



CAREER DEVELOPMENT SERVICES 2023-24

NIRF 2023 RANKS IIT JAMMU

67

IN
THE ENGINEERING CATEGORY

“

IIT JAMMU BECOMES ELIGIBLE FOR THE ESTEEMED
NIRF RANKING FOR THE FIRST TIME.”

“IIT JAMMU SOLIDIFIES ITSELF AMONGST THE TOP
TWO 3G IITS.”

TABLE OF CONTENTS

• CAREER DEVELOPMENT SERVICES	4
• MESSAGE FROM DIRECTOR	6
• MESSAGE FROM ASSOCIATE DEAN, CDS	7
• WHY RECRUIT AT IIT JAMMU?	8
• TRENDING AT IIT JAMMU	10
• BATCH DEMOGRAPHICS	12
• COURSES	15
• I2EDC	30
• ALUMNI AFFAIRS COUNCIL	31
• NURTURING TALENTS	32
• TESTIMONIALS FROM ALUMNI	34
• INTERNATIONAL RELATIONS OFFICE	36
• STUDENT EXCHANGE PROGRAMME	37
• FOREIGN LANGUAGES	37
• INTERNATIONAL COLLABORATIONS	37
• PLACEMENT REPORT 2022-23	39
• MAJOR RECRUITERS	40
• PLACEMENT POLICY FOR STUDENTS	42
• PLACEMENT POLICY FOR COMPANY	43
• PLACEMENT PROCEDURE	43
• CDS TEAM	44
• CONTACT INFORMATION	47



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| *Success isn't overnight It's when everyday you get a little
better than the day before. It all adds up*
-Dwayne Johnson

Career Development Services

The Career and Development Services (CDS) at IIT Jammu has been pushing its limits to bridge the gap between academia & industry ever since its inception. It is committed to assisting our students with career planning, career exploration, job search strategies, and on-campus and off-campus full-time employment, internships, research projects, and related opportunities.

CDS helps students explore such opportunities in various industries including but not limited to software development, core engineering domains, finance & consulting, analytics and entrepreneurship. CDS also helps students in guidance & counselling for higher studies, top government profiles including civil services preparation with the assistance of experts from these fields who have undergone similar rigour in their lifetimes.

The CDS oversees various activities to equip the students with communication skills, interview skills, and group dynamics. Experts from diverse fields conduct sessions with the students that guide them regarding the multifaceted job requirements. Students take up summer internships to gain first-hand experience of the professional world after the second or third year of their bachelor's academic

programme and first year of their master's academic programme. The recruiting firms include core engineering firms, research universities, banks, consulting and analytics firms, FMCG majors and NGOs. These internships prepare the candidates for their future.

It aims at building and sustaining relations with companies, universities and social organisations that wish to recruit students from IIT Jammu for internships and research opportunities in various companies and universities worldwide. CDS believes in fostering the experiential and personal growth of each student.



Message from the Director

Warm greetings from IIT Jammu!

The Indian Institute of Technology Jammu was inaugurated on 6th August 2016 with a vision "To create tomorrow's world through technological interventions which are humanistic, creative and futuristic."

We believe self-discovery is the route to personal growth, and our geography helps our stakeholders experience this in the most powerful ways possible. Our proximity to nature & lush green surroundings, nestled among the mesmerizing Shivaliks, instill positivity and liveliness in young minds.

IIT Jammu is the first 3rd generation IIT to have a permanent campus just a year after its inception. Our swiftly advancing lab facilities empower practical skills coupled with a firm hold on theoretical knowledge. Students have laid down their footprints that will stand with us in the years to come and because of this I like to call them the 'Startup Specialists'. Each passing year students are surpassing the placement benchmarks and trying to leave their footprints everywhere. Soon we aim to have footprints across the globe and build a strong 'army of alumni'.

This brochure will help you to understand more about the IIT Jammu family. Please also consider this an invitation to interact with our diverse and talented student community. They look forward to surpassing your expectations of them.

Prof. Manoj Singh Gaur
Director and Professor
Indian Institute of Technology Jammu



Message from the Associate Dean, CDS

Dear Recruiters

With great pleasure, I extend a warm invitation to your esteemed organization to participate in our prestigious Campus Recruitment Programme at IIT Jammu.

IIT Jammu takes immense pride in its well-thought-out and developed core courses, emphasizing a solid foundation in each discipline. Our curriculum is designed to provide students with a comprehensive understanding of their respective fields. Moreover, we offer a wide range of elective courses spanning disciplines, allowing students to broaden their knowledge base and develop a holistic understanding of various domains.

Over the years, IIT Jammu has rapidly evolved into a center of excellence in technical education, consistently meeting the growing demand for technology professionals in India and worldwide. Our students have demonstrated exceptional academic achievements, strong problem-solving skills, and a passion for innovation. In addition to their strong technical skills, our students also have a strong work ethic and a commitment to excellence. They are eager to learn and grow and always look for new challenges. They are also great team players who are passionate about their work. They are well-prepared to make a significant contribution to organizations like yours.

On behalf of the faculty and students, I cordially invite you to participate in our recruiting process and engage with our talented pool of students. We are confident that they will prove to be valuable assets to your organization, bringing fresh perspectives, enthusiasm, and a drive for excellence.

Dr. Ankit Dubey
Associate Dean, Career Development Services



Why Recruit at IIT Jammu?

Leading the Way: Celebrating Our NIRF Ranking Excellence

At IIT Jammu, we are dedicated to providing exceptional education and fostering a culture of innovation and excellence. We are proud to share our outstanding Rank in the prestigious National Institutional Ranking Framework (NIRF). Our institution became eligible for the esteemed NIRF Ranking for the first time and secured an impressive 67th position in the Engineering Category, reaffirming our commitment to excellence in education and research. These rankings reflect our commitment to academic quality, research, infrastructure, and overall student experience. Such recognition further cemented IIT Jammu's standing among the leading 3G IITs, solidifying its position among the top two.

Our NIRF rankings testify to our unwavering dedication to providing a world-class education and nurturing future leaders.

Inter-Disciplinary and Practical Curriculum Approach

Comprehensive Product Development Projects, Institute Incubation and Innovation council, and Tinkerer's Lab promotes interdisciplinary learning and real-world experience in developing innovative products. Through team collaboration, students acquire valuable abilities in problem-solving, creativity, and teamwork, while comprehending the complete process of product development. By establishing partnerships with industries and utilizing case studies, students gain practical knowledge about market trends and optimal approaches. Furthermore, students have the opportunity to delve into their passions by pursuing a minor in another department.

Active participation of students in competitions like coding challenges and hackathons

Our students have demonstrated outstanding participation in prestigious hackathons such as



Smart India Hackathons (SIH), Flipkart Grid 3.0, and Blockchain Hackathon, along with notable events like HackIISC. They have also achieved remarkable success in competitions like TRYST Auto Bot Challenge and various Tech Fests nationwide. Notably, our students achieved exceptional results in SIH 2022, with three out of four teams securing victories. These accomplishments exemplify their exceptional skills, dedication, and expertise in their respective fields.

Startup Ecosystem

Institute Innovation and Entrepreneurship Development Centre (I2EDC) is the idea factory of IIT Jammu with a mission to create and support innovation, pre-incubation, and entrepreneurship. IIT Jammu Tinkerer's Lab's mission is to generate space where budding brains can learn innovative skills, and sculpt their ideas through hands-on practicals, social and cross-cultural collaboration, and ethical leadership.

Top notch faculties

At IIT Jammu, we are privileged to have a faculty comprising accomplished professionals, with 80% of them holding prestigious overseas graduate degrees or postdoctoral experience. Furthermore,

our institution benefits from the regular presence of distinguished visiting faculty from renowned IITs, who generously share their invaluable experiences and knowledge with our aspiring students. This combined wealth of expertise nurtures a global perspective and enriches the learning environment for our young minds.

