INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

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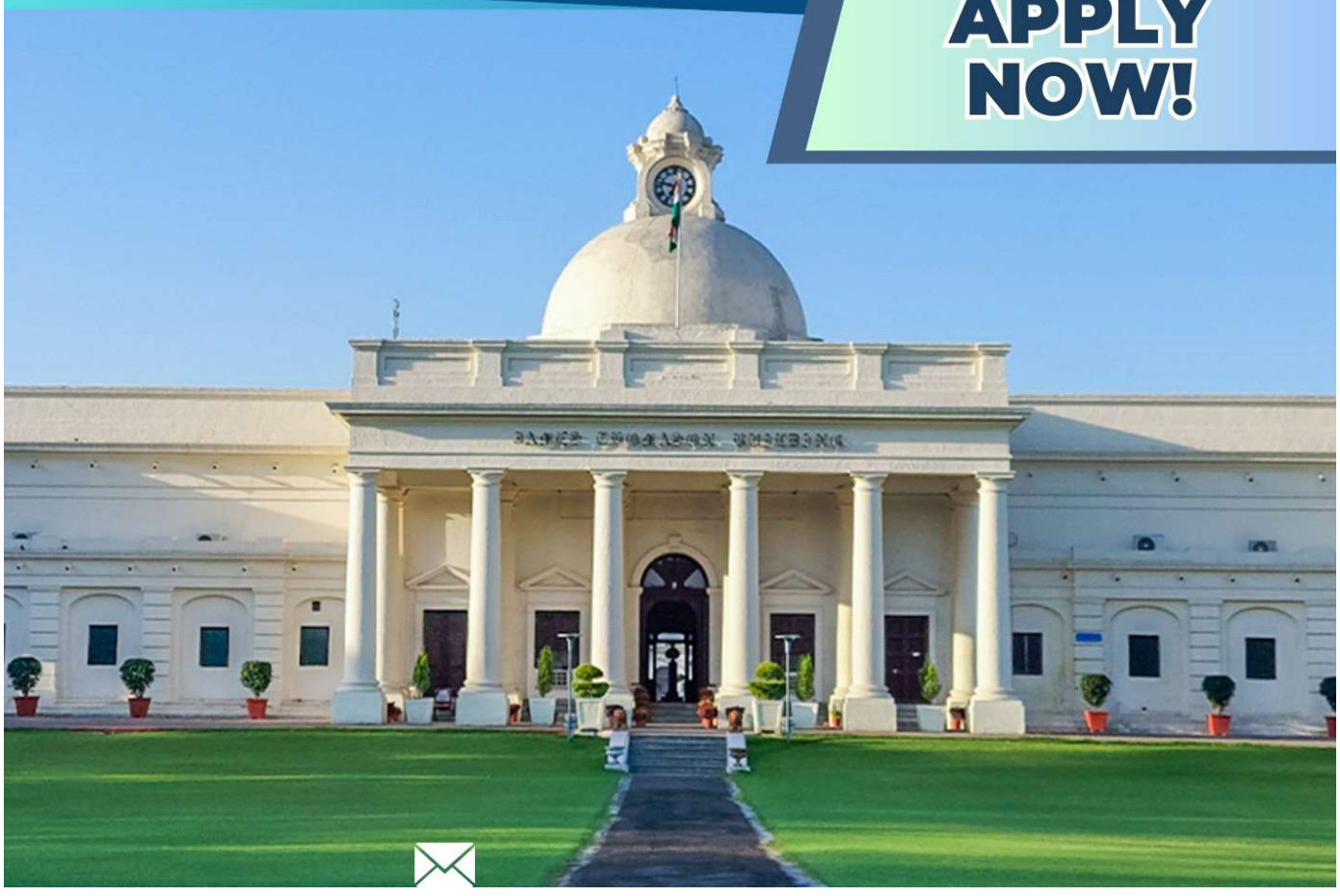
ADMISSION

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01. INTRODUCTION

Indian Institute of Technology Roorkee is one of the foremost institutes of national importance in higher technological and engineering education and basic and applied research. Since its establishment, the Institute has played a vital role in providing the technical manpower and know-how to the country and also in pursuit of cutting-edge research in Science, Technology, and subsequently in Architecture, Management and Humanities & Social Sciences. The Institute ranks amongst the best technological institutions in the world and has contributed to all sectors of technological development. It has also been considered a trend-setter in the area of education and research in the fields mentioned above.

The Institute has completed 175 years of its glorious existence. It was converted into an IIT on September 21, 2001 by an Ordinance issued by the Government of India, which declared it as the nation's seventh Indian Institute of Technology, an "Institution of National Importance".

The Institute offers Bachelor's Degree courses in 12 disciplines of Engineering and Architecture and 6 integrated Masters programmes in different disciplines of engineering and science apart from 58 Postgraduate courses in various disciplines of Engineering, Applied Science, Architecture and Planning, Management, Humanities & Social Sciences, Design and Innovation. The Institute offers doctoral degree in all Departments/Centres/School and Research Centres.

