



**DR B R AMBEDKAR NATIONAL
INSTITUTE OF TECHNOLOGY
JALANDHAR**

PLACEMENT BROCHURE

20²⁴₂₅

**DEPARTMENT OF
COMPUTER SCIENCE
& ENGINEERING**



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ABOUT NITJ

Since its establishment in 1987, NIT Jalandhar has risen to become one of India's premier engineering institutions. Designated as a National Institute of Technology in 2002 and an Institute of National Importance in 2007, NIT Jalandhar continues to set benchmarks in education, research, and innovation. NIT Jalandhar is committed to providing high-quality education in Engineering, Technology, and Sciences, aiming to produce skilled technical and scientific professionals for the nation.

5000+
Students

500+
Faculty & Staff

18
Departments

20+
Clubs & Cells

**#NUMBERS
THAT MAKES NITJ**

ACADEMIC INNOVATION

Offering a wide range of programs, including B.Tech in 14 disciplines, M.Tech in 20 specializations, MBA, M.Sc, and Ph.D. programs, NIT Jalandhar ensures a comprehensive and dynamic learning environment. Our new additions, such as B.Tech in Electronics and VLSI Engineering, Data Science, and Mathematics and Computing, along with cutting-edge M.Tech specializations, reflect our commitment to staying ahead in the tech landscape.

RESEARCH EXCELLENCE

With over 6500 international publications and numerous patents filed, our faculty and students are at the forefront of research and innovation. Our Technology Business Incubator (TBI) and Space Technology Incubation Centre (STIC) nurture startups and entrepreneurial ventures, fostering a culture of innovation.

GLOBAL COLLABORATIONS

Our collaborations with international institutions and leading industries enhance our global presence and research capabilities. Notable MoUs are with University of Saskatchewan, Canada; Arba Minch University, Ethiopia; University of Florence, Italy; Bureau of Indian Standards (BIS); and various NITs, IITs, and IIMs.

COMMITMENT TO SOCIETAL WELFARE

NITJ has been actively contributing to societal welfare through a range of impactful initiatives aimed at uplifting underprivileged communities. Impactful initiatives include implementation of PMKVY 4.0 for skill development and employment, Vigyan Jyoti program, inspiring young women from underrepresented groups to pursue careers in STEM fields.





DR B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY JALANDHAR RANKINGS - 2023

46

NIRF RANKING
Engineering

72

NIRF RANKING
Overall

Top
50

ARIIA Ranking

351-400

Times Higher Education
Asia University Rankings

1001-1200

Times Higher Education
Asia University Rankings



DIRECTOR'S MESSAGE

PROF. BINOD KUMAR KANAUIA



To develop a brand's identity, you need passion, unwavering commitment, and never-ending work. At NIT Jalandhar, creativity has flourished since the institution's foundation, producing people with a wide range of skills. We embrace innovation, all-encompassing education, and multidisciplinary research as a critical institution to prepare students as agents of societal change. Their talent is evident in the amazing accomplishments of our alumni around the world. Our kids define greatness as their defining quality as they set standards, exhibit resiliency, and encourage progress. We anticipate a profitable future that will be enhanced by their continued success and willingness to work with recruiters. Continuing with that, I wish them a successful future and well-being. Cheers to a prosperous collaboration!



HOD'S MESSAGE

DR. RAJNEESH RANI

Enter our prestigious institution's thriving Computer Science and Engineering discipline. Our demanding curriculum, cutting-edge research, and industry partnerships enable students to succeed in the tech industry. Innovation and skill development are the driving forces behind our dedication to developing future IT leaders. Join us in our quest for success in the transforming technology world.

ADMISSION PROCEDURE

The admission process for various programmes at NITJ ensures that only the very best of the students make it to the campus. Our institution admits students through following highly competitive examinations.

- Undergraduate admissions are based on the Joint Entrance Examination (JEE) Mains, taken by over 10 lakh candidates nationwide
- For M.Tech programs, admission is through the Graduate Aptitude Test in Engineering (GATE)
- International students join us through DASA, ICCR scholarships, and the Study in India initiative, promoting a diverse and global academic community.



PROGRAM OVERVIEW

B.Tech. (Computer Science and Engineering)

A broad-based program that covers the fundamentals of computer science, including programming, algorithms, data structures, operating systems, and software engineering. This program provides a strong foundation for the theoretical underpinnings of computer science, and prepares students for a variety of careers in software development, IT, and other technical fields.

