Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR - 144008

Admission to PhD (Full-Time and Part-Time) Programme in Engineering, Sciences, Humanities and Management for the Academic Year 2026-2027

(Session January, 2027)

Applications are invited for admission to various PhD (Full-Time and Part-Time) Programme in Engineering, Sciences, Humanities and Management for the Academic Year 2026-2027 (Session January, 2027).

S. No.	PhD Program	Remarks
1	Ph.D. Full-Time (REGULAR)	**(i)** Candidates who have qualified GATE/UGC-NET/Inspire Fellows/ **UGC-NET(JRF/Assistant Professor)/ Admission to PhD only category** are eligible to apply for these programs without appearing in the written test for admission to PhD programs conducted by various departments of NIT Jalandhar. These candidates after verification of their eligibility by the concerned departments/centre will be called for Interview/presentation. **(Candidates who qualified UGC-NET (Admission to PhD only category) will not be provided institute fellowship).** **(ii)** Candidates who are not GATE/NET qualified can also apply for the admissions for PhD Part-Time/Self Sponsored (without fellowship). Various departments of NIT Jalandhar will conduct written test for admission to PhD programs as per the schedule in this advertisement. Candidates who qualify the written test will be eligible/shortlisted to appear in Interview/presentation to be conducted by departments.
2	Ph.D. Full-Time (SPONSORED)	
3	Ph.D. Full-Time (SELF-SPONSORED)	
4	Ph.D. (Part-Time EMPLOYED/EXTERNAL)	
5	Ph.D. (Part-Time) PROJECT STAFF)	
6	Ph.D. (Full-Time) with external fellowships like JRF/DST INSPIRE etc.	The candidate who has already secured funding/fellowship from reputed external agencies like JRF/DST INSPIRE/WISE etc. can apply for admission to Ph.D. (Full-Time) programme under this category without appearing in the written test for admission to PhD programs conducted by various departments of NIT Jalandhar.
7	PhD (Split Site- Full Time)	Research scholars (JRF/SRFs) who are working with selected Research laboratories/Institutes having MOU with Institute (NITJ) will be offered admission to PhD Program under Split Site-Full Time category subject to fulfilment of all the eligibility conditions for admission to full time PhD program (REGULAR) of Institute.
8	Joint Doctoral Degree Program (with IIT Jammu)	This is a unique Joint Degree program offered by NIT Jalandhar jointly with IIT Jammu whereby the students will be enrolled in the PhD program (Full-Time with Institute fellowship) at NITJ. The PhD students will get student exchange opportunity with IIT Jammu and on successful completion of the PhD Program (JDP) will be awarded a joint degree. The PhD students enrolled will get a chance to collaborate on multidisciplinary research projects with faculty members and research teams from IIT-JMU and NITJ, as well as to take advantage of the facilities and professional development opportunities offered by both institutions.

(The admission to all Ph.D. programmes in all disciplines mentioned in this advertisement shall be made purely on the basis of "interview/presentation" to be made by the shortlisted applicants in their proposed area of research followed by "interaction" to be conducted by the respective Department Admission Committee. Mere shortlisting/eligibility based upon any Tests above, of an applicant does not confirm admission to Ph.D. Programme)

The Broad areas of Research, Eligibility Criteria, Selection Procedure, Reservation, Teaching Assistantship-cum-Scholarship, etc. are also given in this advertisement.

How to apply: The link to fill the online application form can be accessed through Institute website www.nitj.ac.in. Please submit separate application forms, if applying for more than one programme. An application fee of Rs.1000/- (Rs.500/- for SC/ST/PWD candidates) is required to be paid online. The candidates are required to apply online and there is no requirement to send the Hard Copy of the application form to the Institute. Application fee shall not be refunded in any case.

Last date for submission of online application form is 14.12.2026 for GATE/NET/Non-GATE/Non UGC-NET/ INSPIRE Fellows/any other national level fellowship holder etc.

The link for application for Sr.No 8 Joint Doctoral Degree Program & Schedule of events shall be displayed separately on the Institute Website.

For more details, the candidates are advised to visit the Institute website www.nitj.ac.in for updates.

Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR – 144008

Admission to PhD (Full-Time and Part-Time) Programme for the Academic Year 2026-20276 (Session January, 2027)

A) BROAD AREAS OF RESEARCH - Ph.D. (Full-Time, Part-Time)

Sr. No.	Department Email address of HOD	Broad Areas of Research
01	Biotechnology obt@nitj.ac.in	Biomaterials, Tissue Engineering, Nano-Biotechnology, Biomass Valorisation, Computational Biology, Drug Delivery System, Medicinal Chemistry, Resource Recovery (Bioactive compounds), Waste valorization, Environmental Biotechnology, Applied Microbiology & Bioremediation, Enzyme Technology, Bioinformatics, Proteomics, Algal biotechnology, Bio-electrochemical Engineering Bioenergy and Biofuels, Micro-plastics, Bioremediation, Secondary metabolites in plants and microbes, Environmental Microbiology, Biofilms, Wastewater treatment, Solid waste management, Biorefinery, Bioreactor Design, Bioprocess Engineering, Resource Recovery from Wastes, Nutrient and Emerging, Membrane Technology
02	Chemical Engineering och@nitj.ac.in	CO2 Sequestration, Multiphase Reactions, Mineral Carbonation, Waste Utilization and Management, Polymer Films, Edible Films and Coatings, Analytical, Numerical and Soft–Computing, Modeling and Optimization of Reaction Processes, Functional polymeric coatings, wastewater treatment using polymers/coatings, Coatings for Energy and Environment, Environmental Engineering and Management, Social and Economic Engineering, Green Energy, Agro technology, Microbiology, Pharmaceuticals, Process safety, Photocatalysis, AOPs, Waste Water Treatment, smart materials, drug delivery, Softmatter, Polymer Nanocomposites, complex colloids, Polymer blends. Montecarlo & Molecular dynamics simulations, ML, Catalysis, Reaction Kinetics, Biomass to value added products, Nanomaterials and Nanotechnology, Advanced Nanomaterials and Nanocomposites for Green Hydrogen, Environmental and Sustainability, Smart Materials for Wastewater Treatment, Computational Fluid Dynamics (CFD), Rheology complex Fluid. Nanomaterials for CO2 capture and utilization.
03	Civil Engineering oce@nitj.ac.in	Geotechnical Engineering, Structural Engineering, Transportation Engineering, Environmental Engineering, Water Resources Engineering, Construction Engineering & Management, Geoenvironmental Engineering, RIS & GIS AI/ML applications in civil engineering.
04	Computer Science & Engineering ocs@nitj.ac.in	Mobile Edge Computing, Vehicular Networks, Software Defined Networks, Internet of Thing, Computer Networks, Wireless Sensor Network, Information-Centric Networking, 5G, D2D Communication, UAV Path Planning, Safety-critical System Design, Real-time Scheduling Theory, Real-time Systems, Real-time Computer Vision Applications, Data Science, Probabilistic Data Structures, Machine Learning, Image Processing, Cyber Warfare, Information Security, Steganography, Cyber Security, Artificial Intelligence, Deep Learning, Lightweight Deep Learning, Cyber Physical System, Post Quantum Cryptography, Software Systems, Software Engg, Empirical Software Engg., Numerical Computing, Time Series Forecasting, Renewable Energy, Drone Vision, Computer Vision, Medical Image Processing, Numerical Computing, Information Retrieval, Natural Language Processing, Social Network, Recommendation System, Edge and Cloud Computing, Pattern Recognition, Data Mining and Analysis.
05	Electrical Engineering oee@nitj.ac.in	Power system, State estimation, Smart grid, Cyber-security, Machine learning, Deep learning, Condition monitoring of power equipment, Remaining useful life estimation, Explainable AI, Neuromorphic computations, Energy Management System, Power System Transients, EMF theory, High Voltage Engineering, Electric Drives and Control, Power Electronics, Multi Level Inverters, Power Quality Issues, Smart Microgrids (AC / DC / Hybrid), Interconnections of Microgrids, Hybrid Renewable Energy Systems, Distributed Generations, PWM Based Voltage Source Converters, Applications of Power Electronics in Power Systems, Microgrids based EV Infrastructures, Solar PV System, Fuel Cell Technology