1.1 Location:

IIT Roorkee is situated at the foothill of Himalayas, in Hardwar district, within the state of Uttarakhand. It is the gateway to the pilgrim centres of Haridwar, Rishikesh, and Char Dham (Gangotri, Yamnotri, Badrinath and Kedarnath), and tourist attraction cities like, Dehradun and Mussoorie. Roorkee is well connected to Delhi by rail and road. It is situated on National Highways 58 and 73 and is on Amritsar-Howrah main rail route. Nearest airport to Roorkee is Dehradun's Jolly Grant airport but most preferable airport nearest from Roorkee is the New Delhi International Airport which is about 180 kilometers away.

1.2 Campus:

The Institute has three campuses. The main campus is at Roorkee in Uttarakhand and the second one is 50 km away at Saharanpur and third is the Greater Noida Campus Centre in Uttar Pradesh. The campus at Roorkee is spread over 356 acres of landscaped lush greenery. Nestled within this are several heritage buildings, modern academic departments, nineteen hostels, messes, hospital, school, banks, community centres, indoor and outdoor sports facilities which include three sports stadiums, a modern swimming pool, yoga bhawan, students' clubs and several activity centres and other buildings. The Department of Paper Technology is located in a 25-acre campus at Saharanpur. A 10-acre campus is being developed as an extension centre at Greater Noida.

02. ABOUT DOCTORAL RESEARCH:

Keeping in view the long tradition of academic excellence, the following institutional goals have been laid for doctoral research:

* To develop deep and broad understanding of fundamentals and state of the art of knowledge in the chosen field through courses and self-study,
* To develop synergy between creativity, innovation and the frontiers of knowledge in the chosen field of study,
* To develop ability and skills to carry out independent research and development to face the challenges posed to mankind on specific problems, and
* To develop abilities to identify new possibilities in the given Indian social context and to undertake research and development through one's own initiatives.

The Degree of Doctor of Philosophy is granted for research work in areas recognized by the Academic Departments / Centres / School of the Institute. The research work shall be an original work characterized either by the discovery of facts, or by a fresh approach towards the interpretation and application of facts, or development of equipment making a distinct advancement in instrument technology. It shall evince the candidate's capacity for critical examination and sound judgment and shall represent original contribution to the existing knowledge. The Institute is also recognized as one of the centres in the country for Ph.D. programmes under QIP. Facilities for enrolling for the Ph.D. programme as a part time candidate are also available.

03. IMPORTANT DATES:

S.No	Particular	Date
1.	Start of online Application Process	September 05, 2024
2.	Last date for submission of online application	Till opening of applications for regular Ph.D. admission for Spring Semester 2024-25

Note:

a) Candidates are requested to apply **online only**. Hard copy of the application need not be submitted. Physical application will not be considered.

b) GATE/GPAT/CEED etc. qualified candidates are required to apply through regular advertisement released during Sept/October and March of every year through online portal www.iitr.ac.in .

04. APPLICATION FEE

1. **Application Fee per department (non-refundable): Rs. 500/- for General/Economically Weaker Sections (EWS)/OBC category and Rs. 250/- for SC/ST/PwD category candidate**. The candidates can deposit the requisite application fee by using net banking or debit/credit card facilities only. Additional charges will be applicable as per the rule of the concerned bank. **The Fee will not be accepted through any other mode.**
2. **If candidate opts for more than one Department/Centre/School, then application fee should be paid in accordance to the number of Department/Centre/School.**

05. COMMON MINIMUM ELIGIBILITY CRITERIA

a. Candidates should be recipient of any one fellowship e.g. UGC/CSIR/DBT/DST/Inspire/ ICMR etc.

b. Candidates need to apply within six months (i.e. 180 days) from the declaration of the fellowship result. If the date of fellowship result declaration exceeds more than six months (i.e. 180 days) on the date of submission of Ph.D. application, then such candidates are not eligible under Rolling Advertisement

In addition to the above, an applicant should possess the following minimum qualifications in appropriate areas to be eligible to apply for admission for the Ph.D. programme of the Institute.

An applicant should possess one of the following minimum qualifications in appropriate area(s) and she/he is required to fulfil the Department/ Centre/ School wise minimum educational qualification to be eligible to apply for admission for the Ph.D. programmes of the Institute.

1. Applicants with Master's degree should satisfy the following:
   General, GEN-EWS and OBC category: Minimum Cumulative Grade Point Average (CGPA) of 6.0 on a 10-point scale, or 60% marks.
   SC / ST / PWD category: Minimum Cumulative Grade Point Average (CGPA) of 5.50 on a 10-point scale or 55% marks.

2. Applicants of all categories (GEN/GEN-EWS/OBC/SC/ST/PWD) with 4-Year Bachelor's degree having a minimum CGPA of 7.50 on a 10-point scale or 75% marks.

3. Applicants of all categories (GEN/GEN-EWS/OBC/SC/ST/PWD) with Bachelor's or Master's degree from IITs with a CGPA of 8.0 and above on a 10-point scale.

