setting up of unsecured Wi-Fi systems on the NITJ network is prohibited in accordance with a Government of India ban.

13. Users are expected to take proper care of equipment, and are expected to report any malfunction to the staff on duty or to the in-charge of the facility. Users should not attempt to move, repair, reconfigure, modify, or attach external devices to the systems.

14. NO FOOD OR DRINK is permitted in the laboratories. Smoking is strictly prohibited. Also making noise either through games/ music or even talking and/ or singing loudly is prohibited.

15. Playing of Games in Institute laboratories or using Institute facilities is strictly prohibited. Internet chat is also banned.

16. Display of offensive material (either on computer screens or through posters etc.) is strictly disallowed and serious action will be taken against offenders.

17. Violations of policy will be treated as academic misconduct, misdemeanor, or indiscipline as appropriate. Depending upon the nature of the violation, the institute authorities may take an action by issuing a warning through disabling the account. In extreme cases, the account may be completely deleted and/ or the user prohibited access to IT facilities at NITJ, and/ or sent to the Institute disciplinary action committee as constituted by the Institute authorities.

18. The policy may change as and when it is considered appropriate and new policies or the changes in policy will take effect immediately after a brief announcement by any means, e-mail, printed notices, or through the news groups.

14.2 Understanding with Respect to NIT Jalandhar IT Usage Policy

Whom this Document Concerns

All Users of IT infrastructure (Computers and the Network) at NIT, Jalandhar.

Reason for Policy

This policy outlines the responsible use of the Information Technology Infrastructure at NIT, Jalandhar.

Statement of Policy

All users of NIT, Jalandhar will be subject to the following

Acceptable Use Policy

1.[Content] I shall be responsible for all use of this network. In case I own a computer and decide to connect it to NIT, Jalandhar network, I will be responsible for all the content on it, especially that which I make available to other users. (This provision will also apply to any computer or device for which I am responsible, and is included in the meaning of “my computer”.) In case I do not own a computer but am provided some IT resources by NIT, Jalandhar, I will be held responsible for the content stored in the designated workspace allotted to me (examples: file storage area, web pages, stored/archived emails, on Computer Centre or Department machines).

2.[Network] I will be held responsible for all the network traffic generated by “my computer”. I understand that network capacity is a limited, shared resource. I agree that physically tampering with network connections/equipment, sending disruptive signals, or making EXCESSIVE USE of network resources is strictly prohibited. Repeated offenses of this type could result in permanent disconnection of network services. I shall not share the network connection beyond my own use and will not act as a forwarder/masquerader for anyone else.

3. [Academic Use] I understand that the IT infrastructure at NIT, Jalandhar is for academic use and I shall not use it for any commercial purpose or to host data services for other people or groups. Also, I shall not host or broadcast information that might harm others or may be otherwise considered objectionable or illegal as per Indian law.

4. [Identity] I shall not attempt to deceive others about my identity in electronic communications or network traffic. I will also not use NIT, Jalandhar IT resources to threaten, intimidate, or harass others.

5. [Privacy] I will not intrude on privacy of anyone. In particular, I will not try to access computers (hacking), accounts, files, or information belonging to others without their knowledge and explicit consent.

6. [Monitoring] I understand that the IT resources provided to me are subject to monitoring, with cause, as determined through consultation with the NIT, Jalandhar administration, when applicable. The monitoring may include aggregate bandwidth usage to effectively manage limited IT resources as well as monitoring traffic content in response to a legal or law enforcement request to do so. I authorize NIT, Jalandhar administration to perform network vulnerability and port scans on my systems, as needed, for protecting the overall integrity and efficiency of NIT, Jalandhar network.

7. [Viruses] I shall maintain my computer on this network with current virus detection software and current updates of my operating system, and I shall attempt to keep my computer free from viruses, worms, Trojans, and other similar programs.

8. [File Sharing] I shall not use the IT infrastructure to engage in any form of illegal file sharing (examples: copyrighted material, obscene material). In particular, I have noted the following:

Electronic resources such as e-journals, e-books, databases, etc. made available by the Central Library, NIT, Jalandhar are for academic use. These resources can be searched, browsed, and material may be downloaded and printed as single copies of articles as is done in the case of printed library material. Downloading or printing of a complete book or an entire issue or a volume of one or more journals (called systematic downloading) is strictly prohibited. Use of robots, spiders or intelligent agents to access, search and / or systematically download from the e-resources is also prohibited. Any violation of this policy will result in penal action as per the rules and regulations of the Institute. I am aware that Systematic downloading will result in the publisher blocking the entire community of users at NIT, Jalandhar from accessing these resources.

9. [Security] I understand that I will not take any steps that endanger the security of the NIT, Jalandhar network. Specifically, I will not attempt to bypass firewalls and access rules in place. This includes not setting up servers of any kind (examples: web, mail, proxy) that are visible to the world outside the NIT, Jalandhar campus. In critical situations, NIT, Jalandhar authorities reserve the right to disconnect any device or disable any account if it believed that either is involved in compromising the information security of NIT, Jalandhar.

10. [Penalties] I understand that any use of IT infrastructure at NIT, Jalandhar that constitutes a violation of NIT, Jalandhar Regulations could result in administrative or disciplinary procedures.