06	Electronics & Communication Engineering oec@nitj.ac.in	Antenna, Electromagnetic Application for Biomedical Antennas, Machine learning, AI, Signal Processing, Acoustics and Audio, Filters, Biomedical signal and image processing, Machine learning and deep learning, RF Circuits Design and Antennas, Nanoscale devices, Low power VLSI Design, Wireless Communication Systems., Signal Processing, Plant signalling, Machine learning, Communication Networks, Ad Hoc Networks, Computer Networks, Internet of Things, M2M Communications, RF and Microwave Circuit Designing, High frequency devices, Biomedical signal and image processing, Memory Design, Quantum Communication and Computing, RFICs/MMICs.
07	Information Technology oit@nitj.ac.in	Artificial Intelligence, Machine Learning, Metaheuristics, Bioinformatics, Image Mining, Soft Computing, Cloud Computing, Sensor Networks, IoT, Big Data Analytics, Body Area Networks, Fog Computing, Edge Computing, Image Processing, NLP, Blockchain, Federated Learning, XAI, Cyber Security, Privacy, Digital Forensic. Applied Data Science, Smart Agriculture, AI assisted, Environment Sensing, Data Science, Medical Image and video Analysis, Computer vision, quantum machine and deep learning
08	Instrumentation & Control Engineering oic@nitj.ac.in	Measurement and Instrumentation, Biomedical Signal Processing, Biomedical and image reconstruction, Physiological Control systems, Robotics, Digital image processing and analysis Computer/ machine vision with DL/ML, WSN, VANET IIOT, Cyber physical system, Smart sensors, Intelligent sensor systems, AI based Virtual instrumentation system, smart agriculture, digital health care, Microgrids, Power System Operation and Control, Machine Intelligence, Applications of Soft Computing, Artificial Intelligence, Machine Learning, Deep Learning, cognitive science, human Machine Interface, Drone intelligence, Process Control, Digital Control, Signal-Image-Video Processing, Quantum Learning, Cyber Security, Aerial Robotic (Drone Technology), Biomedical instrumentation, Machine Learning for biomedical engineering, Soft computing in biomedical applications, Control Theory and Applications, Circuit Design, Model Order Reduction, Optimization, UAVs, DC-DC Converters and Renewable Energy, Control Systems, AI Techniques, Electric Vehicle, Brain-Computer Interface, Human-Robot control, Biomedical Instrumentation and Control, AL/ML applications, Controller Design, Advanced Active Suspension Control for Railway Vehicle, Predictive Health Analytics and Modeling, Smart Wearables for Cardiac Monitoring, Biophotonics, Biosensor, cancer diagnostics, Photoacoustic, Laser generated ultrasound for imaging and sensing, Drone detection and classifications, Robust and Resilient Control, Cyber Physical Systems & Control, Post Quantum Security Analysis, Digital Twin, Autonomous Systems, Reinforcement Learning, MicroGrid, Modern Power System Operation, control and stability, Power Electronics Converters, Battery Monitoring Systems.
09	Industrial & Production Engineering oie@nitj.ac.in	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, Tribology 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, 3D printing of Composites, Composite fabrication, Microwave Sintering, Welding Technology, Tribology, EDM wirecut, Surface Coating, Surface Engineering, Thermal Texturing, Phase field modelling of Additive Manufacturing, fracture mechanics, fatigue crack growth
10	Mechanical Engineering ome@nitj.ac.in	Robotics, Mechatronics, System Dynamics & Control, Modeling and Simulation of Physical System Dynamics, Biomechanics, Bond graph, Combustion and Heat transfer, Composite Material, renewable energy, Welding Technology Materials, Joining of materials creep, Thermal

		Polygeneration, Solar Energy, Thermal Energy Storage, Refrigeration & Air Conditioning, Heat Exchangers, Welding, Vibration, Alternative Fuels for Combustion Engines, IC engine Emission Control, Engine Combustion Investigations, Fuel Efficient Engines, Low Temperature combustion, Fluid Flow and Heat Transfer, Molecular dynamics, Finite element methods, Modal Analysis, Microwave processing of materials, Vibration engineering, Metal-Matrix, composite materials fracture mechanics, Damage Mechanics, Ballistic Impact Analysis, FEM, CAD, Machining, Hybrid Processes, Additive Manufacturing, Welding Technology, Surface Engineering, Computational Fluid Dynamics, MEMS Design and Microchannel Heat Sink, Optimization of Thermal Devices and Energy Management, Nanofluids and Nano-Enhanced Phase Change Materials in PV/T system, Battery Thermal Management System, Building integrated Photovoltaic systems, Cryogenics, Energy efficiency and Thermal Comfort in Buildings, Nanotechnology Applications in Solar Energy, Product Design and Innovation, Advanced Hybrid Manufacturing Processes and Technologies: Dieless Manufacturing, Additive Manufacturing; Friction Stir Welding; Computer Aided Design and Analysis: Topology Optimization, Biologically Inspired Design, Bio-CAD, Fluid flow and Tribology, Thermal Engineering, Optimization of thermal systems, CFD & Heat Transfer, Microchannel, thermal storage (PCM). Interdisciplinary and emerging research areas include the application of Artificial Intelligence (AI) and Machine Learning (ML) in optimization of design and thermal systems, manufacturing automation, and predictive maintenance, integration of IoT, digital twins, and Industry 4.0 concepts for smart systems; development of advanced and sustainable materials; autonomous and electric mobility; and intelligent robotics.
11	Textile Technology otx@nitj.ac.in	Technical Textiles, Fabric Structure- Property relationship, Medical Textiles, Textile wet processing of fibre, yarn, textiles and technical textiles, bioprocessing of textless, specialty finishes such as antibacterial, UV protective, electro conductive, etc. finishing of textiles, Technical Textile Yarn, Textile Waste upcycling 3D woven preforms and their composites, Textile based strain monitoring composites sensors, Textile chemical Processing, Sustainable Chemical Processing of Textiles, Biopolymers, Porous Polymers, Electrospinning, Emulsion Templating Fibers and Polymer Processing, Gel-spun fibre, Nanocomposite fibre, UHMWPE tape, High performance fibre, Protective Textiles Filtration, Thermoplastic composites and Shear thickening fluid, Laminates, natural fibre reinforced composite biodegradable composite, Natural and new age piant-based fibre, Machine development, Knitting Technology, Shape Memory Textiles, Smart and Functional Textiles, Structural Property, Relation of Textiles
12	Humanities & Management ohm@nitj.ac.in	**Humanities Area:** English Language and Literature, ELT, Professional Communication, Linguistics, Gender and Culture Studies, Feminism, English Literature: Gender Studies (feminism, Transgender, Queer, Men studies), Diaspora, Postcolonial Theory, Comparative Literature, Culture, Media, Folkloristics, Literature of Northeast India, Culinary Literature, Bhakti Tradition, Ecofeminism, Interdisciplinary Studies Literature and Science, Science on Stage, History and Philosophy of Science, Drama, Theatre and Performance Studies, Forensic Linguistics, Sociolinguistics, Language Variation and Change, Language Acquisition, Language Documentation and Description The interdisciplinary research areas are: Literature and Science, Science on Stage, History and Philosophy of Science, Ethics of AI, Ethics of Technology **Management Area:** General Management, Human Resource Management, Marketing Management and, Entrepreneurship Development and Management, Sustainable / Climate/ Green Finance, Circular Economy, ESG, Biodiversity Risk, stock market performance, Financial Economics,