4. Applicants of all categories (GEN/GEN-EWS/OBC/SC/ST/PWD) with MBBS / BAMS / BHMS / BDS degree from Indian Universities / Institution shall have minimum CGPA of 6.0 on a 10-point scale, or 60% in the qualifying degree.

5. Applicants with Master of Surgery (MS) / Doctor of Medicine (MD) degree from Indian Universities / Institutions are exempted from the minimum CGPA.

6. Candidates pursuing master's programs in Engineering / Architecture / Planning / M.Sc. / M. Des. in IIT Roorkee shall have a choice of lateral entry / switch-over to the Ph.D. program after completing the following:

(i) First three semesters of the Master's program with CGPA 8.0 or above for the candidates of M.Sc. program.
(ii) First two semesters of the master's program with CGPA 8.0 or above for candidates of other master programs.

Note:

(A) CGPA or percentage of marks in aggregate (in case marks are awarded) of all years / semesters will be considered. If the CGPA is awarded on a scale other than a 10-point scale, proportionate conversion to a 10-point scale will be considered.

(B) Candidates with a medicine degree from an overseas university / institute should have qualified the Foreign Medical Graduate Examination, or equivalent conducted by the National Board of Examination.
(C) Candidates with Overseas Citizen of India (OCI) / Person of Indian Origin (PIO) status will be treated at par with Indian Nationals in the General Category.
(D) Candidates selected under DST-INSPIRE scheme may be considered for provisional admission through departmental/centre/school Ph.D. selection procedure. Such candidates shall be required to submit their INSPIRE Fellowship "Final Offer" from the funding agency to the Institute within 18 months from the date of initial joining, failing which their provisional admission shall stand cancelled automatically, without any further consideration.
(E) Candidates under OBC-NC and Economically Weaker Sections (EWS) category are required to submit a copy of valid certificate, issued after 31st March, 2024, while submitting the application, as per GOI issued by a competent authority. Reservation shall be applicable as per the GOI Norms.
(F) For details regarding EWS please go through the link: https://dopt.gov.in/sites/default/files/ewsf28fT.PDF
(G) Institute will not provide any financial assistance at any point of time.
(H) GATE/GPAT etc. qualified candidates are required to apply through regular advertisement released during September/October and March every year through online portal.

06. APPLICATION AND SELECTION PROCESS

(i) Application process for admission to Ph.D. programmes through rolling advertisement will be online.
(ii) Candidate may apply for more than one Department/ Centre/School.
(iii) The department will invite the shortlisted candidates for selection process.
(iv) The selected candidates will be registered for Ph.D. programme in the current semester
(v) Selected candidates will start working as JRF under the assigned faculty member (Ph.D. Thesis supervisor) from the date of admission in the admitting Department. However, the course work will be taken in the next semester, if the admission registration is after the last date for course registration in the current semester.

07. MINIMUM EDUCATIONAL QUALIFICATION IN DIFFERENT DEPARTMENTS/ CENTRES/SCHOOL

A. ROORKEE CAMPUS

1. Department of Architecture & Planning

(i) Bachelor's Degree in Architecture or Planning followed by Master's Degree in any specialization. **(OR)**
(ii) Bachelor's Degree in Civil Engineering followed by Master's Degree in any specialization of Planning. **(OR)**
(iii) B.Arch./ B. Planning.

2. Department of Biosciences and Bioengineering

(i) **Structural and computational Biology:**

- Master's degree in any disciplines of Science.
- Four-year Bachelor's (In any related areas of biological sciences (Biology, Biotechnology, Bioscience or related areas with biology as a subject))/ MBBS.
- Bachelor's / Master's Degree in engineering, Pharmacy and related disciplines.

(ii) **Cell and Molecular Biology:**

- Master's Degree/ Four-year Bachelor's (In any related areas of biological sciences (Biology, Biotechnology, Bioscience or related areas with biology as a subject))/ MBBS.
- Bachelor's / Master's Degree in engineering.
- MD/ MS in Ayurveda, M.Pharm., M.V. Sc.

(iii) **Biological Engineering:**

- B.Tech. (4 years after XII)/ M.Tech. with the condition that applicant should have Mathematics at 12th level.

3. Department of Civil Engineering

(i) Bachelor's degree in Civil Engineering. **(OR)**

(ii) Bachelor's degree in Civil Engineering and Master's degree in research areas relevant to the different groups of the Department (Environmental, Geomatics, Geotechnical, Hydraulics, Structural and Transportation). **(OR)**

(iii) Bachelor's degree in any branch of engineering with Master's degree in relevant research areas of the above groups of Civil Engineering, having mathematics at the Bachelor's level. **(OR)**

(iv) Bachelor's / Master's degree in any branch of engineering but having 8 years of work experience in the research areas relevant to the above groups of the department. **(OR)**

(v) For Geomatics Engineering group, MCA (with mathematics as one of the subjects in Bachelor's level) shall also be eligible for applying.