MoUs and Collaborations

IIT Jammu has signed MOUs with many international universities for fostering academic collaboration, research partnerships, faculty and student exchanges, and resource sharing. This enhances educational opportunities, promotes cross-cultural understanding, and contributes to the advancement of knowledge on a global scale.

Holistic Grooming of Students

Apart from academics, students participate in various activities including Inter-IIT Tech Meet, NSS, and other cultural exercises such as social enlightenment, linguistic competence, physical strengthening and cognitive enhancement. It helps in building skills apart from academics whereas allows students to explore their interest and this ultimately helps them in broadening their perspective in their respective domains.

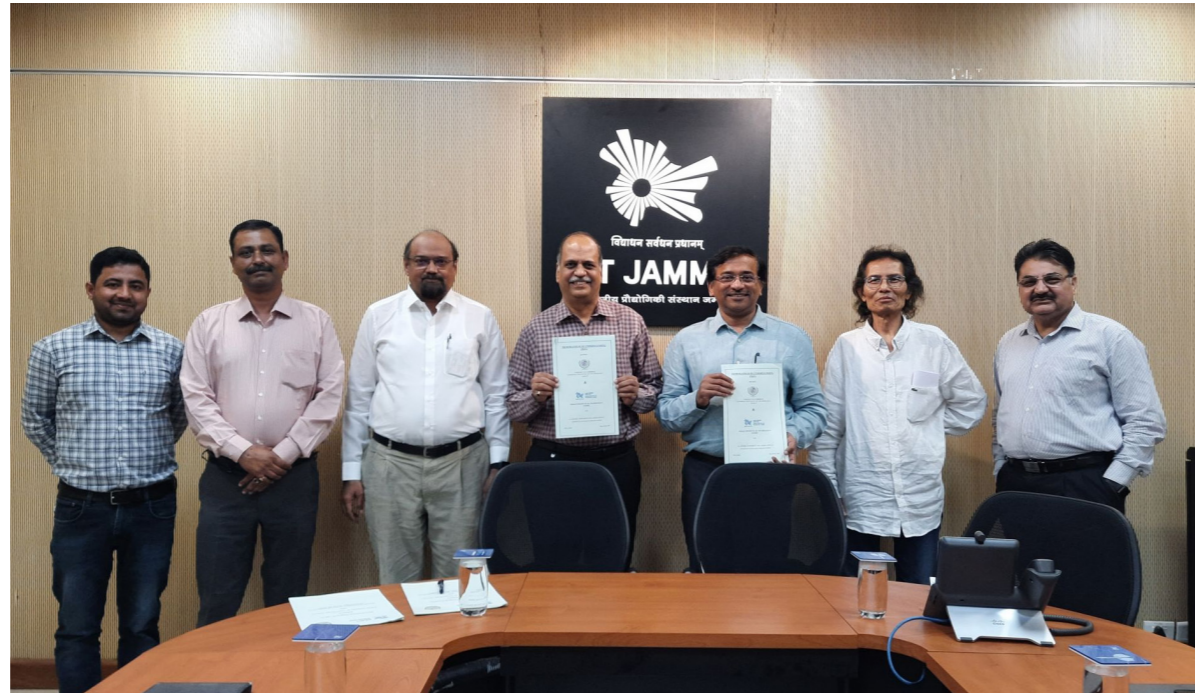
Trending at IIT Jammu

IIT Jammu establishes Sharad Saraf Centre for Ayurved and Indic Studies

The Centre for Essential Skills (CES) at the Indian Institute of Technology Jammu (IIT Jammu), under the aegis of Prof Sharad Saraf, Chairman of the Board of Governors, IIT Jammu, has announced the establishment of the Sharad Saraf Centre for Ayurved and Indic Studies (SSCAIS).



IIT Jammu signs MoU with SVNIT Surat, NIT Goa



IIT Jammu Unveils State-of-the-Art Abrasive Water Jet Machine at Jagti



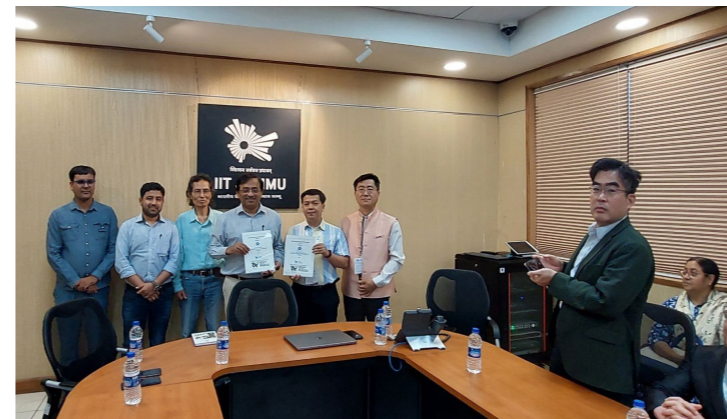
The inauguration ceremony was graced by the esteemed presence of Prof Manoj Singh Gaur, Director of IIT Jammu, Prof Eric Lima, Mechanical Engineering Department, The Cooper Union for the Advancement of Science and Art, New York, USA. The event witnessed the enthusiastic participation of students, staff, and faculty members

The JetCut 15F-15, an exemplary outcome of the Make-in-India initiative, reigns as the star of this newly established facility. With its remarkable capability to fabricate any intricate profile on materials up to 200 mm thickness, the JetCut 16F-31 sets a new standard in precision cutting. This innovative technology not only aligns with the institute's commitment to excellence but also positions IIT Jammu as a pioneering institution at the forefront of industrial advancement.

Indo-Taiwan Bilateral Workshop enhances Cybersecurity capabilities



IIT Jammu and Taiwanese Universities jointly organize Indo Taiwan Workshop on Cybersecurity and AI at IIT Jammu.



IIT Jammu commences ATL Workshop for Sainik School Nagrota, fostering STEM Education

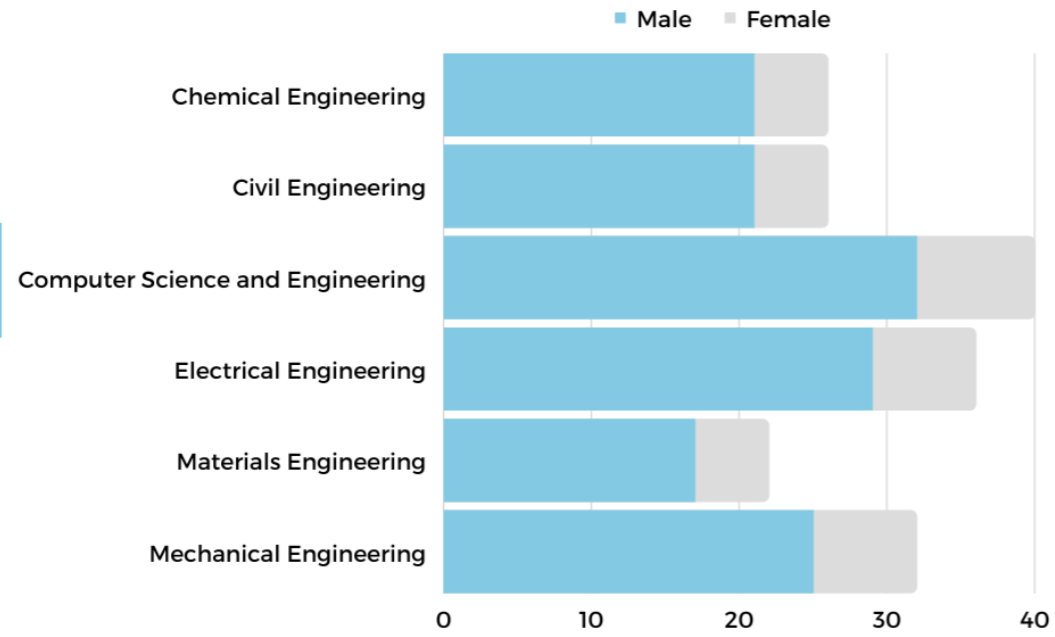


The workshop, taking place on 27th-28th May 2023, aimed to equip school teachers with the necessary skills to operate the Atal Tinkering Lab (ATL) already established at Sainik School Nagrota.