		Fintech, Entrepreneurship, Corporate Governance Behavioral Finance, Financial Management, Fintech, and Emerging Finance Areas, AI-Powered Chatbots on Customer Experience and Brand Loyalty, Role of Augmented Reality (AR), Neuromarketing, Green Consumerism, Effect of Green Marketing, Sustainable Branding, Ethical Dilemmas in Targeted Marketing and Emotional Branding, Financial Accounting, Stock Markets, Financial Analytics, Intersection of Economics, trade, and/ or finance, Bankruptcy Prediction, Financial Distress Prediction, Corporate Finance, Mutual Funds, Banking Sector, Crowdfunding, Security Analysis, Organization Behaviour, Business & HR Analytics, Social Entrepreneurship, Technology Management, Science & Public Policy, Tourism Management, Business Ethics, Labour Economics, Consumer Behaviour, Brand Management, Agribusiness, Cooperative Management, Technology Management, Development and Society Interdisciplinary research areas are: AI Powered Chatbots and customer experience, Role of augmented reality
13	Physics oph@nitj.ac.in	Laser Plasma Interactions, Nuclear Physics, Nuclear Astrophysics, Radiation Physics, High Energy Physics, Soft condensed matter Physics (liquid crystals), Nanomaterials,, Condensed Matter Physics, Quantum Thermodynamics
14	Chemistry ocy@nitj.ac.in	Smart Materials, Drug delivery, Nanocomposites, Hydrogels as sensors, Nanomaterial Chemistry, Coordination chemistry, computational chemistry, crystallography, Optical sensors, catalysis, organic synthesis, nano synthesis, Synthesis of Fluorescent organic Materials and nanomaterials for chemo sensing, Nanomaterials for hydrogen evolution, Green Nanotechnology; Environmental Remediation, Wastewater Treatment; Sensing of analytes, Inorganic Chemistry/Supramolecular Chemistry, Surface Wettability, Ionic Liquid, Deep Eutectic Solvent, Drop motion, Environmental remediation, Organic Synthesis for medicinal chemistry and materials, Covalent Organic Frameworks for energy and environmental applications, inorganic chemistry - Coordination polymers for energy and environmental applications, Inorganic chemistry, Nanochemistry, Physical Chemistry, Computational Chemistry, Advance Functional porous materials, Biomass transformation, Heterogeneous catalysis, Carbon Capture and Utilization, Development of fluorescent molecules for sustainable environment monitoring and remediation. Design of Liquid crystal aqueous interfaces (i) to study various bio molecular events and (ii) for chemo and bio-sensing.
15	Mathematics and Computing oma@nitj.ac.in	Controllability and Stability Analysis of Differential Equations, Dynamical Systems, Fractional Calculus, Synchronization, Neural Networks and their applications to solve differential equations, Commutative Algebra, Machine Learning, Deep learning, AI in Healthcare, Numerical Analysis & Scientific Computing, Numerical Solution of PDEs using neural networks, Time Series analysis/forecasting using deep learning, Real Analysis, Fractal Geometry, Fractal Functions, Fixed Point Theory and Applications, Quantization, Computer Aided Geometric Design, and Numerical Analysis, Fluid Dynamics, Quantum Machine Learning, Cloud Computing, Spatial Data Analysis, Computer Network, Partial Differential Equations, Hyperbolic Conservation Laws, Numerical Solution of PDEs using neural networks, Evolutionary Algorithms, Explainability of AI Models

B) Eligibility Criteria

1) Ph.D. Full-Time (REGULAR)

(i) Educational Qualifications-

(a) PhD in Engineering Departments (Sr. No. 1 to 11):

- Master's Degree in Engineering/Technology/Science in the relevant area of research along with a Bachelor Degree with first-class or minimum 60% marks or minimum CGPA of 6.5 on a 10 point scale or equivalent in the qualifying examination.
- For all Engineering Departments (Sr. No. 1 to 11), **direct Ph.D. admission** is also available in case of candidates with B Tech/B.E./BS (4 year)/department specific eligibility as per Annexure –I. It is mandatory for such candidates to have a **valid GATE score and a CGPA of 7.5 and above on a 10 point scale** or equivalent in the qualifying examination for admission to Direct Ph.D. programme of the Institute with Institute Fellowship. For these candidates, the number of credit courses to be cleared will be 24 credits before the comprehensive examination

(b) PhD in Science Departments: Master's degree in Science/Engineering/Technology in a relevant area with a first-class or minimum 60% marks or minimum CGPA of 6.5 on a 10 point scale or equivalent in the qualifying examination.

(c) PhD in Humanities and Social Sciences/Management: Master's degree in a relevant area with at least 60% marks or a CGPA of 6.5 on 10 point-scale equivalent in the qualifying examination.

(DETAILED DEPARTMENT SPECIFIC EDUCATIONAL QUALIFICATIONS ARE LISTED IN ANNEXURE-I of this Advertisement)

(ii) ESSENTIAL REQUIREMENTS FOR AWARD OF INSTITUTE FELLOWSHIP/FINANCIAL ASSISTANTSHIP-

Following candidates are eligible for Fellowship from the institute/ from the external funding agency -

a) Candidates with ME/MTech or equivalent degree having **qualified GATE** examination.

b) The candidates with four-year Bachelor's degree (BE/ B.Tech./B.Des. or equivalent) as qualifying degree must have a **valid and qualifying GATE score.**

c) The candidates with MSc as qualifying degree must have **valid and qualifying GATE score or valid CSIR-NET(JRF)/UGC NET, INSPIRE/NBHM-PhD qualification**, etc.

d) The candidates having MA in Humanities and Social Sciences subjects or /equivalent/commerce/Management Degrees must have **valid UGC-NET qualification.**

e) Candidates who qualified NET for PhD only category need not to appear in the written test. However, they will not be provided institute fellowship).

2) Ph.D. FULL-TIME (SPONSORED)

(i) A candidate in this category is sponsored by a recognized R&D organization, academic institution, government organization or industry for doing research in the Institute on a full-time basis. **The Institute does not provide any fellowship to such a candidate.**

(ii) The candidate under this category must be a regular employee of his/her organization with at least one year of experience at the time of applying and be engaged in professional work in the discipline in which admission is sought.

(iii) The candidate should submit Sponsorship Letter from the employer along with the application. The application without Sponsorship Letter will NOT be considered.

(iv) Appearing & Qualifying the written test of NIT Jalandhar (applicable in case of non GATE/non NET/JRF etc candidates) is essential to be shortlisted for interview/presentation.