4. Department of Chemical Engineering

B.Tech./M.Tech. /M.Sc. or equivalent in Chemical Engineering/Chemical Technology/ Allied Disciplines in Engineering and Sciences.

5. Department of Chemistry

M.Sc. or equivalent degree in Chemistry / Physics / Applied Chemistry / Industrial Chemistry / Pharmaceutical Chemistry / Biochemistry or B.Tech. in Polymer Technology / Chemical Science and Technology/Chemical Engineering.
(OR)
BS Degree (4-year) in Chemistry/ Chemical Sciences/ Physics/ Physical Sciences.

6. Department of Computer Science and Engineering

(i) M.E. / M.Tech. in Information Technology/ Computer Science & Engg. / Software Engg. / AI and Data Science or equivalent. **(OR)**

(ii) M.Tech. / ME in Electrical Engineering/ Electronics and Communications Engineering or equivalent. **(OR)**

(iii) B.E. / B.Tech. in Computer Sc. & Engg. / Information Technology Mathematics and Computing or equivalent. **(OR)**

(iv) Five years integrated BS-MS in mathematics and computing or equivalent.

7. Department of Design

(i) M.Des. / M.Tech. / M.Arch. **(OR)**

(ii) Bachelor's degree in Design followed by Master's Degree in any specialization. **(OR)**

(iii) MIM / Master's in Management / MBA or equivalent **(OR)**

(iv) Master's degree in Science / Bachelor Degree in Engineering / Technology / Architecture may be considered for research areas consistent with the academic background and special interests.

8. Department of Electronics and Communication Engineering

(i) M.E. / M.Tech. in Microelectronics / VLSI / Microwaves / Communication Systems / Control Systems / Instrumentation / Circuits & Systems / Computer Science or equivalent. **(OR)**

(ii) B.E. / B.Tech. in Electronics & Communication / Electrical Engg./ Computer Science & Engg. or equivalent. **(OR)**

(iii) M.Sc. in Physics / Instrumentation / Electronics/Computer Science & Engg. or Equivalent.

9. Department of Earthquake Engineering

(i) B.Tech. / M.Tech. or equivalent degree in Civil Engineering/ Earthquake Engineering. **(OR)**

(ii) M.Sc. / M.Tech. in Geophysics/ Physics / Mathematics / Geology for research areas in Engineering Seismology and Seismotectonics.

10. Department of Earth Sciences

M.Sc. / M.Sc.Tech / M.Tech. / MS/ Integrated M.Tech./ Integrated M.Sc. degree in Geology / Geophysics / Applied Geology / Applied Geophysics / Geological Technology / Geophysical Technology / Geosciences / Applied Geosciences / Petroleum Geology / Petroleum Geophysics/ Earth Sciences.

11. Department of Electrical Engineering

(i) B.Tech. / M.Tech. or equivalent degree in Electrical Engineering. **(OR)**

(ii) B.Tech. / M.Tech. or equivalent degree in Electronics and Communication/ Electronics/ Instrumentation/ Electronics and Instrumentation / Instrumentation and Control Engineering. **(OR)**

(iii) Al related specializations including B.Tech. / M.Tech. or equivalent degree in Computer Science/ M.Sc. (Maths)/ M.Sc. (Physics).

12. Department of Humanities and Social Sciences

(i) M.A. or equivalent degree. **(OR)**

(ii) Master's degree in Science/Graduate Degree in Engineering / Technology with 60% marks (or equivalent grade) may be considered for research areas consistent with the academic background and special interests.

13. Department of Hydrology

(i) Master's degree in any of the following or equivalent research areas relevant to the department:

a) Civil Engg. / Agricultural Engg. / Hydrology / Environmental Engg. / Water Resources /Chemical Engg. **(OR)**

b) Geology / Geophysics / Soil Science / Forestry or Natural Resources/ Atmospheric Sciences/ Environmental Sciences/ Disaster Mitigation & Management; with Mathematics at Bachelor's level.

14. Department of Hydro and Renewable Energy

(i) B.Tech. / M. Tech. or equivalent in Civil / Electrical / Mechanical / Industrial / Chemical / Electronics / Computer / Agricultural / Environmental / Biotechnology/Instrumentation Engineering or Equivalent and related disciplines. **(OR)**

(ii) M.Sc. in disciplines consistent with research areas of the department.

15. Department of Management Studies

(i) B.E. / B.Tech. or equivalent, M.E. / M.Tech. or equivalent qualifications. **(OR)**

(ii) M.Sc. / M.A. / M.Com. **(OR)**

(iii) Master's in Management/M.B.A. or equivalent.

16. Department of Mathematics

(i) M.A. / M.Sc. / M.Tech. / Int. M.Sc. (5 years) in Mathematics / Applied Mathematics / Industrial Mathematics / Statistics / Operations Research / Applied Operations Research / Mathematics and Computing or equivalent. **(OR)**

(ii) M. Stat. / M. Math. **(OR)**

(iii) B.Tech. in Maths and Computing / B.S. Maths (4 years) from IITs / IISc.