VISION

To build a rich intellectual potential embedded with interdisciplinary knowledge, human values and professional ethics among the youth, aspirant of becoming engineers and technologists, so that they contribute to society and create a niche for a successful career.

MISSION

To become a leading and unique institution of higher learning, offering state-of-the-art education, research and training in engineering and technology to students who are able and eager to become change agents for the industrial and economic progress of the nation. To nurture and sustain an academic ambience conducive to the development and growth of committed professionals for sustainable development of the nation and to accomplish its integration into the global economy. To strive to be a Swachch NIT providing a guarantee of clean hostel, clean mess, clean water and hygienic & wholesome food to its students.

QUALITY POLICY

Industry-academic partnership to train general and specific technical skills to students, Preparing them to fulfill industry needs, Six month internship for final year students to promote industry exposure, Effort built research collaboration faculty/student exchange with reputed foreign institution enhancing quality academic research, Supervision of project targeting real environment providing benefit for student's better placements

COURSE STRUCTURE

TERM 3

- Digital Circuits & Logic Design
- Object Oriented Programming
- Computer Networks
- Data Structures and Algorithms
- Discrete Structures
- Numerical Methods

TERM 4

- Database Management System
- Machine Learning
- Design and Analysis of Algorithms
- Computer Organisation and Architecture
- Microprocessor and Microcontroller
- Economics for Engineering

TERM 5

- Theory of Computation
- Operating Systems
- Software Engineering
- Information Security Systems
- Probability and Statistics
- Departmental Elective - I
 - Advanced Programming Concepts with Java
 - Web Technologies

TERM 6

- Data Analytics
- Cloud Computing
- Network Security and Cyber Forensics
- Data Mining and Data Warehousing
- Departmental Elective - II
 - Computer Vision
 - Advanced DBMS
- Open Elective -I

TERM 7

- System Programming and Compiler Design
- Computer Graphics and Image Processing
- Artificial Intelligence
- Departmental Elective - III
 - Big Data Analytics
 - Blockchain - Architecture and Use Cases
 - Distributed Systems
- Open Elective - II

TERM 8

- Departmental Elective - IV
- Departmental Elective - V
- Open Elective - III

MINOR & MAJOR PROJECT

In the third year of the program, NITJ offers minor project, and in the fourth year of the program, offers one major project. These projects assist students in putting their theoretical knowledge into practice so they are not just constrained by the restrictions and bounds of books but also have a solid awareness of the actual world and how to carry out their applications there.

PLACEMENT PROCESS

INVITATION

The campus placement office distributes invitations to organizations to participate in the program along with employment notifications.

STUDENT ENGAGEMENT

The students are given access to the employer's information and the job offer through a private group, encouraging them to apply.

ON CAMPUS VISIT

Organizations visit the campus on the scheduled date(s) to conduct tests and/or interviews in accordance with their hiring procedure.

CANDIDACY SUBMISSION

The list of students who have been favorably discharged by the organization has been sent to the organization in question in relation to the students.

SHORTLISTING

At the conclusion of the scheduled interview period, preferably on the day of the campus visit, the organization is expected to furnish the list of selected Candidates.