(v) The admission to all Ph.D. programmes in all disciplines mentioned in this advertisement shall be made purely on the basis of a "presentation" to be made by the shortlisted applicants in their proposed area of research followed by "interaction" to be conducted by the respective Department Admission Committee. Mere shortlisting/eligibility of an applicant does not confirm admission to Ph.D. Programme

(vi) The final admission to the candidates under this category is based on the performance in the written test and/or interview conducted by the concerned academic department/center, academic credentials of the candidates, etc.

(vii) These candidates, if selected, will not be provided any fellowship/contingency grant bythe Institute.

3) Ph.D. FULL-TIME (SELF-SPONSORED)

(i) The candidates under PhD Full-Time Self-Sponsored programme will be admitted **without financial assistantship** from NIT Jalandhar.

(ii) The students under this category must be able to attend classes regularly as per the schedule of the Institute during the course work and do research work by reporting every day to the supervisor/department.

(iii) Appearing & Qualifying the written test of NIT Jalandhar (applicable in case of non GATE/non NET/JRF etc candidates) is essential to be shortlisted for interview/presentation.

(iv) The admission to all Ph.D. programmes in all disciplines mentioned in this advertisement shall be made purely on the basis of a "presentation" to be made by the shortlisted applicants in their proposed area of research followed by "interaction" to be conducted by the respective Department Admission Committee. Mere shortlisting/eligibility of an applicant does not confirm admission to Ph.D. Programme

(v) These candidates, if selected, will not be provided any fellowship/contingency grant bythe Institute.

4) Ph.D. (Part-Time EMPLOYED/EXTERNAL)

A RS in this category is a professionally employed person (including the staff of NIT Jalandhar), who pursues the PhD Programme while continuing the duties of his/her service. **The Institute does not provide any assistantship/fellowship to such a RS.** Such candidates have to submit a "No Objection Certificate" from their employer, failing which their candidature will not be considered.

(i) The candidates under PhD Part-Time Employed/External programme are professionally employed persons (including regular employees of NIT Jalandhar) or sponsored by a recognized R&D organization, academic institution, government organization or industry with adequate Research Facilities for doing PhD at NIT Jalandhar. These candidates should be able to complete their course work as per the Institute norms.

(ii) The candidate under this category must be a regular employee of his/her organizationwith at least one year's of experience at the time of applying and be engaged in professional work in the discipline in which admission is sought.

(iii) The PhD student under external category may be carry out the PhD Thesis Research Work mainly at his/her parent organization under a Local Supervisor but with the overall guidance provided by a faculty member (NITJ Main Supervisor).

(iv) The candidate under this category must be a regular employee of his/her organization with at least 1-year of experience at the time of applying and be engaged in professional work in the discipline in which admission is sought.

(v) They should submit No Objection Certificate from the employer along with the application. The application without No Objection Certificate will NOT be considered.

(vi) Appearing & Qualifying the written test of NIT Jalandhar (applicable in case of non GATE/non NET/JRF etc candidates) is essential to be shortlisted for interview/presentation.

(vii) The admission to all Ph.D. programmes in all disciplines mentioned in this advertisement shall be made purely on the basis of a "presentation" to be made by the shortlisted applicants in their proposed area of research followed by "interaction" to be conducted by the respective Department Admission Committee. Mere shortlisting/eligibility of an applicant does not confirm admission to Ph.D. Programme

(viii) These candidates, if selected, will not be provided any fellowship/contingency grant by the Institute.

For a foreign national candidate who applies through Ministry of Education, Govt. of India, or Indian Council of Cultural Relations, Govt. of India, are eligible to apply provided that they possess the same minimum qualifications as required for Ph.D. admission incase of Regular candidates.

5) Ph.D. (PART-TIME PROJECT STAFF) for candidates/staff working under the Research Projects sponsored by MHRD/DST/UGC or some other government agency at NIT, Jalandhar/any other institute

Candidates/staff working under the Research Projects sponsored by MHRD/DST/UGC or some other government agency at NIT, Jalandhar/any other institute may pursue PhD under Part Time Category subject to the fulfilment of the following eligibility conditions:

(i) The candidates under Project Staff and Part Time Category are presently working onsponsored R&D projects at NIT Jalandhar/any other Institute.

(ii) They pursue PhD programme at the Institute on part time basis.

(iii) The remaining duration of the project at the time of admission should be at least one year. If the project gets completed before the student completes his/her PhD Programme, then his/her category will be converted to that of SELF-FINANCED unless he/she is absorbed in some other R&D Projects or he/she is granted an fellowship from any other agency.

(iv) They are not entitled to receive Fellowship from the Institute.

(v) They should submit No Objection Certificate from the Dean-R&C, NIT Jalandhar/concerned PI of that Institute along with the application. The application without No Objection Certificate will NOT be considered.

(vi) Appearing & Qualifying the written test of NIT Jalandhar (applicable in case of non GATE/non NET/JRF etc. candidates) is essential to be shortlisted for interview/presentation.

(vii) The admission to all Ph.D. programmes in all disciplines mentioned in this advertisement shall be made purely on the basis of a "presentation" to be made by the shortlisted applicants in their proposed area of research followed by "interaction" to be conducted by the respective Department Admission Committee. Mere shortlisting/eligibility of an applicant does not confirm admission to Ph.D. Programme

(viii) These candidates, if selected, will not be provided any fellowship/contingency grant by the Institute.

6) Ph.D. (Full-Time) with external fellowships like JRF/DST INSPIRE etc.

The candidate who has already secured funding/fellowship from reputed external agencies likeJRF/DST INSPIRE etc. can also apply for admission to Ph.D. (Full-Time) programme. **These candidates, if selected, will not be provided any fellowship/contingency grant by the Institute.**

7) PhD (Split Site- Full Time):

Research scholars (JRF/SRFs) who are working with selected Research laboratories/Institutes having MOU with Institute (NITJ) will be offered admission to PhD Program under Split Site-Full Time category subject to fulfilment of all the eligibility conditions for admission to full time PhD program (REGULAR) of Institute. Fellowship for all such candidates will not be offered by Institute and will continue to be paid by the concerned research institute/laboratory.

The Institute will follow the below mentioned procedure for enrolment in PhD (Full Time-Split Site) category-

i. JRF/SRFs working at Research laboratory/Institute (with fellowship) having MOU with NITJ can apply for admission in any department at NITJ through regular admission process for Ph.D. as per the rules and regulation of NITJ. If found eligible and admitted under this category, the research scholars shall be governed by all the PhD regulations of NITJ as applicable.

ii. The program would consist of course work and research work.

iii. The course work shall be carried out at NITJ as per institute provisions/at research institute/laboratory, and if agreed, by the faculty/scientists of both the institutes in collaboration.

iv. The research work can be carried out at Research Institute/laboratory and/or NITJ premises.

v. JRF/SRFs (with fellowship from Research Institute/laboratory) registered at NITJ under PhD (Full Time-Split Site) category as Ph.D. scholars will be jointly supervised by faculty of NITJ and scientists of research institute/laboratory as per provisions contained in NITJ PhD regulations.

vi. Faculty/scientists of both the research institute/laboratory and NITJ can be designated as main supervisors of the registered PhD scholar.

8) Joint Doctoral Program

This is a unique Joint Degree program offered by NIT Jalandhar jointly with IIT Jammu whereby the students will be enrolled in the PhD program (Full-Time with Institute fellowship) at NITJ. The PhD students will get student exchange opportunity with IIT Jammu and on successful completion of the PhD Program (JDP) will be awarded a joint degree. The PhD students enrolled will get a chance to collaborate on multidisciplinary research projects with faculty members and research teams from IIT-JMU and NITJ, as well as to take advantage of the facilities and professional development opportunities offered by both institutions.