17. Department of Mechanical & Industrial Engineering

(i) B.Tech. / M.Tech. degree or equivalent degree in Mechanical / Industrial / Production Engg. **(OR)**

(ii) B.Tech. / M.Tech. degree in Aerospace / Chemical / Civil /Computer/Electrical/ Electronics/ Materials/ Metallurgical Engg./ Biotechnology/ Nanotechnology and other research areas consistent with the academic background and special interests.

18. Department of Metallurgical and Materials Engineering

(i) B.Tech./ M.Tech. degree in Metallurgy / Materials Science and Engineering/ Ceramic Engineering/ Polymer Engineering or equivalent. **(OR)**

(ii) B.Tech./ M.Tech. degree in Mechanical Engineering/ Production Engineering/ and allied disciplines. **(OR)**

(iii) B.Tech. / M.Tech. in Biotechnology/ Bioengineering with Mathematics at the undergraduate level. **(OR)**

(iv) M.Sc. in Materials Science/ Physics/ Chemistry and allied streams with Mathematics at the Undergraduate level.

19. Department of Physics

(i) M.Sc. in Physics / Applied Physics or equivalent. **(OR)**

(ii) M.Sc. in Chemistry / Mathematics / Biophysics / Geophysics / Computer Science / Electronics or equivalent, provided Physics was a subject at B.Sc. level. **(OR)**

(iii) B.Tech. in Electrical / Electronics / Chemical / Metallurgical / Nanotechnology / Engineering Physics or equivalent. **(OR)**

(iv) M.Tech. (Solid State Electronics Material), M.Tech. (Photonics), M.Tech. (Nanotechnology), M.Tech. (Applied Optics), M.Tech. (Optoelectronics and Optical Communication) or equivalent. **(OR)**

(v) Integrated M.Sc. in Photonics or equivalent.

20. Department of Water Resources Development & Management

(i) B.E. /B. Tech. /M.E. /M.Tech. in Civil /Agricultural / Environment / Electrical/ Mechanical /Chemical / Computer/ Electronics Engineering /Architecture and Planning or equivalent degree consistent with research areas of the Department. **(OR)**

(ii) M.Sc. Degree in Agricultural Science / Natural (Land and Water) Science / Environmental Science or equivalent consistent with research areas of the Department along with mathematics at bachelor's level.

21. Centre for Transportation Systems (CTRANS)

M.Tech. / M.Arch. / M.Planning / M.Des. / MBA or equivalent degree in Civil Engg. / Mechanical Engg / Industrial Engg. / Production Engg. / Computer Science & Engg. / Chemical Engg. / Infrastructure Systems/ Biotechnology / Architecture / Planning / Urban Engg. / Business Administration /Automobile Engg. / Mechatronics Engg.

22. Institute Instrumentation Centre

(i) M.Sc. in Physics, Applied Physics, Material Science, Chemistry, Electronics & Nanotechnology. M.Sc. in Biological Sciences, Life sciences.

(ii) M.Tech. (CS)/ Biotechnology/Nanotechnology/Material Science or equivalent

(iii) B.Tech. Engineering Physics, EC/CS/ Biotechnology.

23. Centre of Excellence in Disaster Mitigation & Management

(i) M. Tech. in Disaster Mitigation and Management, Civil Engineering, Geomatics Engineering, Mechanical and Industrial Engineering, Chemical Engineering, Computer Science and Engineering, M. Arch. & M.Planning, or equivalent. **(OR)**

(ii) M. Tech. in Geological Technology, Geophysical Technology, Earth System Science and Engineering, Atmospheric-Oceanic Science and Technology,

Biosciences and Bioengineering, or equivalent (with Bachelors in Engineering, or Technology, or Sciences with Mathematics as a subject at least in one semester.) **(OR)**

(iii) M. Sc. in Disaster Management, Geology, Geophysics, Atmospheric and Ocean Sciences, Physics, Mathematics, Environmental Sciences, Biosciences, Biotechnology or equivalent (with Bachelors in Sciences with Mathematics as a subject at least in one semester. **(OR)**

(iv) M.B.A. or M.C.A. (with Bachelors in Engineering, or Technology, or Sciences with Mathematics as a subject at least in one semester.)

24. Centre for Nanotechnology

(i) B.E. / B.Tech. or M.E. / M.Tech. in Nanotechnology / Metallurgy / Chemical / Polymer / Mechanical / Biotechnology / Engineering Physics / Engineering Chemistry / Electronics / Electrical/ Computer Science and Engineering / Civil / Energy / Environmental / Agriculture or equivalent. **(OR)**

(ii) M.Sc. / Int. M.Sc. / M.S. in Science / Engineering, B. Pharm. / M. Pharm. **(OR)**

(iii) MBBS/MD/BDS/MDS or equivalent.