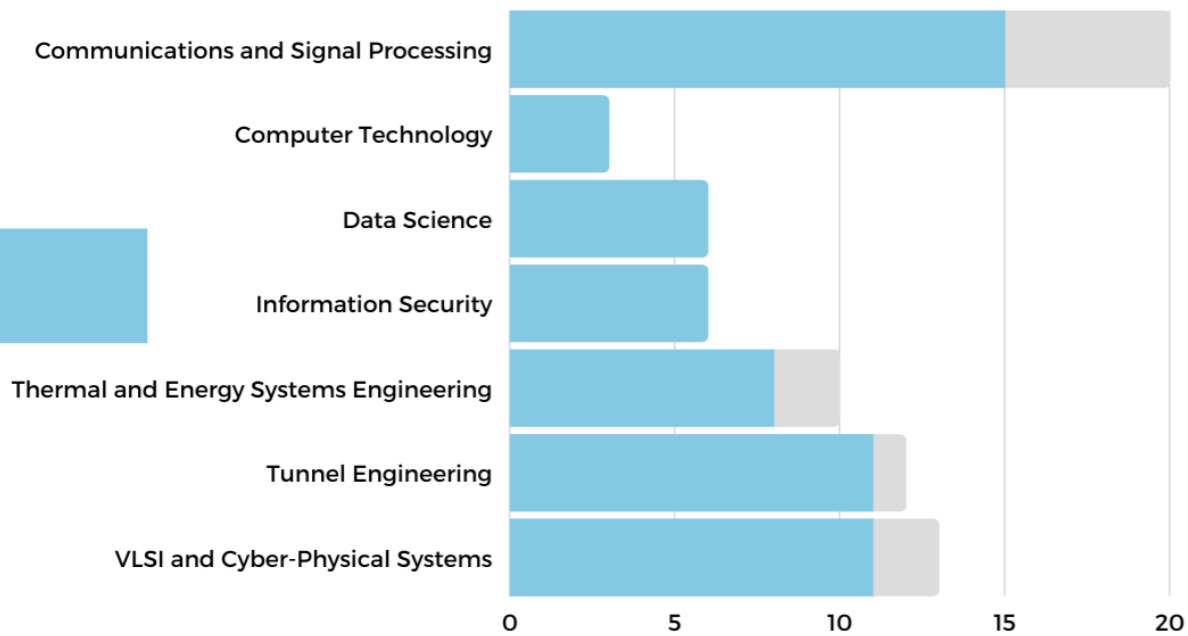
The ATL initiative seeks to nurture curiosity, creativity, and imagination in young minds, fostering skills such as design mindset, computational thinking, adaptive learning, and physical computing.

Batch Demographics

B.Tech



M.Tech



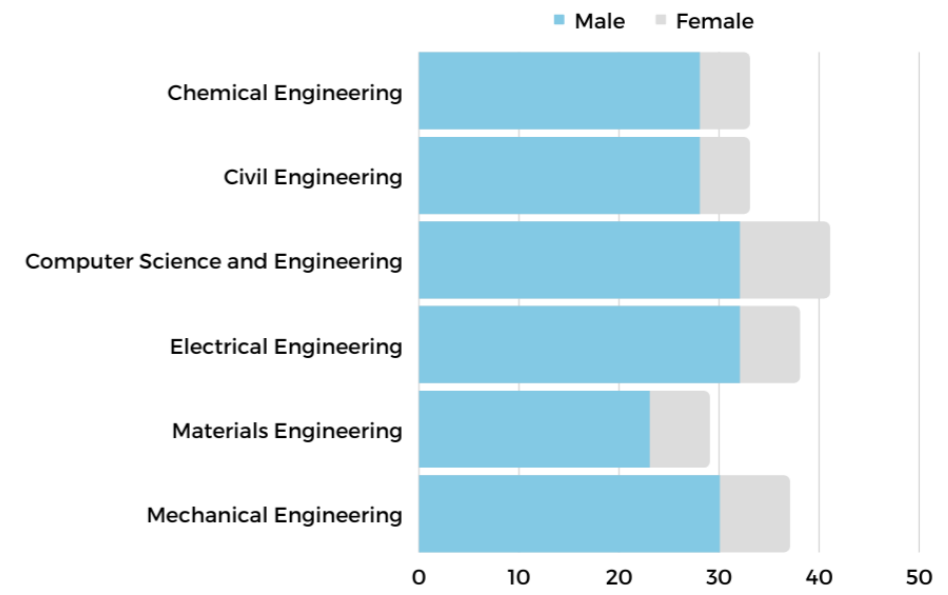
MS(R)



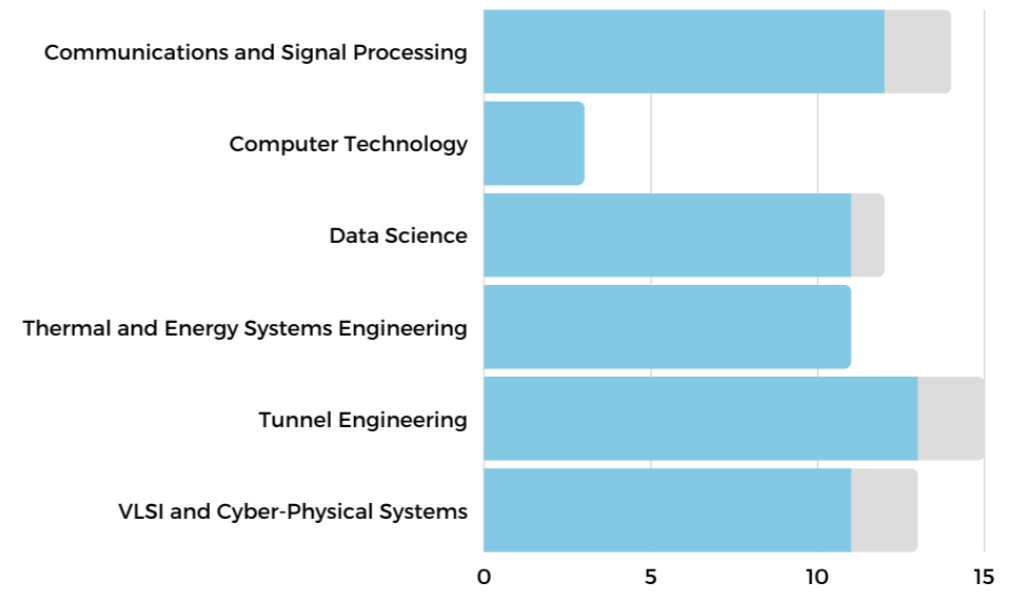
MSc & MS(R)



Graduating Batch 2024



B.Tech



M.Tech

Graduating Batch 2025



Courses

Under Graduate Programmes

- B.Tech. in Chemical Engineering
- B.Tech in Civil Engineering
- B.Tech in Computer Science Engineering
- B.Tech in Electrical Engineering
- B.Tech in Materials Engineering
- B.Tech in Mechanical Engineering
- B.Tech in Mathematics and Computing

Post Graduate Programmes

- M. Tech. in Computer Science & Engineering**
 - Data Science
 - Information Security
 - Computer Technology

- M. Tech. in Chemical Engineering**
 - Sustainable Energy Engineering

- M. Tech. in Civil Engineering**
 - Tunnel Engineering
 - Structural Engineering

- M. Tech. in Electrical Engineering**
 - Communications and Signal Processing
 - VLSI and Cyber-Physical Systems

- M. Tech. in Mechanical Engineering**
 - Thermal and Energy Systems Engineering

MSc Programmes

- Physics
- Chemistry

PhD Programmes

- BioSciences and Bioengineering
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science and Engineering
- Electrical Engineering
- Humanities and Social Sciences
- Materials Engineering
- Mathematics
- Mechanical Engineering
- Physics



Computer Science & Engineering

With a cohesive team of faculty members and a vision to foster teaching, research, and development of technologies in the areas of computing and information technology. The Department of Computer Science and Engineering aims at producing world class Computer Engineers.