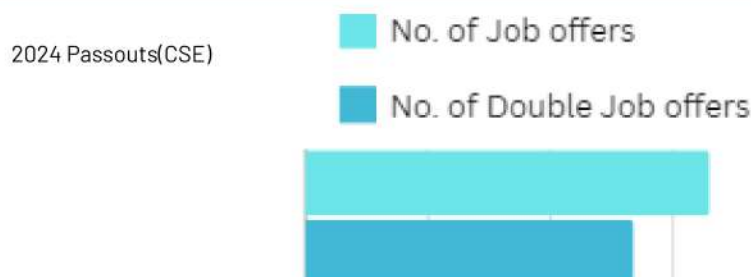
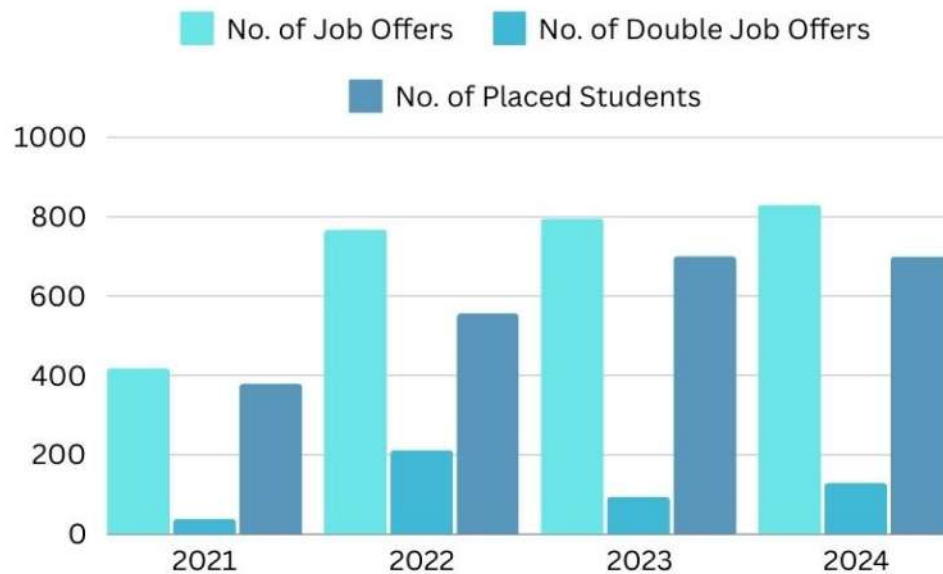
OFFER LETTER CO-ORDINATION

The Training and Placement Office sends invitations and also coordinates the signing of offer letters by students who have been chosen so that they can quickly reach the organization.

FINAL CANDIDATE SELECTION

For the organization to take part in the campus placements, along with job notification.

PLACEMENT STATISTICS



#NUMBERS THAT PROVE NITJ

15+
STARTUPS

1.2 CR
HIGHEST PACKAGE

150+
COMPANIES VISITED

995+
STUDENTS PLACED

PAST RECRUITERS



#NUMBERS THAT PROVE NITJ

15+
STARTUPS

1.2 CR
HIGHEST PACKAGE

150+
COMPANIES VISITED

995+
STUDENTS PLACED

PAST RECRUITERS



Our Esteemed FACULTY

Our faculty members are not just educators; they are mentors, researchers, and industry experts committed to guiding students towards academic excellence and professional success. Their diverse specializations span the entire spectrum of computer science, from theoretical foundations to cutting-edge technologies.