JOINT DEGREE PROGRAM STRUCTURE:

8.1. The program offers PhD students enrolled in both institutions the chance to collaborate on multidisciplinary research projects with faculty members and research teams from IIT-JMU and NITJ, as well as to take advantage of the facilities and professional development opportunities offered by both institutions.

8.2. Candidates have a "Home Institution" where they begin their studies and spend the majority of time. The expectation is that the candidates will spend a minimum of 12 months at the other, "Host" Institution; the timing and duration of this will depend on the program of research but in general will be in the second or third year of the degree.

8.3 Additional conditions for the JDP are:

- Undertake a program of progress monitoring and examination that meets the requirements of both institutions
- Comply with the rules, regulations, policies, codes and procedures of both institutions
- Write and submit a thesis for defense by oral examination at the home institution

8.4. Candidates for the PhD JDP will be enrolled in the PhD program of both institutions. The supervisory team will comprise academics from both institutions who will provide guidance and support throughout the doctoral program. Candidates will benefit from the networking, and collaborations between the research communities of IIT-JMU and NITJ. Through enrolment at both institutions, the candidates will have access to services and support provided both at IIT-JMU and NITJ, including a variety of professional and personal development opportunities for researchers.

8.5. Candidates may have already commenced a PhD at their Home Institution prior to converting in the joint PhD program through enrolment at the Host Institution. In such cases, the scholarship and duration of Ph.D. will be counted from the start date of the original enrolment at the home institution.

8.6. The primary supervisor shall be from the Home Institution. There must be a Joint supervisor from the Host Institution.

8.7. The PhD JDP includes a tailored program of progress monitoring to fulfil the requirements of both institutions. On successful completion of the program requirements, candidates will be awarded a PhD degree jointly by both the Institutions.

The academic qualifications for the programmes mentioned at Sr. No. 2, 3, 4, 5, 6, 7 & 8 will be same as that for Ph.D. (Full-Time) as mentioned at Sr. No. B (1).

Note 1: Only primary mode of evaluation (CGPA or percentage) as mentioned in the qualifying degree certificate/mark sheet will be considered while verifying eligibility. Conversion from CGPA to percentage or vice versa given by individual Institute/University will not be allowed

Note 2: For the SC / ST / PwD applicants, the eligibility requirement of marks be relaxed by 5%, or by a CGPA of 0.5 (on a 10 point scale) at both the Bachelor's and Master's level.

A) Seat Matrix:

The number of seats depends upon the number of available research guides in the Institute, vacancies available with the guide and research infrastructure in the concerned Department. The admission of candidates to Ph.D. programme depends on the expertise available in a department and the willingness of the candidate to work in the corresponding research areas. The following table shows the tentative number of seats available in various Departments for admission during January, 2026 session, however, it is not obligatory for the Institute or concerned Department to fill all the seats mentioned in this matrix. The number of seats may increase/decrease as per the vacancies available at the time of admission.

S. No.	Name of Department	Full Time Institute Fellowship Seats						DST/JRF/ Inspire Fellow ship	Part Time at NITJ	Part Time under Projects at NITJ	Self-Spon sored	Total Nos.
		Deptt. wise total seats	UR	OBC-NCL	SC	ST	EWS					
1.	Biotechnology	5	2	1	1	1	0	7	2	3	1	18
2.	Chemical Engineering	9	4	2	1	1	1	9	17	3	6	44
3.	Chemistry	4	2	1	1	0	0	15	6	2	7	34
4.	Civil Engineering	11	4	3	2	1	1	2	13	3	8	37
5.	Computer Science & Engineering	30	12	8	4	2	4	23	22	11	26	112
6.	Electrical Engineering	5	2	1	1	0	1	3	6	2	3	19
7.	Electronics & Communication Engineering	14	6	4	2	1	1	10	28	9	14	75
8.	Humanities & Management	3	1	1	1	0	0	18	2	0	2	25
9.	Industrial & Production Engineering	10	4	3	1	1	1	2	8	1	2	23
10.	Information Technology	13	5	4	2	1	1	19	34	12	18	96
11.	Instrumentation & Control Engineering	11	4	3	2	1	1	3	17	6	9	46
12.	Mathematics and Computing	5	2	1	1	0	1	13	1	1	1	21
13.	Mechanical Engineering	17	7	5	2	1	2	6	15	2	10	50
14.	Physics	2	1	1	0	0	0	7	3	1	1	14
15.	Textile Technology	9	4	2	1	1	1	4	10	3	5	31
TOTAL		**148**	**60**	**40**	**22**	**10**	**15**	**141**	**184**	**59**	**113**	**645**

NOTE: UR means Unreserved Seats and any candidate can apply under this category of seats subject to the condition that he/she will not be granted any relaxation in the qualifying marks/written test marks etc. meant for the reserved category candidates.

Reservation of the Ph.D. (Full-Time) Institute Fellowship Seats shall be as per Government of India norms and number of seats available in the respective Department. Horizontal Reservation of 5% to PwD candidates in each category (UR, EWS, SC, ST, OBC) shall be applicable

Candidates are advised to apply accordingly. No request for admission to a reserved category seat which is 'NIL' as per this advertisement shall be considered.

Seats are available under Joint Degree Program (JDP) in the below mentioned departments under the Full-Time (Institute fellowship seats):

a) Electronics & Communication Engineering
b) Instrumentation & Control Engineering
c) Civil Engineering
d) Information Technology
e) Bio Technology
f) Computer Science & Engineering
g) Textile Technology

B) Admission Procedure

i. **Candidates with GATE/NET (JRF/LS)/ UGC (JRF/LS) /GPAT/ Inspire etc, need not qualify written test of NIT Jalandhar.** These candidates will be given preference for admission. For all other candidate it is essential to appear and qualify the Department level PhD entrance test of NIT Jalandhar. Mere shortlisting of an applicant does not confirm admission to Ph.D. Programme. The admission shall be solely based upon the performance of individuals during "presentation and interaction" and availability of the Supervisor in the proposed area of research.

ii. The admission to Ph.D. programme (Full-Time/Part-Time) in all disciplines mentioned in this advertisement shall be made purely on the basis of a "presentation" to be made by the shortlisted applicants in their proposed area of research followed by "interaction" to be conducted by the respective Department Admission Committee. Mere shortlisting of an applicant does not confirm admission to Ph.D. Programme.

iii. Shortlisting/eligibility of candidates (other than GATE/NET (JRF/LS)/ UGC (JRF/LS)/GPAT/ Inspire Fellow) shall be done by Departmental Admission Committee for the process of "presentation and interaction" for the applicants. For this purpose, a PhD entrance test shall be conducted by NIT Jalandhar at NIT Jalandhar as per the schedule mentioned in this advertisement. Only those applicants who score marks above the cutoff of 40%, i.e. 24 marks out of 60 for UR category candidates, and 35% i.e. 21 out of 60 for SC/ST/OBC/EWS/PWD candidates in the screening test shall be eligible for presentation and interaction process. Marks obtained in the test shall not be counted for preparation of final merit list of the successful candidates.

iv. The Pattern of Examination shall be as of GATE and NET examination. The Screening Test will be of MCQ Mode.

v. The Department Admission Committee for each Department shall recommend the suitable candidates for admission based on its assessment of presentation and interaction. Marks obtained in the PhD entrance test of NIT Jalandhar shall not be counted for preparation of final merit list of the successful candidates.

vi. Merely shortlisting of an applicant does not confirm admission to Ph.D. programme. The admission shall be solely based upon performance of individuals during "presentation and interaction" and availability of the Supervisor in the proposed area of research. The Department Admission Committee/Institute reserves the right not to recommend any candidate for admission to Ph.D. in the respective Department if the performance of the shortlisted candidates is not found satisfactory during "presentation and interaction". The decision of Department Admission Committee (approved by the competent authority of the Institute) shall be final.

vii. The merit list of the selected candidates (based on presentation & interaction) shall be prepared on marks basis. A candidate who scores less than 40 marks (out of 100) for "presentation & interaction" shall not be considered "qualified" for admission to Ph.D. programme and his/her name shall not be recommended for admission by Departmental Admission Committee. The list of recommended candidates for admission to Ph.D. (Full-Time) programme shall be made in order of merit.