The perfect blend of theoretical and practical experiences making the students meet the needs of the ever-changing technology landscape.

Message from the HoD



It gives me immense pleasure to lead the Department of Computer Science Engineering, the most sought programme by the students. I am confident that the students of the department would justify the credibility of the department by showing a high level of professional competence in their respective field. From Artificial Intelligence, Machine Learning to Advanced Operating Systems, Microprocessors, and Supercomputers, students excel in the most latest and advanced skillset. With the learnings from immense knowledge and highly experienced faculty members, our students will flourish and triumph in whatever field they choose. It gives me great pleasure to endorse the department's reputation for producing world-class professionals for the ever-growing IT industry.

Dr Vinit Jakhetiya
HoD

Computer Science & Engineering

Course offerings for B. Tech

- Data Structure and Algorithms
- Discrete Mathematical Structures
- Computer Architecture
- Database Management Systems
- Operating Systems
- Computer Networks
- Machine Learning
- Artificial Intelligence
- Software Engineering
- Computer Vision
- Cloud Computing Technologies

Course offerings for M. Tech

- Design and analysis of algorithms
- Modern Cryptography
- Information Security
- Multimedia security and forensics
- Computer Vision
- Cognitive and Brain Sciences
- Parallel Computing
- Linear Algebra
- Internet of Things (IoT)
- Machine Learning
- Computer Networks

Post-Graduate Specializations

- Information Security
- Data Science
- Computer Technology

Research Areas

- Neuromorphic computing: spiking neural networks
- Application of computer vision in the medical domain
- Underwater object detection, computer vision
- ACM Trans. on Internet Technology
- Deep fake detection and fake news detection

Achievements

A team from IIT Jammu ranked first in **Smart India Hackathon - Hardware Edition**.

A student from CSE branch got a **Global rank of 1127** and **India rank of 194** in **Meta Hacker Cup 2022**.

A student from CSE ranked as **1st Runner up in Sweden -India Mobility Hackathon**.

A team from IIT Jammu became as the **Finalist in Innovate India Coding Challenge**.

A team from IIT Jammu ranked **2nd in Maze Race, IIT Delhi Tech Fest**.

Got **2nd Position in TRYST Auto Bot Challenge** in TRYST IIT Delhi Tech Fest.

Won **Blockchain Hackathon** organized in Rendezvous by IIT Delhi.

IIT Jammu's team ranked **top 5 projects in Plenty Global Hackathon** under the **DeFi** category.



Electrical Engineering

The Electrical Engineering Department is one of the largest departments in the institute in terms of number of faculty members, students enrolled (including UG, PG and Ph.D) and research funding in the form of external funded projects. The department has made rapid strides during the last few years in all spheres of education and research. Our undergraduate program has a flavour of both electrical and electronics domain. IIT Jammu covers not only Electrical Engineering but also Electronics and Communication Engineering and along with Robotics.

Message from the HoD



The Department's focus is to train our students to get strong academic knowledge in the frontier areas of both Electrical and Electronics Engineering and also to make the students ready to face real-world challenges. At present, the department offers a four-year undergraduate programme; B Tech, M.Tech: two years programme with specializations such as Communication and Signal Processing, VLSI and Cyber Physical System and Ph.D programme in core Electrical Engineering specializations. The focus of this curriculum is keeping in view with the current and upcoming industry requirements in future (Industry 5.0).

Dr Kushmanda Saurav
HoD
Electrical Engineering

Course offerings for B. Tech

- Analog Electronics
- Network Theory and Synthesis
- Digital Design and Microcomputers
- Electrical Machines
- Digital Image Processing
- Digital Signal Processing
- Fundamentals of Electrical Drives
- High-Frequency Systems (RF Systems)
- Introduction to VLSI Design
- Wireless Communications & Networks.

Post-Graduate Specializations

1. Communications and Signal Processing:-

- Wireless Communication
- Digital Communication
- Signal Theory
- Estimation & Detection Theory
- Antenna and Wave Propagation
- Cyber Physical System
- Digital Image Processing
- RF system

2. VLSI Design and Cyber Physical System:-

- Advanced VLSI Design
- Advanced Digital System Design
- Solid State Devices
- Embedded System Design
- Cyber Physical Systems
- Test and Verification of SoCs
- Analog and Mixed Signal VLSI-Circuits
- Computer architecture

Research Areas

- Qos-Aware Secrecy Rate, Maximization in untrusted NOMA with Trusted Relay.
- Phase Quantized Near-Field Focusing
- Metasurface for 5.8 GHz Wireless Power Transfer.
- Secrecy outage probability analysis for Downlink untrusted NOMA under practical SIC error.
- Probabilistic approach to model SIC based RACH mechanism for machine type communications in cellular networks.
- Segmentation and Counting of Multiple Myeloma Cells using IEMD based Deep Neural Network
- VLSI Testing and hardware security
- Impact of Temporal Degradations on Radiation-Hardened Security Circuits.
- Reliable circuit designs, Reliability Modelling, Fault-tolerant circuits, IoT security.
- Cryptography and Hardware Security, Semiconductor Device Physics and Technology, Computer Architecture

Achievements

Team - Robosapiens from IIT Jammu, National Runner up in Flipkart Grid 3.0.

A team from IIT Jammu, won bronze in Inter IIT Tech meet.

Winner of Cloud based Analog IC Design Hackathon organized by IIT Hyderabad and Synopsys India.

Hosted 26th International Symposium on VLSI Design and Test (VDAT-2022)

Hosted the inauguration of the third regional chapter of the VLSI Society of India (VSI, Himalayan Region Chapter)



Mechanical Engineering

The Department of Mechanical Engineering offers B.Tech in Mechanical Engineering, M.Tech in Thermal and Energy Systems Engineering and Ph.D in relevant areas. We are in the process of developing state-of-the-art laboratories that not only cater to the undergraduate curriculum but also foster research in various specialized and interdisciplinary areas viz. Energy Conversion, Materials Processing, MEMS, Microfluidic devices, Nano-Mechanics, etc.

Message from the HoD



The vision of the Mechanical Engineering Department is to develop leaders of tomorrow and conduct translational research to address major technological bottle necks. The students are also encouraged to do research work in different specializations starting from the graduation itself, bridging the gap between the research scholars and the undergraduates. The Department is mainly aimed to provide useful knowledge to the students in developing innovative thoughts for future India.