14.3 Grievance Redressal Mechanisms

The Student's Grievance Cell (SGC) desires to promote and maintain a conducive and unprejudiced educational environment. The Cell enables a student to express feelings by initiating and pursuing the grievance procedure in accordance with the rules and regulations of the Institute. 'Student's Grievance Cell' enquires and analyses the nature and pattern of the grievances in a strictly confidential manner. Emphasis on procedural fairness has been given with a view to "the right to be heard and right to be treated without bias"

Functions of Students Grievance Cell

- To support those students who have been kept deprived of any service (s) by any functional unit of the institute and for which he / she is entitled.
- Putting in efforts for making institute quick, responsive, and accountable for dealing with the students.
- To ensure effective solution to the students' grievances with an impartial and fair approach.
- Redressal of Students' Grievances to solve their academic and administrative problems.
- To co-ordinate between students and Departments / Sections to redress the grievances.
- To guide ways and means to the students to redress their problems.
- To create harmonious educational environment.

Issues not to be entertained by SGC

- Decisions of the Senate / Board of studies and other academic / administrative committees. constituted by the institute.
- Decisions with regard to award of scholarships / fee concessions / awards / medals.
- Decisions made by institute under the Discipline Rules and Misconduct.
- Decisions of the institute in admission.
- Decisions of the competent authority on assessment and examination result.

Students are expected to approach the grievance cell only if they have exhausted all the normal channels such a Warden/Chief Warden/Dean/HOD/Section Head etc. and still feel that their problem is very genuine, and it can be sorted out within the existing rules/framework of the institute. Please keep it in mind that you don't bring unjustified and inappropriate grievances to the grievance cell. Such grievances must be sent through email with a written request accompanied with all the relevant documents/previous communication done with routine channels etc.

S.No	Name of the Coordinator	Department	Domain	Email ID
1	Dr Arvind Bhardwaj Professor (HAG) & Chairman SGC	Industrial and Production Engineering	Overall	studentgrievance@nitj.ac.in
2	Dr Jagwinder Singh Associate Professor	Humanities & Management	Academics related issues	
3	Dr Indu Saini Assistant Professor	Electronics and Communication Engineering	Dispensary, Health, Training and Placement and Other Psychological issues	
			Issue specifically related with Girls Students	
4	Dr K Senthil Assistant Professor	Civil Engineering	Hostels and Day Scholars issues	
5	Dr Urvashi Assistant Professor	Computer Science and Engineering	Sports related issues	

14.4 Anti-ragging Policy

According to UGC guidelines, the definition of ragging states that any conduct whether by words spoken or written or by an act which has the effect of teasing, treating of handling with rudeness any other student, indulging in rowdy or undisciplined activities which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in a fresher or a junior student or asking the student to do any act or perform something which such student will not in the ordinary course and which has the effect of causing or generating a sense of sham or embarrassment so as to adversely affect physique or psyche of a fresher or a junior student.

Important instructions for the students

- According to the Hon'ble Supreme Court of India, Ragging in Educational Institutions is banned.
- Ragging is a Cognizable Offence.
- Students are advised not to indulge in Ragging.
- Ragging entails heavy fines and/or suspension/expulsion.
- Ragging is an undesirable social offence, which is totally banned in the Institute.
- In case the applicant for admission in the institute is found to have indulged in ragging in the past or if it is noticed later that he has indulged in ragging, admission may be refused or he/she shall be expelled from the institution.
- In case of Ragging, please do not keep quiet, report it to the Authorities immediately.
- It is mandatory for the parents to report immediately to the Authorities of the Institute in case their wards inform them about ragging.

Punishable ingredients of ragging

- Abetment to ragging
- Criminal conspiracy to rag
- Unlawful assembly and rioting while ragging
- Public nuisance created during ragging
- Violation of decency and morals through ragging
- Injury to body, causing hurt or grievous hurt
- Wrongful restraint
- Wrongful confinement
- Use of criminal force
- Assault as well as sexual offences or unnatural offences
- Extortion
- Criminal trespass
- Offences against property
- Criminal intimidation
- Attempts to commit any or all of the above-mentioned offences against the victim(s)
- Physical or psychological humiliation
- All other offences following from the definition of "Ragging"

Punishment

Depending upon the nature and gravity of the offence as established by the Anti-Ragging Committee of the institution, the possible punishment for those found guilty of Ragging at the Institution level shaped any one or any combination of the following:

- Suspension from attending classes and academic privileges
- Withholding/ Withdrawing scholarship/ fellowship and other benefits
- Debarring from appearing in any test/ examination or other evaluation process
- Withholding results
- Debarring from representing the institution in any regional, national or international meet, tournament, youth festival etc.
- Suspension expulsion from the hostel
- Rustication from the institution for period ranging from 1 to 4 semesters
- Expulsion from the institution and consequent debarring from admission to any other institution for a specified period
- Fine ranging between Rupees 25,000/- and Rupees 1 Lakh
- Collective punishment: When the persons committing or abetting the crime of ragging are not identified, the institution shall resort to collective punishment
- Fresher who does not report the incidents of ragging either as victims or as witnesses shall also be punished suitably.

As per the directions of the Hon'ble Supreme Court of India, if any incident of ragging comes to the notice of authority, the concerned student shall be given liberty to explain and if his/her explanation is not found satisfactory, the authority would expel him/her from the Institute"

Glimpses of LIFE @ NITJ



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