C) Other Issues

i. An applicant is required to apply on different application forms by paying separate fee, in case he/she wants his/her candidature to be considered in more than one Department/program.

ii. Category (UR/EWS/OBC-NCL/SC/ST/PWD) once chosen by the applicant in his/her application form shall not be changed at a later stage.

iii. OBC-NCL/EWS Certificate must have been issued on or after **1st April, 2026** so that the candidates from creamy layer are identified. No certificate issued before this date shall be acceptable.

iv. All the candidates should ensure that they possess the required educational qualification by the last date of submission of the application under this Advertisement.

v. **Certificate Checking:** The certificates (in original) of all the candidates recommended for admission shall be checked by the individual Department before deposition of fee by the candidates.

vi. The candidate (in service) applying for full-time Ph.D. programmes need to apply through proper channel. Any application without "No Objection Certificate" from the employer shall not be considered for shortlisting.

vii. The application without proof of application fee as applicable/self-attested copies of documents/certificates/testimonials shall be rejected and shall not be considered for shortlisting.

viii. Candidates who had completed PhD earlier with any fellowship will be considered for PhD Part-Time or PhD Full Time (Self Sponsored without fellowship).

D) Reservation

The reservation rules will be followed as per Government of India guidelines prevailing at the time of admission.

E) Teaching Assistantship-cum-Scholarships

Eligible candidates for stipend cum teaching assistantship shall be paid as per instructions issued by Ministry of Education (MoE) from time to time as mentioned at B1(ii) above.

(i) No Teaching Assistantship-cum-Scholarships /Scholarship/Fellowship and Contingency grant shall be given to the candidates admitted as under Part-Time Ph.D/sponsored/self-sponsored programme. However, Stipend-cum-Teaching Assistantship/Scholarship/Fellowship and Contingency grant to the candidate working under the Sponsored Projects coordinated by the faculty of the institute shall be given as per the terms and conditions of the project.

(ii) In case, the provisional admission is done under some project grant/financial support from other funding agencies, the relevant rules of the funding agency shall be implemented for the disbursement of stipend/scholarship. No financial assistance shall be given by the Institute in such cases. All other criteria of admission to Ph.D. programmes shall remain same for such candidates.

(iii) Stipend-cum-teaching assistantship for Research Scholars admitted to the appropriate discipline under Institute support shall be started from the date of his/her joining in the Department.

Note: The RS receiving Institute fellowships is required to perform academic duties of 8 hours per week as assigned by the DPGC.

The RS receiving fellowships from any other external funding agency is also required to perform the academic duties as per the norms of the respective funding agencies.

The continuation of the Institute fellowship or its enhancement is subject to satisfactory academic progress and performance of the assigned duties by the RS as per prevailing norms.

F) Important Dates

Sr. No.	Activity	Date
1.	Last date for submission of Applications (Strictly through Online Mode)	**14.12.2026**
2.	Display of list of eligible candidates by the concerned HOD in the Institute website	**15.12.2026**
3.	Written Test (if required, in the respective Department. Reporting time 10.00 AM) (For Part-Time/Self Sponsored without fellowship) **Through offline (Physical) mode only.**	**17.12.2026**
4.	Display of list of candidates eligible for presentation & interaction	**17.12.2026 by 4:00 PM in the respective Departments**
5.	Presentation/interaction by all eligible candidates **Through offline (Physical) mode only**	**18.12.2026**
6.	Display of list of selected candidates	**22.12.2026**
7.	Deposition of fee (Online)	**23.12.2026 to 05.01.2027**
8.	Physical Reporting in the Institute/ Document Verification and Constitution of RACs	**18.01.2027 – 20.01.2027**
9.	Commencement of Classes	**18.01.2027**

All the dates mentioned above are tentative and subject to change at any stage by the competent authority. All the candidates interested in seeking admission are requested to visit the Institute website regularly for updates.

G) It is mandatory for all applicants to fill the preferences of prospective supervisors as per the mandatory requirement for admission to Ph.D. Program in the online application form. The research domain of the Faculties is available on the Institute Website www.nitj.ac.in and the candidates can view the same under the Faculty head on the Institute website.

H) All disputes pertaining to the admissions shall fall within the jurisdiction of Jalandhar only.

I) All admissions will be provisional till these are confirmed subject to medical fitness, payment of all the fees, fulfillment of eligibility conditions, and verifications of certificates by the Academic Section of the Institute.

J) Candidates are advised to go through the fee refund policy of the institute. Fee refund rules/policy of the institute is available here:
https://nitj.ac.in/files/1739170167546-FEE_REFUND_POLICY.pdf

K) Only applications submitted on the website of the institute (www.nitj.ac.in) with supporting documentation will be considered. Hardcopy applications or applications by email will not be considered.

L) The admission for this January, 2027 session and the award of the Ph.D. degree shall be strictly in accordance with the Ordinances and Regulations for PH.D. PROGRAMME 2023approved by the Institute Senate the copy of which are available on https://www.nitj.ac.in/template/index.html?id=64ccc1baf936ec1417f91875?category=newpage

M) For all purposes, the date of commencement of classes will be treated as the Registration Date for all admitted students of this January, 2027 session.

N) In case of any urgent requirements/exigencies the interactions may be conducted through online mode for the deserving candidates. The request in this regard will be taken care by the DPGC of the concerned department.

O) All the admitted candidates shall be governed by the Ph.D. regulations of the Institute and other instructions issued by the Institute time to time.

P) The Institute reserves the right to modify or cancel this Advertisement/any part of this Advertisement at any stage.

-Sd/-
Dean Academic

ANNEXURE-I

Detailed Department Specific Educational Qualifications:
(For Grant of Institute Fellowship conditions mentioned in Section B1(ii) of this advertisement shall apply in all departments)

Bio Technology (Contact Head BT at –hbt@nitj.ac.in for any clarifications)

(a) The Candidate should be B.E./B.Tech and/or M.E./M.Tech in the relevant branches of Engineering/Technology out of which either B.E./B.Tech. or M.E./M.Tech should be in Biotechnology/ Environmental Biotechnology/ Biochemical engineering/ Bioengineering/Bioinformatics/ Environmental engineering/ Chemical Engineering/ Biomedical engineering/ Biological science and Bioengineering/ Computational biology or allied areas.

(b) Apart from above qualification, the Candidate with M.Sc./MS/M.Pharma/MBBS in relevant disciplinewith GATE/NET/GPAT or any other national level test in Biotechnology/Life sciences/Pharmacy/Medicine are also eligible. This changes in basic qualification is only for the purpose of PhD admission.