25. Centre for Photonics and Quantum Communication Technology (CPQCT)

(i) M.Tech. in Electronics/Electronics and Communication/Computer Science / Electrical/Photonics/Optoelectronics and Optical Communication/ Applied Optics, or equivalent. **(OR)**

(ii) M.Sc. in Physics / Applied Physics/Electronics/Photonics/Computer Science or equivalent. **(OR)**

(iii) BS-MS in Physics/B.S. (4 years) / Applied Physics or equivalent. **(OR)**

(iv) Integrated M.Sc. in Physics/ Photonics or equivalent. **(OR)**

(v) B.Tech. in Electronics/Electronics and Communication/Computer Science, Electrical/ Engineering Physics or equivalent.

26. International Centre of Excellence for DAMS

(i) Master's degree in Dam Safety and Rehabilitation/ Hydrology/ Water Resources Engineering/ Hydraulics/ Geotechnical Engineering/ Earthquake Engineering/ Geomatics Engineering/ Geology/ Geophysics / Master's in Architecture/ Master's in Planning or Equivalent. **(OR)**

(ii) B. Tech. / M. Tech. in Civil / Mechanical/ Industrial / Production Engineering or equivalent.

27. Centre for Space Science and Technology

(i) Bachelor's degree (4-year)/ Master's degree in Engineering. **(OR)**

(ii) Master's degree in Physics/ Mathematics/ Atmospheric Science/ Space Science/ Economics/ Geology/ Applied Geology/ (or equivalent in Earth Sciences)/ Chemistry or equivalent.

28. Centre for Sustainable Energy

B.Arch. / M.Arch. / B.Plan. / M.Plan. / MURP / B.E. / B.Tech. / M.E. / M.Tech./M.Sc. in any branch of engineering & science.

29. Mehta Family School of Data Science and Artificial Intelligence

(i) M.Tech. / M.E. or equivalent **(OR)**

(ii) Bachelor's Degree in Science/ Mathematics/ Statistics / Operations Research/ Actuarial Science followed by Master's Degree in any specialization. **(OR)**

(iii) MIM/ Masters in Management / M.B.A. /M.Arch. or equivalent with Mathematics/ Statistics at graduation level. **(OR)**

(iv) MBBS followed by M.D./M.S. or equivalent.

B. SAHARANPUR CAMPUS

30. Department of Applied Mathematics and Scientific Computing

(i) M.A. / M.Sc. / Int. M.Sc. (5Years) in Mathematics/ Applied Mathematics/ Industrial Mathematics/ Statistics/ Operations Research/ Mathematics and Computing or equivalent. **(OR)**

(ii) B.E. / B.Tech./ M.E. / M.Tech. in any branch of Engineering / B.S. Maths and Computing (4 years) or equivalent.

31. Department of Paper Technology

(i) M.Sc. /M.S. (Science/Engineering). **(OR)**

(ii) BE / B.Tech. / B.Pharm. / M.E. / M.Tech. / M.Pharm. in any branch of engineering or equivalent.

32. Department of Polymer and Process Engineering

(i) B.E./M.E./B.Tech./B.Pharm./M.Tech./ M.Pharm. in Polymer Science and Engineering / Technology; Chemical Engineering / Technology; Oil / Petroleum / Paint / Ceramics / Leather / Paper/ Packaging Technology; Material Science / Engineering / Technology; Plastics / Rubber / Jute / Textile / Membrane / Engineering / Technology; Mechanical Engineering; Electronics / Instrumentation; Environmental Engineering; Biotechnology; Pharmaceutical Science / Engineering; Biomedical Engineering / Technology; Nano-biotechnology; Nanotechnology / Engineering Physics and Computer Science & Engineering. **(OR)**

(ii) M.Sc. in Chemistry/ Polymer/ Applied/ Industrial Chemistry/ Physics/ Applied Physics/ Electronics/ Materials Science/ Biochemistry.

08. DETAILS OF OPPORTUNITIES FOR Ph.D. STUDENTS

8.1 Prize/ Awards/ Medals

S. No.	Name of Prize/ Award/ Medal	Amount (Rs.)	Criteria
1	Excellence in Doctoral Research Award	2,50,000/-	For outstanding research work in Engineering; Management, Architecture and Humanities; and Science streams. A maximum 5 awards, each of Rs. 50,000, are to be given every year.
2	Prof. V.K. Gupta Memorial Impactful Young Researcher Award	20,000/-	For getting a published/accepted research paper in an international journal of the highest impact factor amongst the research scholars from Department of Chemistry. The period of consideration will be from 1st April to 31st March every year starting from year 2021. In case of more than one eligible candidate, the award will be given to the younger candidate. If the age of candidates is same, then the award will be shared. The recommendation for this award will be obtained from the concerned department. This award will be announced on 6th May every year.
3	A.K. Goel Green Energy Prize and Gold Medal	1,00,000/- & Gold Medal	For significant contribution towards green/renewable energy sector amongst the graduating UG/PG (including Ph.D.) students.
4	Prabha Nayyar Award for Excellence in Time Management	2,50,000/-	For carrying out multiple activities simultaneously and showing significant improvement in some of them without compromising on the others amongst the students completing minimum 2 years at IIT Roorkee. The activities may be as diverse as possible including academic grade points, sports, cultural, hobbies, technical, leadership, social service, etc. A maximum 5 awards, each of Rs. 50,000, are to be given every year.
5	Nayyar Award for Excellence in Communication	1,11,000/-	For the best communication skills amongst III, IV and V year students of UG/IDD programmes and all students of PG programmes. There are total 3 awards, Rs. 50,000/- for the best student; Rs. 30,000/- for the second-best student; and Rs. 20,000/- for the third best student. A fourth award of Rs, 11,000/- can also be given only if a female student is not among the first three.