- **DR AJAY K SHARMA** | Ph.D.(NIT Kurukshetra), MS(BITS Pilani)
 - Optical Communication Systems
 - Wireless Communication Systems
- **DR A.L. SANGAL** | PhD(NIT Jalandhar), M.Tech(TIET Patiala)
 - Numerical Computing, Information Security
 - Computer Networks
- **DR HARSH K VERMA** | PhD(Punjab Technical University), MS Software Systems(BITS Pilani)
 - Software Systems, Numerical Computing
 - Computer Networks and Information Security
- **DR RENU DHIR** | PhD(Punjab University Patiala), M.Tech(Thapar University)
 - Image Processing, Pattern Recognition
 - Artificial Intelligence and Soft Computing
- **PROF. D K GUPTA** | M.Tech CSE(NIT Jalandhar)
 - Operating System Design Issues
 - Computer Vision
- **DR GEETA SIKKA** | PhD(NIT Jalandhar), M.Tech(Punjab Agricultural University)
 - Data Mining and Warehousing
 - Natural Language Processing
- **DR RAJNEESH RANI** | PhD(NIT Jalandhar), M.Tech(Punjab University, Patiala)
 - Machine and Deep Learning
 - Computer Vision, Digital Image Processing
- **DR AMRITPAL SINGH** | PhD, ME(TIET Patiala)
 - Probabilistic Data Structures
 - Machine Learning, Big Data
- **DR. ARUNA MALIK** | PhD, M.Tech(NIT Jalandhar)
 - Steganography, Virtual private network (VPN)
 - Internet of Things, Wireless Network.
- **DR K P SHARMA** | PhD(NIT Hamirpur)
 - Internet of Things for Smart Agriculture
 - Network of Drones (FANETs), Wireless Adhoc Networks
- **DR NAGENDRA P. SINGH** | PhD(IIT (BHU), Varanasi), M.Tech(MNNIT, Allahabad)
 - Medical Image Processing
 - Computer vision, pattern recognition
- **DR SAMAYVEER SINGH** | PhD(University of Delhi), M.Tech(Gold Medalist)(NIT Jalandhar)
 - Wireless Sensor Networks, Internet of Things (IoT)
 - Image Processing, Deep Learning Applications
- **DR URVASHI** | PhD(NIT Jalandhar), M.Tech(MNIT Jaipur)
 - Application Security, Cyber Warfare, Vulnerability Analysis and Management
 - Artificial Intelligence - Adversarial ML, Explainable AI.
- **DR AVTAR SINGH** | PhD(NIT Hamirpur), M.Tech(LETI, Russia)
 - Cloud Computing
 - Parallel and Distributed Computing
- **DR PRASHANT KUMAR** | PhD, M.Tech(NIT Hamirpur)
 - Wireless and mobile networks including IOT, Device-to-Device Communication
 - Mobile Ad hoc Networks (MANETs)
- **PROF. RAHUL AGGARWAL** | B.Tech(NIT Jalandhar)
 - Machine Learning
- **DR BANALAXMI BRAHMA** | PhD, M.Tech(MANIT Bhopal)
 - Deep Learning, Time Series Forecasting
 - Renewable Energy
- **DR JAGDEEP KAUR** | PhD(Gautam Buddha University), M.Tech(Punjab University, Patiala)
 - Software Engineering
 - Medical Image Processing
- **DR KUNWAR PAL** | PhD(MNIT Jaipur), M.Tech(PEC Chandigarh)
 - Computer Networks, Network Security
 - UAV Path Planning, Multimedia Communication
- **DR LALATENDU BEHERA** | PhD(IIT Guwahati), M.Tech(NIT Rourkela)
 - Real-time and safety-critical system design
 - Scheduling theory, Mixed-criticality systems
- **DR SHEFALI ARORA** | PhD(University of Delhi), M.E(Thapar University)
 - Biometric Security
 - Data Mining, Big Data Analytics
- **DR SHVETA MAHAJAN** | PhD-Engg (AcSIR - CSIR-CSIO, Chandigarh)
 - Machine Vision, Image Processing,
 - Cognitive Studies
- **DR SOMESULA M. KUMAR** | PhD(NIT Warangal), M.Tech(JNTU Hyderabad)
 - Edge computing, wireless networks
 - Vehicular networks, unmanned aerial vehicles
- **DR. SWARNIMA S. GAUTAM** | PhD, M.Tech(IIIT Allahabad)
 - Empirical Software Engineering
 - Pattern Recognition, Data Analysis

CLUBS AND ACTIVITIES

GOOGLE DEVELOPER STUDENT CLUB



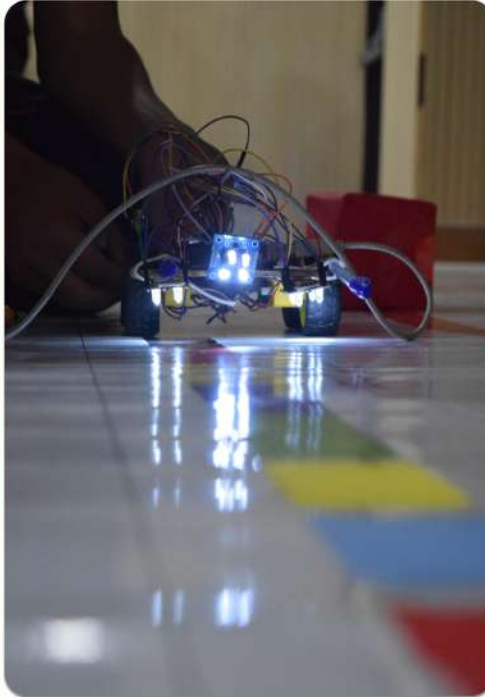
Google Developer Student Club is one of the most active and always working, such as hosting seminars and tournaments. Students are constantly practicing coding, competing, and inventing new websites and apps. There are both core and non-core members. They both collaborate and grow in their learning by interacting and aiding one other. As a result, NITJ produces amazing and skilled coders in this manner. The goals of GDSC include learning, community building, collaboration, skill development, and career development.

OPENGEEST SOCIETY



Opeengeest Society, NIT Jalandhar, is the official society of the Department of Computer Science and Engineering at NIT Jalandhar. We are dedicated to fostering a collaborative and enriching environment for all our members. One of our key initiatives is to facilitate meaningful junior-senior interactions, enabling knowledge sharing, mentorship, and camaraderie across different academic years. Through various events, workshops, and projects, Opeengeest Society aims to enhance the technical and soft skills of our members while building a strong, supportive community within the department.