Dr Shiva S
HoD
Mechanical Engineering

Course offerings for B.Tech

- Engineering Thermodynamics
- Mechanics of Solids Engineering
- Fluid Mechanics
- Machine Design Energy System Technology
- Kinematics and Dynamics of Machines
- Heat Transfer
- Manufacturing System Design
- Mechanical Vibration
- Computational Fluid Dynamics and Heat Transfer
- Composite Materials and Design Fracture Mechanics Experimental Stress

Course offerings for M.Tech

- Advanced Heat & Mass Transfer
- Numerical Methods In Engineering
- Advanced Energy & Momentum Transfer
- Non-Conventional Source of Energy
- Computational Fluid Dynamics & Heat Energy
- Nuclear Reactor Thermal Hydraulic & Safety
- Instabilities and Turbulence in Fluid Flows
- Convective Heat Transfer

Post-Graduate Specializations

- Thermal and Energy Systems Engineering

Research Areas

- Empirical Scaling Analysis of Supersonic Jet Control using Steady Fluidic Injection
- Plants and Architecture: the role of biology and biomimetics in materials development for buildings, Intelligent Buildings
- Indentation Creep Response and Rupture Mechanisms in GLARE: Experimental and Statistical Evaluation
- Discus Flowmeter
- Dynamic Fracture Toughness Index: A new integrated methodology for mode-I fracture behavior of polymer composite under impact loading.

Achievements

Out of 829 participating teams in the **Boeing Build Innovation Challenge and Leadership 2.0**, Team SAP Aerospace from IIT Jammu was selected as one of the **top seven national winners** and received a cash prize of 10 lakhs along with the award.

Team Dynamatrix from IIT Jammu, won **first prize in Smart India Hackathon**.

Student team from IIT Jammu secured **11th position** all over India and have flown their drone in the finals of the contest.

The team from IIT Jammu has represented the country in the **finals of the Social EV Design Contest** for International Students 2022 hosted by APEV at Chiba City, Japan.



Civil Engineering

With the undergoing rapid changes in the technological revolution, population growth, and environmental concerns, professional civil engineers are indispensable. The Department of Civil Engineering is committed to making the world shapers by enhancing students with critical thinking, creativity, technical and analytical skills. Empowering our students with a diverse array of software tools such as Plaxis, Midas GTS NX, Atena, Abaqus, LS Dyna, Rocfall, AutoCAD, Staad.Pro, Sketchup, Revit, Matlab, Onshape and more, our institution ensures they are well-prepared to meet both academic and industrial demands.

Message from the HoD



My vision is to develop constructive thinking and analytical capabilities of every student of the Civil Engineering Department. Our department is committed to provide students with a strong, broad-based fundamental engineering education and prepare the students for a career in the industry, and national laboratories. The Department is young with vibrant and energetic faculty members, constantly striving to do their best in teaching and research. The Department now has state-of-the-art laboratories, facilitating UG-PG teaching and research. The B.Tech (Civil Engineering) as well as M.Tech (Tunnel Engineering & Structural Engineering) curriculum is carefully designed to prepare the students for critical thinking and to tackle unorthodox challenges in the field of Civil Engineering. The Department is fully committed to train and transforming the UG and PG students into able professionals who are ready to contribute to nation-building.

Dr Nitin Joshi
HoD
Civil Engineering

Course offerings for B. Tech

- Engineering Mechanics
- Mechanics of Solids
- Environmental Sciences
- Fluid Mechanics
- Surveying Practices
- Structural Analysis
- Design of RC structures
- Transportation and Highway Engineering
- Design of Steel Structures
- Design of Bridge Structures
- Railway Engineering

Course offerings for M. Tech

- Design of Tunnels and Support Systems
- Engineering Geology and Rock Mechanics
- Tunnel Excavation Methods and Philosophies
- Monitoring and Maintenance of Tunnels
- Disaster Management
- Analytical Geomechanics
- Fracture Mechanics
- Finite Element Methods
- Continuum Mechanics
- Contracts and Legal Aspects in Tunnel Engineering

Post-Graduate Specializations

- Tunnel Engineering
- Structural Engineering

Research Areas

- Tunnel Design and Structural Analysis
- Aerodynamics and Transportation
- Tunneling and Geotechnical Effects
- Numerical Modeling and Simulation
- Environmental Impact and Socio-Technological Aspects
- Concrete and Materials Engineering
- Risk Management and Safety

Achievements

- Team from IIT Jammu, ranked first in Traffic Hackathon-2022 by solving Freight Traffic Management on National Highway (Jammu to Kashmir)
- Team IIT Jammu became 1st Runner Up in the Civil Conclave, "Fortifying Future-22".
- A student has been awarded the prestigious Master Research Award for Geotechnical Research Practices (iGrip).

B.Tech Curriculum

There are many hands-on projects and lab practicals that cemented the urge to cater to the theoretical part of the course. Our students here work in diverse areas, some are doing research works under civil professors in which they are specializing in with some M.Tech and Ph.D fellow mates.

M.Tech in Tunnel Engineering

Curriculum is designed with a varied array of courses at both basic and advanced levels so that the student gains sufficient knowledge at all levels. The curriculum is designed such that it includes Tunnel Engineering, Structural Engineering, Geotechnical Engineering, and Transportation Engineering. Large number of tunnel projects in the Jammu & Kashmir region provides exposure to the students about the methodology used in order to overcome such difficult terrain.



Chemical Engineering

The Chemical Engineering Department at IIT Jammu is known for its academic excellence and research contributions. With experienced faculty, state-of-the-art facilities, and well-equipped laboratories, the department offers a comprehensive curriculum covering core subjects like mass transfer, heat transfer, and thermodynamics. It emphasizes industrial exposure and internships, facilitating students' transition to the industry. The department's strong ties with leading industrial organizations provide practical insights, training, and job placements. It equips students with the necessary skills and knowledge to excel in chemical engineering and contribute to industry growth.

Message from the HoD



As the Head of the Chemical Engineering department at IIT Jammu, I extend a warm welcome to all the potential recruiters. Our department is committed to providing a world-class education that combines theoretical knowledge with practical skills. We aim to cultivate a passion for chemical engineering and nurture future leaders in the field. Our experienced faculty and state-of-the-art facilities ensure a stimulating learning environment. The department is also striving to better heights by bringing faculty from various fields together. Different thrust areas of research ranging from Energy and Environment to Biomedical Devices, Biochemical Engineering to Catalysis and Reactor Engineering, Modelling and Simulation to Drug Design and Delivery.

Dr Yogesh Madhukarrao Nimdeo
HoD
Chemical Engineering

Course offerings for B. Tech

- Chemical and Process Engineering Calculations
- Chemical Engineering Thermodynamics
- Mass Transfer
- Chemical Reaction Engineering
- Chemical Process Technology
- Industrial Separations and Reactors
- Industrial and Cost Engineering
- Biological Thermodynamics and Bioseparations
- Polymer Solution Thermodynamics and Flow
- Polymer Process Engineering

Post-Graduate Specializations

- Sustainable Energy Engineering

Research Areas

- Energy Storage Devices
- Electrocatalysis
- Biomolecules Detection, Diagnosis & Treatment in Microfluid Confinement
- Enzymatic Biosensors
- API Extraction and Drug Delivery Systems

Achievements

A team from IIT Jammu, ranked 3rd in the **Mudrex Trading Bot Problem** of Inter-IIT technical fest organised by IIT Kharagpur.

A team from IIT Jammu, ranked 3rd in **Meshmerize competition** in Bhopal zonals of IIT Bombay techfest.



Materials Engineering

The department offers B.Tech. and Ph.D. in relevant areas. The vision of the department is to develop leaders of tomorrow and conduct translational research to address major technological bottlenecks. We are in the process of developing state-of-the-art laboratories that not only cater to the undergraduate curriculum but also foster research in various specialized and interdisciplinary areas.

Message from the HoD



Materials are ubiquitous, thus playing a cardinal role in enabling most engineering applications. Materials are the backbone of our civilization, and strengthening the backbone is an ardent duty of every engineer. Our department takes pride in producing highly skilled and innovative materials engineers who are equipped to address the evolving needs of the industry. Our rigorous curriculum, state-of-the-art facilities, and interdisciplinary research opportunities ensure that our students possess both theoretical knowledge and practical expertise. I invite you to explore the potential of our talented pool of students for internships, placements, and collaborative projects. Together, let's shape the future of Materials Engineering.