(c) The candidates with GATE/CSIR/ICMR/DBT/ICAR/UGC NET/GPAT or any other Central Government National Level Test do not require to clear Institute written examination for shortlisting towards "presentation and interaction" session. The admission to the Ph.D. programme shall be solely based upon performance of the individual candidates during "presentation and interaction" and availability of the Supervisor in the proposed area of research.

(d) It is also possible for direct Ph.D admission in case of candidate with B.Tech./B.E./B.S./B.Pharma (4 years) with CGPA of 8.5 and above in a 10 point scale or 80% aggregate from a Centrally Funded Technical Institute. All such candidates must be GATE/CSIR/ICMR/DBT/ICAR/UGC NET/GPAT qualified.

(e) The M.E./M.Tech/M.Pharma candidates without GATE/NET/GPAT or any other Central Government National Level Test need to clear Institute written examination for shortlisting towards "presentation and interaction" session. Once selected based on the "presentation and interaction" session, they can join in Ph.D. (part time) programme without stipend.

Chemical Engineering (Contact Head CH at –hch@nitj.ac.in for any clarifications)

Full Time (with Institute fellowship)*

M.Tech. in Engineering/Technology along with Bachelor's Degree in Engineering/Technology

OR

B.Tech. in Engineering/Technology with CGPA of 8.5 and above on a 10-point scale or 80%aggregate from Centrally Funded Technical Institute (CFTI)

OR

M.Sc. in Sciences with JRF-NET/GATE Score

OR

M.Pharm with GATE/GPAT Score.

Part time*

M.Tech. in Engineering/Technology along with Bachelor's Degree in Engineering/Technology

OR

B.Tech. in Engineering/Technology with CGPA of 8.5 and above on a 10-point scale or 80%aggregate from Centrally Funded Technical Institute (CFTI)

OR

M.Tech in Engineering/Technology

OR

MSc in Sciences

OR

M.Pharm

Self Sponsored*

M.Tech. in Engineering/Technology along with Bachelor's Degree in Engineering/Technology

OR

B.Tech. in Engineering/Technology with CGPA of 8.5 and above on a 10-point scale or 80%aggregate from Centrally Funded Technical Institute (CFTI)

OR

MSC in Sciences

OR

M.Pharm

*Other terms and conditions are as per the Institute norms.

Civil Engineering (Contact Head CE at –hce@nitj.ac.in for any clarifications)

Candidate with GATE in "Civil Engineering"

1. M.E/M.Tech first class in any discipline

OR

2. B.E/B.Tech in Civil Engineering with minimum CGPA of 8.5 and above on a 10-point scale or equivalent in the qualifying exam.

Non-GATE candidates

1. **B.Tech** (Civil Engineering/ Architecture/Agriculture Engineering/ Chemical Engg/Biotechnology/ Mechanical Engg/ Industrial and production Engg/ Energy and Environment Engg/ Computer Engineering/ Artificial Intelligence/ Machine Learning/ Mathematics and Computing/ Remote Sensing/ GIS/ Electronics and Communication Engg/ Instrumentation Engg/ Data Sciences/ Textile Engineering) followed by **M.Tech** in relevant areas.

   OR

2. M.Sc (Physics/Chemistry/Maths/Biotechnology/ Geology/ Earth Sciences/ Water Resources/Water Management/ Environmental Sciences/Biochemistry/ Agriculture/ Soil Sciences) followed by M.Tech in relevant area.

Computer Science and Engineering (Contact Head CSE at –hcs@nitj.ac.in for any clarifications)

Candidate with qualified GATE in "*Computer Science and Information Technology/ Data Science and Artificial Intelligence*"/ UGC NET in Computer Science & Applications

1.M.E./M.Tech. first class in any discipline, with UG Degree with first class

OR

2.*B.E./B.Tech. (in any discipline)/ MCA from a Centrally Funded Technical Institute (CFTI) with minimum CGPA of 8.5 and above on a 10-point scale or equivalent in the qualifying examination.

Non-GATE Candidates

1. M.E./M.Tech first class in any of the disciplines mentioned in annexure I, with merit list prepared on qualifying marks in the test conducted by the Institute.

OR

2.*B.E./B.Tech. in any of the disciplines mentioned in annexure I/MCA from a Centrally Funded Technical

Institute (CFTI) with minimum CGPA of 8.5 and above on a 10-point scale or equivalent in the qualifying examination with merit list prepared on qualifying marks in the in the test conducted by the Institute.

** This will be a direct PhD admission and therefore, PhD course credit requirement will be different.*

Annexure-1

List of B.E./B.Tech. & M.E./ M.Tech Branches
Artificial Intelligence (AI) and Data Science
Artificial Intelligence and Machine Learning
Computer Engineering (Software Engineering)
Computer Science and Applied Mathematics
Computer Science and Biosciences
Computer Science and Business Systems
Computer Science and Design
Computer Science and Engineering (Artificial Intelligence and Machine Learning)
Computer Science and Engineering (Artificial Intelligence)
Computer Science and Engineering (Cyber Security)
Computer Science and Engineering (Data Science)
Computer Science and Engineering (Internet of Things and Cyber Security Including Block Chain Technology)
Computer Science and Engineering (Internet of Things)
Computer Science and Engineering (Networks)
Computer Science and Medical Engineering
Computer Science and Social Sciences
Computer and Communication Engineering
Computer Engineering
Computer Engineering and Application
Computer Networking
Computer Science
Computer Science and Engineering
Computer Science and Information Technology
Computer Science and Systems Engineering
Computer Science and Technology
Computer Technology
Computing in Computing
Computing in Multimedia
Computing in Software
Information and Communication Technology
Information Engineering
Information Science
Information Science and Engineering
Information Technology
Information Technology and Engineering
Software Engineering
Robotics and Artificial Intelligence
Mathematics and Computing
Data Science and Engineering
Computer Science and Engineering (Information Security)
*All other branches within the field of computer science that are equivalent to the aforementioned branches

Electrical Engineering (Contact Head EE at –hee@nitj.ac.in for any clarifications)

Master degree: Applicant must have a Master's degree in a relevant discipline, such as Electrical Engineering including all specializations/Instrumentation and Control (ICE)/ Electronics and Communication Engineering(ECE) /Information Technology(IT) & allied branches

Bachelor's degree: Applicant must have a Bachelor's degree Electrical Engineering (EE) / Electrical and Electronics Engineering (EEE)/ Electronics and Communication Engineering(ECE)/ /Instrumentation and Control Engineering(ICE)/ Computer Science and Engineering (CSE) /Information Technology(IT) & allied branches.

GATE qualified in any discipline

Electronics & Communication Engineering (Contact Head ECE at –hec@nitj.ac.in for any clarifications)

Candidate with GATE in "Electronics and Communication Engineering"

1. B.E./ B. Tech. in any discipline/M.Sc Physics/M.Sc Electronics/M.Sc Mathematics and Computing.

OR

2. ME/M.Tech/MS/M.Tech by Research in ECE, Signal Processing, Electrical Engineering, VLSI Design, IC or any other relevant areas.

Non-GATE Candidates-

1. B.E./B.Tech in any discipline.

And

3. ME/M.Tech/MS/M. Tech by Research in ECE, Signal Processing, Electrical Engineering, VLSI Design, IC or any other relevant areas.