S. No.	Name of Prize/ Award/ Medal	Amount (Rs.)	Criteria
6	Hari Krishna Mittal Leadership Award for Enhancing Entrepreneurship Culture at IIT Roorkee	20,000/-	For significant contribution towards enhancing the entrepreneurship culture at IIT Roorkee amongst the graduating UG/PG (including Ph.D.) students.
7	Ajit Singh Yadav Memorial Essay Prize	20,000/-	For the best and second-best essay on a general topic in terms of content and writing style that encourages independent thinking and originality amongst the existing students. There are total 2 awards, Rs. 13,000/- for the best essay; and Rs. 7,000/- for the second-best essay.
8	Smt. Lilawati Nayyar Golden Jubilee Scholarship	5,000/-	For the communication skills and merit amongst the UG and PG students of any year and of any branch of engineering.

8.2 Joint Doctoral Degree Programme with Universities outside India

PhD students in consultation with their supervisors have options to enroll in Joint Doctoral Degree Programme. We have agreement with the following universities:

(i) University of Alberta, Canada

(ii) University of Strasbourg, France

(iii) Asian Institute of Technology, Thailand

(iv) Department Specific Joint PhD Program with National Tsing Hua University (NTHU), Taiwan:

NTHU, Taiwan	IIT-Roorkee
College of Semiconductor Research, College of Engineering, including · Department of Materials Science and Engineering, · Department of Industrial Engineering and Engineering Management	· Department of Electronics & Communications Engineering · Department of Physics

PhD students can also convert their Jointly Supervised PhD Proposal to a Joint/Dual Doctoral Degree Programme with **administrative support from willing partner universities not listed here**.
For more details please visit: https://ir.iitr.ac.in/JointDegree

8.3 Prime Minister's Research Fellowship (PMRF)

Ph.D. students get opportunity to apply for the prestigious PMR Fellowship program, through two channels, viz. Direct entry and Lateral entry. Students are strongly encouraged and supported to develop their research proposals for the purpose.

For more details, please follow the link https://iitr.ac.in/Academics/PMRF.html

09. COURSE FEE STRUCTURE

For details of course fee structure, please visit the following link: https://iitr.ac.in/Academics/Institute%20Fees.html . Revised fee structure if any, shall be uploaded accordingly. The fee will be charged each semester as per Institute rules/ norms applicable from time to time. Details can be obtained through e-mail at: aao@iitr.ac.in

Note: In case, the candidate joined the programme in between a semester, the requisite fee as applicable has to be deposited by the candidate. However, the tuition fee will be applicable w.e.f. the semester in which the candidate registers for the required course work.

10. CANCELLATION OF ADMISSION / PROGRAMME

The Institute reserves the right to cancel, at any stage, the admission of a candidate admitted to a programme and is later found that he/she is not entitled, being unqualified or ineligible in accordance with the Regulations in vogue, or suspension/termination of programme. In case of cancellation/withdrawn of admission after registration from programme, refund of fee will not be permissible.

11. MATTERS OF DISPUTE

Disputes, if any, arising out of or relating to any matter whatsoever shall be subject to the exclusive jurisdiction of the Roorkee Courts.

12. RAGGING

Ragging is banned in the Institute and anyone indulging in ragging is likely to be punished appropriately and the punishment may include expulsion from the institution, suspension from the institution or classes for a limited period, or fine with a public apology. The punishment may also take the shape of: (i) withholding of scholarships or other benefits, (ii) debarring from representation in events, (iii) withholding of results, (iv)suspension, rustication or expulsion from hostel or mess, (v) monetary fine etc.

13. INSTRUCTIONS FOR ONLINE APPLICATION & OTHERS

For admission to Ph.D. programmes through Rolling Advertisement in Autumn Semester of the session 2024-25, candidates need to register and fill the application ONLINE only by accessing the website link: https://iitr.ac.in/Academics/Admission%20To%20Doctoral%20Programmes.html

A. Documents

Before applying online, candidates are required to keep the following documents ready for uploading:

S.No.	Particulars	Size
1	Colour photograph (only in JPEG)	Up to 500 KB
2	Signature (only in JPEG)	Upto 500 KB

3	EWS/OBC/SC/ST Category Certificate (PDF) (If applicable)	Upto 5 MB
4	10thCertificate/Marksheet (in single PDF)	Upto 5 MB
5	12thcertificate/Diploma and Marksheet (in single PDF)	Upto 5 MB
6	Bachelor's Degree or Provisional and Consolidated Marksheet/ All marksheets (in single PDF)	Upto 5 MB
7	Master's Degree or Provisional and Consolidated Marksheet/ All marksheets (in single PDF), if applicable	Upto 5 MB
8	JRF score card / Fellowship award letter (in single PDF)	Upto 5 MB

NOTE: If any of the submitted document is password protected, then the application will not be considered for admission.