Dr Shantanu V Madge
HoD
Materials Engineering

Course offerings for B. Tech

- Thermodynamics of Materials
- Characterisation of Materials
- Phase Transformation in Materials
- Fundamentals of Metal Extraction
- Mechanical Behavior of Materials
- Engineering Fundamentals of polymers
- Engineering Ceramic
- Industrial Materials Processing
- Transport Phenomena in Materials Engineering
- Integrated Computational Materials Engineering

Research Areas

- Optical Smart Materials
- Surface Engineering in Extreme Environments
- Metal-hydride Systems for Hydrogen Storage and Delivery
- Nanomaterials
- Pyrometallurgical Processing

Achievements

Out of 829 participating teams in the Boeing Build Innovation Challenge and Leadership 2.0, Team SAP Aerospace from IIT Jammu was selected as one of the top seven national winners and received a cash prize of 10 lakhs along with the award.

Team Dynamatrix from IIT Jammu, won **first prize in Smart India Hackathon**.

A team from IIT Jammu, ranked **3rd in Meshmerize competition** in Bhopal zonals of IIT Bombay techfest.



Department of Physics

The Department of Physics initiated its activities along with the establishment of IIT Jammu in 2016. The role of the Department is to train undergraduate and postgraduate students and carry out cutting-edge research in different frontiers of Physics. Currently, the Department offers courses for the Institute's four-year bachelor program and a Ph.D. program. We are starting an Integrated Ph.D & MS Research program with different focus streams by the academic year 2021-22. Soon the department will start undergraduate and postgraduate programs in basic and applied domains of Physics.

Message from the HoD



The vision of the department is to be a dynamic, inclusive, and competitive Centre of Excellence in Teaching, Learning, and Research. The department has well qualified, experienced, and highly motivated faculty members who impart the basic concepts of Physics which are very much essential for understanding the Engineering subjects. The faculty members of the department are involved in consultancy activities along with research in Nuclear Physics, Theoretical Physics, and Material Science.

Rahul R Salunkhe
HoD
Department of Physics



Department of Chemistry

The Chemistry Department serves the purpose of imparting knowledge in the core science subject, which is a foundational building block for most engineering disciplines. As such, high tech labs with the latest technological equipments greet students and faculty members of the institute who are looking to strengthen their strong base in the subject. A team of extremely capable faculties and staff members keep the department running at full throttle.

Message from the HoD



Our Department offers a rich variety of opportunities and resources. Our programme offers students the opportunity to work alongside our esteemed faculty on cutting-edge problems in their field of study. The knowledge and skills gained through the programme will greatly benefit the professional development of each student.

Subhas Samanta
HoD
Department of Chemistry



Institute Innovation & Entrepreneurship Development Centre

The Institute Innovation and Entrepreneurship Development Centre (I2EDC) has been set up at IIT Jammu to facilitate development of an entrepreneurial ecosystem in the organization with specific objectives and associated performance indicators.

I2EDC will act as a platform that will be available to all the faculty members, students as well as the staff members of the institute with an aim to give wings to entrepreneurial endeavours. At I2EDC, innovative products and processes will always be at the forefront backed by powerful insights and entrepreneurial spirit.

No innovative idea by the IIT Jammu fraternity, should remain unexplored for want of resources, be it technical or financial. It shall do so by creating an enabling infrastructure in the institute to be available to all of its members.

The Tinkering Lab at IIT Jammu aims to create workspaces where young minds can learn innovation skills, sculpt their ideas through hands-on activities, socialize and collaborate cross-culturally, and be ethical leaders. Creative thinkers get a place to transform their imagination into reality and students will learn to build models and enhance product development skills. Thus the ability to make products indigenously would enhance and thus promote Atma Nirbhar Bharat and build innovative solutions to India's unique problems. All in all, we aim to create an Ecosystem that nurtures Futuristic skills like complex problem solving, creative thinking, Entrepreneurial skills, adaptive thinking, and computational skills.



Alumni Affairs Council

The Alumni Affairs Council (AAC) at IIT Jammu aims at promoting the welfare of the Institute's alumni and establishing strong relationships with them through various engagements.

It organizes webinars and talks to inspire alumni in achieving their goals. The council provides support for higher studies, placements, and startups, both technically and non-technically. It encourages alumni to contribute to the institute's progress and collaborates with other alumni associations for mutual benefits. Encouraging alumni to contribute to the progress of the institute, the council fosters partnerships with other alumni associations to benefit the IIT Jammu community.

The council actively engages professionals from Jammu and Kashmir and raises funds for improved facilities. Moreover, the council collaborates with alumni to generate funds for better residential, educational, and recreational facilities. It also supports nonprofit organizations dedicated to India's development and provides assistance to students through grants, scholarships, and academic guidance.

The council serves as a valuable interface for students to connect with alumni for technical and non-technical support.

Nurturing Talents

Indian Institute of Technology Jammu, renowned for its commitment to academic excellence, also places great emphasis on nurturing talents beyond the classroom. The institute recognizes the importance of holistic development and offers a diverse range of clubs and organizations to foster the talents and interests of its students.

By offering such a wide range of clubs and organizations, IIT Jammu ensures that its students have ample opportunities to pursue their passions and develop skills beyond their academic curriculum. These clubs not only contribute to the holistic growth of students but also create a vibrant campus environment that encourages creativity, teamwork, and personal development.



Beat Street - Dance Club



Dramatizers - Drama Club



Kritash-Social Club



NAC -Nature Club



Coding Club



Robosapiens -Robotics Club



IEEE Chapter



Abhivyakt-Literary Club



Artihc -Arts Club



SAE Club



Malang - Music Club

Testimonials from Alumni



Prabhat Sharma (Class of 2020)

CDS at IIT Jammu has been instrumental in helping me achieve my career goals. The placement process was a rigorous one, but thanks to the guidance and support of CDS, I was able to land an amazing job opportunity that aligns perfectly with my interests and skillset. The team at CDS was always there for me, from providing personalized career advice and helping me hone my interview skills to connecting me with top companies and organizations.

Thanks to CDS, I have now secured a position that I could only dream of before coming to IIT Jammu. The experience and knowledge that I gained during my time at this esteemed institution, combined with the support of CDS, have set me up for a successful and fulfilling career ahead.



Neha Sharma (Class of 2019)

I have observed our abilities and expertise reaching new heights at IIT Jammu, thanks to the cutting-edge facilities and knowledgeable, experienced, and supportive faculty.

When it comes to providing students with industry exposure or placements & internships the Career Development Services of our institute play an integral part. I would attribute my success in getting placed in Paytm to the unending support from the CDS team.



Nishita Philip (Class of 2019)

As a member of the Career Development Services at my institute, I had the pleasure of working alongside some of the most dedicated and knowledgeable professionals I have ever encountered. The team's commitment to supporting students in their career journeys was exceptional. On a personal level, the interpersonal skills I have learned working at CDS IIT Jammu have undoubtedly helped me get the opportunity to pursue my master's at UC Berkeley, my dream college. I am thankful for all the opportunities that CDS family has provided.



Nishta Gupta (Class of 2019)

Seasoned, seamless and supportive. This is how I would describe CDS IIT Jammu, an exceptional platform for students looking to explore a variety of career paths & opportunities. The superior mentorship one needs to either land the most coveted job or university, the centre offers it all. Their expertise, personalized guidance, and caring approach played an instrumental role in helping me get admitted to London Business School and pursue my dreams.