For GATE qualified candidates, following GATE streams will be allowed to appear for interview:

1. ECE
2. EE
3. ICE
4. CSE & IT
5. Maths
6. Physics
7. Data Science & AI

For Non-GATE candidates, following Departments will be allowed to appear for interview:

1. ECE
2. EE
3. ICE
4. CSE
5. IT
6. Maths & Computing
7. M.Sc. (Physics)
8. AI

Information Technology (Contact Head IT at –hit@nitj.ac.in for any clarifications)

(i) Master's degree in Engineering/Technology in the relevant area of research with minimum CGPA of 6.5 on a 10-point scale or equivalent in the qualifying examination. The candidates having B. Tech degree in other than CSE/IT must be GATE qualified in CS/IT/Data Science and Artificial Intelligence discipline or must be NET qualified.

(ii) Bachelor's degree in Engineering/Technology from a Centrally Funding Technical Institutes (CFTI) with minimum CGPA of 7.5 or above on a 10-point scale or equivalent in the qualifying examination. In such cases, the candidates have to fulfil the requirement of minimum of 24 credits of course work.

(iii) MCA with M.Tech. (relevant branch) having minimum CGPA of 6.5 on a 10-point scale having GATE qualified in CS/IT/Data Science and Artificial Intelligence discipline or NET qualified.

OR

(iv) The candidates should have valid JRF(UGC/CSIR) or valid GATE score (CS/IT) and satisfy any one of the following criteria:

a) M.Sc. (CS/IT) with M. Tech (relevant branch) research with minimum CGPA of 6.5 on a 10-point scale or equivalent in the qualifying examination.

b) M.C.A. from CFTI/Top 100 NIRF Institutes in last 2 years with minimum CGPA of 8.5 or above on a 10-point scale or equivalent in the qualifying examination. In such cases, the candidates have to fulfil the requirement of minimum of 24 credits of course work.

Instrumentation and Control Engineering (Contact Head ICE at –hic@nitj.ac.in for any clarifications)

(a) Candidates with ME/MTech or equivalent degree in any discipline having qualified GATE examination in any discipline.

(b) The candidates with four-year Bachelor's degree (BE/BTech or equivalent) in any discipline as qualifying degree must have a valid and qualifying GATE score in any discipline.

(c) The candidate with MSc as qualifying degree in any discipline must have valid and qualifying GATE score or valid CSIR-NET (JRF)/INSPIRE/NBHM-PhD qualification, etc in any discipline.

Industrial and Production Engineering (Contact Head IPE at –hip@nitj.ac.in for any clarifications)

Candidates with M.Tech. in any discipline and MBA in Operations, Supply Chain Management, Information Technology and Business Analytics will be considered eligible for admission in Ph.D. Programme in the department, provided they are willing to undertake research in relevant areas of expertise available in the Department.

Mechanical engineering (Contact Head ME at –hme@nitj.ac.in for any clarifications)

Full Time (with Institute fellowship)

Educational Qualification: M.E/M.Tech in Engineering/Technology along with Bachelor's Degree in Engineering/Technology in any discipline. All such candidates must be GATE qualified in any discipline.

OR

B.E/B.Tech in Engineering/Technology in any discipline with CGPA of 8.5 and above on a 10-point scale or 80% aggregate from Centrally Funded Technical Institute (CFTI). All such candidates must be GATE qualified.

OR

M.Sc in any discipline with CGPA of 8.5 and above on a 10-point scale or 80% aggregate from Centrally Funded Technical Institute (CFTI). All such candidates must be JRF-NET/GATE Score qualified.

(b) Part Time*

Educational Qualification: M.E/M.Tech in Engineering/Technology along with Bachelor's Degree in Engineering/Technology in any discipline.

OR

B.E/B.Tech in Engineering/Technology in any discipline with CGPA of 8.5 and above on a 10-point scale or 80% aggregate from Centrally Funded Technical Institute (CFTI).

OR

M.Sc in any discipline with CGPA of 8.5 and above on a 10-point scale or 80% aggregate from Centrally Funded Technical Institute (CFTI).

* Other terms and conditions as per the Institute norm

Textile Technology (Contact Head TT at –htt@nitj.ac.in for any clarifications)

M.Tech. in Engineering/Technology along with Bachelor's Degree in Engineering/Technology with qualified GATE Score

OR

B.Tech. in Engineering/Technology with CGPA of 8.5 and above on a 10-point scale or 80% aggregate from Centrally Funded Technical Institute (CFTI) with qualified GATE Score

OR

M.Sc. in Textile, Textile Design, Fashion Design/Technology, Clothing Science, Apparel Science/Technology with qualified JRF-NET/GATE Score
OR
MBA with qualified NET Score
*Other terms and conditions as per the Institute norms

Humanities & Management (Contact Head HM at –hhm@nitj.ac.in for any clarifications)

- **Humanities:**
- **Ph.D. (English Literature):** Master's degree in English or English Language Teachingwith at least 60% marks or a CGPA of 6.5 on 10 point-scale.
- **Ph.D. (Linguistics):** Master's degree in Linguistics or English or English LanguageTeaching with at least 60% marks or a CGPA of 6.5 on 10 point-scale.
- **Management:**

Ph.D. (Management): Master's degree in Management or Commerce or Economics or Psychology with at least 60%marks or a CGPA of 6.5 on 10 point scale.

The candidates in Humanities and Management must be NET/GATE qualified and must have a valid score for the award of stipend-cum- teaching assistantship as per Ministry of Education norms and Institute norms.

PHYSICS (Contact Head PH at –hph@nitj.ac.in for any clarifications)

Master's Degree in appropriate branch of Science with a first class or minimum 60% Marks (or CGPA of 6.5on 10 point scale) in the qualifying examination. For getting institute-level Teaching Assistantship-cum-Scholarships, candidates with a Master's degree in science/mathematics/statistics must havevalid and qualifying GATE score or valid CSIR-NET(LS/JRF)/INSPIRE/NBHM-Ph.D. qualification,etc

CHEMISTRY (Contact Head CY at –hcy@nitj.ac.in for any clarifications)

Master's Degree in appropriate branch of Science with a first class or minimum 60% Marks (or CGPA of 6.5 on 10 point scale) in the qualifying examination. For getting institute-level Teaching Assistantship cum-Scholarships, candidates with a Master's degree in science/mathematics/statistics must have valid and qualifying GATE score or valid CSIR-NET(LS/JRF)/INSPIRE/NBHM-Ph.D. qualification, etc

Mathematics & Computing (Contact Head MC at –hma@nitj.ac.in for any clarifications)

Candidates with a valid GATE/NET score in Mathematics/ CSE/IT

(a) BSc first class and MSc first class in Mathematics/Statistics/Mathematics and Computing.

OR

(b) B.E/B.Tech first class and M.E/M.Tech first class in Mathematics and Computing/Computer Science & Engineering/Information Technology/Electronics and Communication Engineering/Mechanical Engineering with minimum CGPA of 6.5 or above on a 10-point scale or equivalent in the qualifying examination or 60% marks.

OR

(c) B.Sc (Computer Science/Information Technology)/BCA first class **and** MCA from Centrally Funded Technical Institute (CFTI) with minimum of 8.5 or above on a 10 point scale or equivalent in the qualifying examination.

OR

(d) BTech in Mathematics and Computing/Computer Science & Engineering/Information

Technology/Electronics and Communication Engineering/Mechanical Engineering, from Centrally Funded Technical Institute (CFTI) with minimum of 8.5 or above on a 10 point scale or equivalent in the qualifying examination.

Non-GATE Candidates

BSc first class and MSc first class in Mathematics/ Statistics/ Mathematics and Computing with merit list prepared based on the test conducted by the Institute.