ROBOTICS CLUB (R-Tist)



The Robotics Club is dedicated to fostering a passion for robotics among students, serving as a dynamic platform for enhancing their skills and contributing to the advancement of both our college and our nation. Our mission is to inspire a growing number of individuals to delve into the field of robotics by providing comprehensive resources and expert guidance, with the goal of nurturing exceptional minds in research and technology. We envision becoming a premier institution renowned for higher learning, research, and training in engineering and technology, equipping students with the knowledge and drive necessary to spearhead industrial and technological progress.

TEDx NIT JALANDHAR



TEDx NITJalandhar is an annual event dedicated to uniting inquisitive minds and sparking engaging conversations. With a diverse array of thought-provoking speakers, the event aims to introduce fresh perspectives and innovative concepts, ensuring every participant leaves with something valuable. Launched in October 2022 by a group of passionate individuals, the TEDx community at our institute has grown into a family of around 50 dedicated members. Together, we work tirelessly to provide a platform for ideas and stories from various fields to reach eager minds.

WEBSITE DEVELOPMENT AND MANAGEMENT CLUB



The club provides students with a dynamic atmosphere in which they can participate in immersive and practical learning in website construction and maintenance. This promotes a never-ending cycle of learning and self-improvement, increasing students' skill and understanding in this topic. This route acts as a conduit for the application of various knowledge modalities within this field, thereby continuously expanding their pool of knowledge.

NOTABLE ALUMNI



SHEENAM JINDAL | 2011

Engineering Manager at Atlassian

RAGHUVeer MEENA | 2015

Assistant Section Officer (Defence Ministry)

NAVEEN JOSHI | 1997

Principal at Ascella Technologies

PAWAN | 2015

IES Officer at Ministry Of Railways

ANKIT KHANNA | 2011

Founder and CTO at Suraasa

ALOK KUMAR | 2012

Co-Founder & CTO at Peer Robotics

VIKRAMJIT SINGH CHUG | 2015

Senior Product Manager at Microsoft

MANISHA GUPTA | 2017

Data Scientist at HP

ANUBHAV GOEL | 2016

Vice President at Wells Fargo

TAYENDER KUMAR | 2011

Senior MTS at Salesforce

and many more...
visit the [website](#)



Our **RECRUITMENT**

2-MONTH INTERNSHIP

Six to eight weeks internship after 6th semester is a compulsory requirement for all the B Tech Programmes of the institute. This internship is integral to the curriculum, providing students with practical industry experience and the opportunity to apply theoretical knowledge in real-world settings

6-MONTH INTERNSHIP

To expose students to state-of-the-art and best industry practices, the institute mandates its students to intern at various firms in the 8th semester. The institute may also permit the students to undergo 6-month internship cum placement during the 8th Semester of the course.

FULL TIME HIRING

NITJ offers a comprehensive campus recruitment program, providing full-time hiring opportunities for students. Renowned companies from various sectors, including PSUs, actively participate in recruiting students. Eligibility criteria ensure a fair and structured process, aligning students with top-tier career prospects.

BRANDING On Campus

Presentations

Presentations can serve as a particularly valuable tool for reaching out and communicating with the student body. An effective presentation provides students with adequate information about your firm's objectives, the available job opportunities and career paths within the firm. This will enable appropriate candidates who feel they have the skill sets required for the job and who identify with the organizational culture to apply for positions with the firm

Live Projects

You may select candidates and work with them on projects that would be considered for implementation. This can be done through the placement office, through one of the clubs or through an academic course. Live projects would give you an opportunity to work closely with a few students to evaluate them as well as gain unique insights from the student community.

Guest Talks

Your firm can also build presence on the campus by having senior representatives coming down and interacting with the students. This can be done through the placement office or through one of the clubs on the campus. The placement office can help your firm coordinate with the bodies on campus to facilitate such talks.

Campus Events

NIT Jalandhar also provides firms with many opportunities to participate in the student learning process. You can do this by organising hackathons, coding contests, etc. or by getting associated with class events or club events. Please get in touch with the Placement Office to avail of this opportunity

CONTACT US

Centre for Training & Placement

ctp@nitj.ac.in

<http://nitj.ac.in>

REACH US

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PLACEMENT REPRESENTATIVES

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