Bharati Padhy (Class of 2020)

As an alumnus of IIT Jammu, I can say with confidence that this institution has grown exponentially when it comes to career development and placement opportunities. The Career Development Services at IIT Jammu is a dedicated and proactive team that is committed to helping students achieve their career goals. One of the things I appreciate most about the career development services at IIT Jammu is the personalized approach they take to gather the opportunities for students. In addition to career opportunities, the CDS also offers a range of other valuable resources to help students prepare for the job market. Thanks to the support of the CDS at IIT Jammu, I was able to achieve my dream.



Kunal Bhangare (Class of 2020)

The Career Development Services at our institution has been a game-changer for our students, and I attribute much of its success to the exceptional efforts of the team behind it. Led by a team of dedicated professionals, the Career Development Services has been instrumental in equipping students with the skills and knowledge they need to thrive in the professional world. The team's relentless efforts in establishing and maintaining strong relationships with recruiters and employers have resulted in numerous placement opportunities for our students. I am immensely grateful to the Career Development Services team for their unwavering dedication and exceptional efforts in empowering our students to achieve their career goals.



Rajat Mittal (Class of 2020)

As a former representative of the CDS, I witnessed firsthand the tremendous impact this section has on students' career journeys. The personalized approach taken by the CDS team in gathering opportunities for students sets them apart. Alongside career opportunities, the CDS provides valuable resources such as workshops, training sessions, job listings, and internships, equipping students with essential skills for the job market.



Muskan Garg (Class of 2019)

I am incredibly thankful for the invaluable support and opportunities IIT Jammu has provided me. IIT Jammu's emphasis on practical knowledge has helped me to build an industry-ready profile. The dedicated placement cell has been of great help in shaping my professional career, offering career counseling, and resume workshops that have refined my skills and boosted my confidence. Thanks to IIT Jammu's comprehensive education and robust placement support, I bagged an incredible job offer that aligns perfectly with my career goals.



International Relations



IIT Jammu is a renowned technology university in India that excels in providing transformative education and nurturing the development of innovators and leaders on a global scale.

The university has established collaborative research partnerships in over 18 countries, facilitating visits by distinguished speakers from around the world. With more than 12 Memorandums of Understanding (MoUs) signed with esteemed global universities such as Rochester Institute of Technology (RIT), Norwegian University of Science and Technology (NTNU), University of London (CITY), and The University of Tokyo, IIT Jammu aims to expand this network to 30 by 2023, fostering active teaching, research-based collaborations, and student/faculty exchange programs.

IIT Jammu offers a range of study programs tailored for international students, including initiatives like Study in India (SII), Indian Council for Cultural Relations (ICCR), and ASEAN-INDIA.

Foreign Languages

1. GERMAN: WILLKOMMEN BEI IIT JAMMU
2. FRENCH: BIENVENUE A IIT JAMMU
3. JAPANESE: IIT ジャムムへようこそ
4. MANDARIN CHINESE: HUANYING LAI DAO IIT CHA MO

International Recruiters





MANAS GUPTA
CEO & Co-founder
@ GobbleCube



KHALID KHAN
VP, Federation of Indian Export
Organisations



KUNAL CHAWLA
Director, Decision
Analytics, EXL



SHANTONU BHADURY
Director - Design Engineering @
Silicon Labs



विद्यया च सर्वधनं प्रधानम्
IIT JAMMU



TUSHAR BHATTACHARYYA
Co-founder and
Director of ABCRL



AMIT GURKHA
Director Software
, Cisco Systems



RAMESH KOLLEPARA
CTO Global IT at Kellogg's.



ASHEESH SHARMA
Google Cloud - Delivery Unit Lead
at Persistent Systems

Placement Report 2022-23



B.Tech



M.Tech



Major Recruiters



Placement Policy for Students

As per the placement policy of IIT Jammu, Candidate is allowed to take only one offer in case of International Job opportunity irrespective of package and Job location.

OR

A candidate can grab a maximum of 2 Indian job offers based on the CTC per annum or Job role offered by the company as per the following criteria;

- **Companies offering package upto 15 LPA:** Candidate is allowed to secure only one job offer if the CTC is less than equal to 15 lakhs per annum.
- **Companies offering package between 15.1 LPA to 25 LPA:** The Candidate with no offer or offer less than equals to 15 LPA are eligible to apply and secure 1 job under the bracket.

- **Companies offering 25 Lakhs per annum and above (Dream Slot):**

1. Candidate can grab maximum of 2 offers if they have no offer earlier.
2. In case the candidate has one offer from any of the above two categories, candidate can take one offer under Dream Slot category.
3. In case the candidate has already one offer in this slot, the candidate can apply to only those companies offering the 5 LPA CTC more than his/her previous offer.

- **Companies offering the core job role:** If a student is already having one offer (for a non-core profile) he/she can apply for the second opportunity irrespective of the CTC being offered by the company for the core job profile. Core Job Profile refers to the job profile aligned with the student's department curriculum.

Placement Policy for Companies

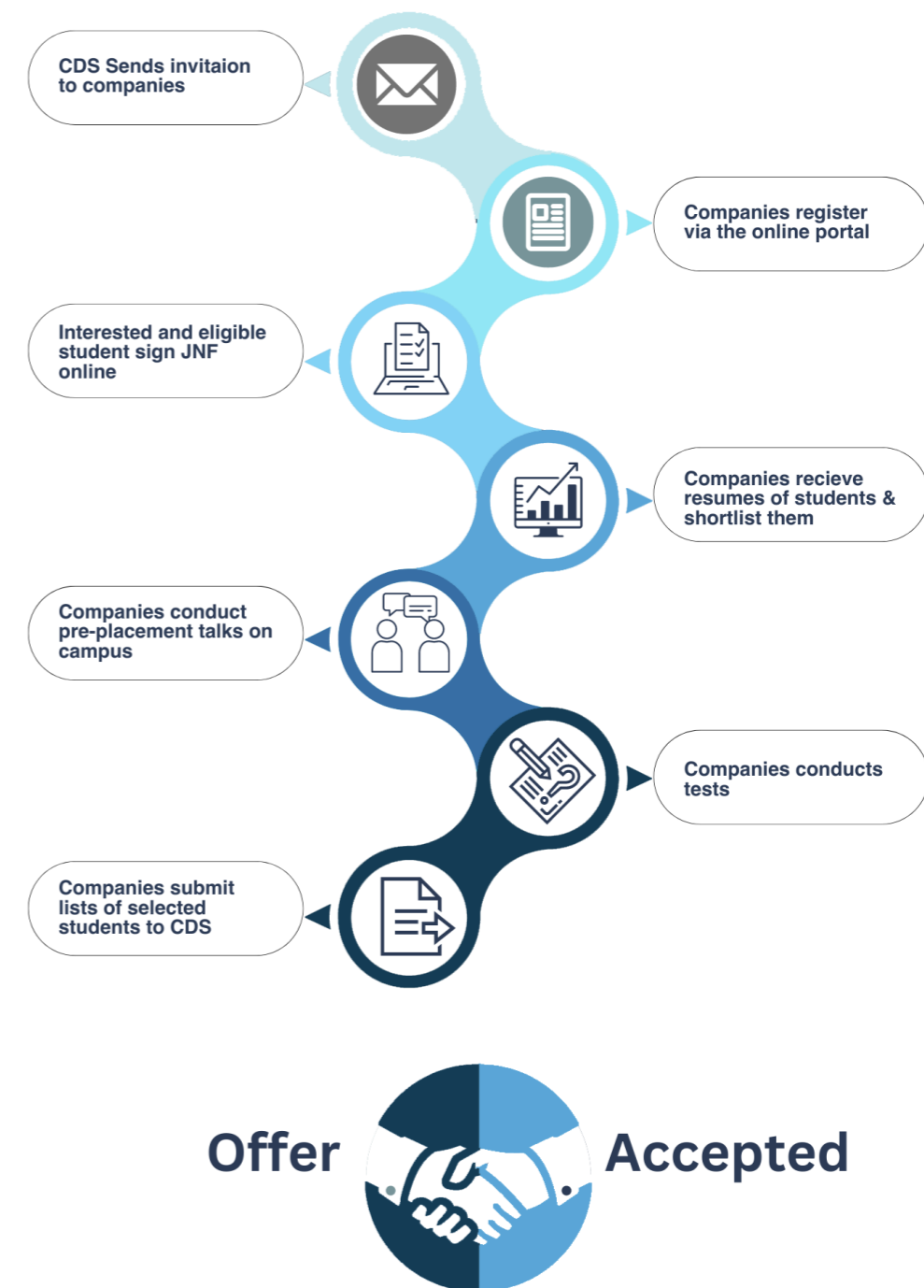
1. Companies can register themselves for conducting the campus placements with an intent to hire by filling a soft copy of the Job Notification Form (JNF) online. <https://eservices.iitjammu.ac.in/#/recruiterLogin> or the word document.
2. Companies are required to fill all the fields in the Job Notification Form including job description/role, details, compensation details, selection process, eligibility criteria, etc.
3. Detailed list of candidates will be shared with the organization 2 days prior to the recruitment process.
4. The dates for campus interviews are allotted on the basis of information provided in the JNF. The recruiting organisation would confirm or seek a change of the dates with the CDS Office. The recruiting organisation may visit the campus on a mutually agreed date to conduct Aptitude Test/Technical test/ Personal Interviews/Group Discussion as part of their preferred selection procedure.
5. No company is allowed to contact any student individually before the date of final interviews.
6. Companies are expected to furnish the final list of selected students on the same day as soon as possible after the completion of the selection procedure. Further, companies are requested to provide a waitlist (in order of priority) in addition to the selection list. This would be used in case a selected student gets multiple offers.
7. In case a company does not give its final selection list on the same day it conducts the drive, then the students will be allowed to appear in other companies visiting on subsequent days till they finally get selected. However, if a student has already been selected by a company that came on the subsequent day & the company that deferred its decision also makes an offer to him/her later on, then:
 - a. The result of the company that deferred the result will be considered as the result of the day on which the result is received.
 - b. In case more than one result of selected student(s) comes on the same day, then the