B. Steps to be followed

Candidates must follow the followings steps while filling online Application Form:

a) Register
b) Login
c) Complete the application
d) Submit

Candidates may download their online submitted application form, completed in all respect, for their own record, if required.

The candidates are advised to read each, and every instruction given in this Information Brochure very carefully before applying Online.

C. Other Information, Terms & Conditions

1. Selection process is purely based on merit. Stipulated dates for a written test and/or interview shall be communicated by the concerned Departments/Centres/ School to the shortlisted candidates. Simultaneously, the dates shall be uploaded in the portal of each Departments/Centres/School.
2. The prescribed qualifications and experience are the minimum required and the mere fact that a candidate possesses the same will not entitle the candidate for being called for an interview.
3. Departments / Centres / School of the Institute reserve the right to restrict the number of candidates to be called for interview to a reasonable number, on the basis of qualifications and/or experience.
4. Provision exists to apply in one or more Departments/Centres/School. Accordingly, a candidate can submit application(s) in one or more departments/centres/school through **single online application.**
5. All entries should be carefully made while applying online. IIT Roorkee will not be responsible for wrong entries. Candidates shall be solely responsible for the correctness and authenticity of the information / documents provided in the online application.

6. Candidates must fill/enter their CGPA or percentage of marks as issued by their institute/college/university. Candidate must not convert their CGPA into percentage and vice-versa.
7. Candidates should complete application in all respect in the admission portal and submit it online only. No correspondence / communication will be entertained for incomplete application.
8. Online application submitted by the candidates shall be considered final and binding. Requests for making correction in the online application shall not be entertained.
9. The last date for submission of online application shall not be extended. Accordingly, no request shall be entertained for accepting the application after the last date.
10. IIT Roorkee will not be responsible for technical error while making the online application / payment of fee. Therefore, candidates are advised to submit their application well in advance without waiting until the last date.
11. Admission will be offered subject to availability of seats, faculty in the Specialization and the Institute Assistantship.
12. Students shall be governed by ordinance/ regulations in vogue.
13. The Institute has the right to cancel, at any stage, the admission of the candidate who is found admitted to a course to which the candidate is not entitled, being unqualified or ineligible in accordance with the rules and regulations in force.
14. Disputes if any, arising out of or relating to any matter whatsoever, concerning the aforesaid shall be subject to the exclusive jurisdiction of Roorkee Court.
15. The Institute reserves the right to verify the antecedents or documents submitted by the candidate at any time during their period of study. In case it is found that the documents submitted by the candidate are not genuine, then his/her admission shall be terminated, and disciplinary / criminal proceedings will be initiated.
16. Merely applying for / being shortlisted / appearing for the interview / written test /or subsequent processes do not imply that a candidate will necessarily be offered admission in IITR. No request for considering the candidature in department, other than in which applied, will be entertained.
17. Candidates are advised to fill their correct and active e-mail addresses in the online application as all correspondence will be made by the Institute through online only. All information regarding Test/ Interview/ subsequent amendments/updates in the advertisement and results will be uploaded on the respective Department's/Centre's/School's/Institute website only. No separate communication will be made. The Institute shall not be responsible for the failure of candidates with respect to visiting the website on any ground.
18. The candidates should ensure that they fulfil all the eligibility conditions as specified. Their admission will be purely provisional subject to confirmation that they satisfy the prescribed eligibility

conditions. Mere issue of call letters to the candidates will not imply that the candidature has been found eligible.

19. After joining, hostel and mess facilities will be provided as per the availability.
20. **All candidates are advised to visit regularly the Institute website for further information.**

For further information, please contact:

Academic Affairs Office (Admissions)
Indian Institute of Technology Roorkee,
ROORKEE-247 667 (Uttarakhand)
Email: phdadmission@iitr.ac.in
Website: www.iitr.ac.in

"IIT Roorkee is committed to nurture and promote diversity and inclusion".

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Annexure-1

Undertaking by the applicants for submission of the required certificates towards admission to Ph.D. Programme 2024-25 through Rolling Advertisement

I……S/o/D/o.....……

R/o (address) ..... want to apply to pursue my study in Ph.D. programme at IIT Roorkee.

I hereby undertake that I will submit the following required documents:

1. ……
2. ……
3. ……

at the time of registration. In case, I fail to submit the required documents within the due date, or found ineligible or information/certificate found incorrect/false at any stage, the Institute reserves the right to cancel my admission offer and registration.

Signature of the Applicant:……

Name of Applicant: ……

Email:……