student will be given an option to choose between the company of the previous day and the company of the day. Student's preference shall be shared with both the companies.

8. Company needs to complete the entire hiring process with in 1 week from the date of start of the process. In case of any delays, the company will be banned for the same placement year.

9. Companies offering Internship plus placement offer to the candidates should define the proper working hours (should not be more than 6 hours a day) who are working as an Intern. Defined work to the interns should be realistic as they will also be doing their final projects and coursework with the institute along with the Internship in their final semester.

Placement Procedure



The Team

Credits -Mr. Mohan Rao

Faculty



Dr. Ankit Dubey
Associate Dean- CDS



Dr. Vinit Jakhetiya
Computer Science Engineering



Dr. Archana Rajput
Electrical Engineering



Dr. Pothukuchi Harish
Mechanical Engineering



Dr. Rajendra Verma
Civil Engineering



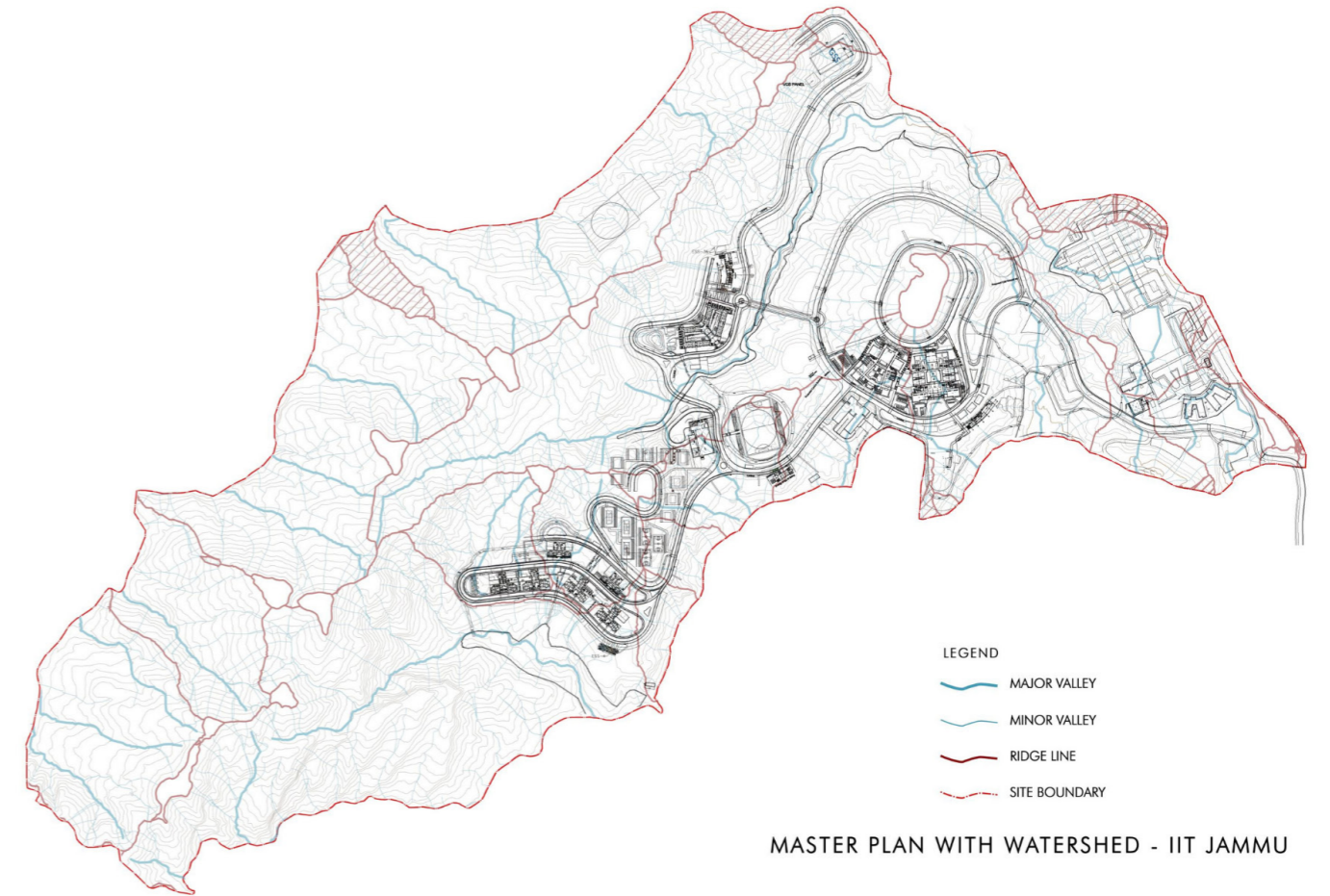
Dr. Ravi Arun
Chemical Engineering



Dr. Ashutosh
Chemical Engineering



Dr. Devi Lal
Materials Engineering



Staff



Ms. Ridham Gupta



Ms. Richa Sharma

Student



Amit Shaw
Student Head Representative



Dakshi Goel
Student Head Representative

Brochure Credits



Manoj Katta



Satyansh Sharma



Sunny Kumar




Yash Bhajbhujje

Student Team



REACH US

Ms. Ridham Gupta | Ms. Richa Sharma
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 placements@iitjammu.ac.in

 <https://www.iitjammu.ac.in/cds>

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Jammu - 181221, J&K, India



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