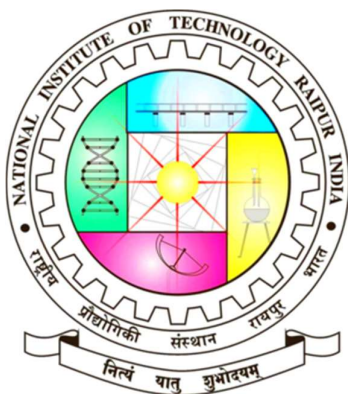


# National Institute of Technology Raipur



## Information Bulletin Ph.D. Admission (SPRING 2025) (To commence from Jan-Feb 2025)

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# राष्ट्रीय प्रौद्योगिकी संस्थान रायपुर NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR

(An Institute of National Importance)

Under Ministry of Education, Govt. of India

GE Road, Raipur PIN: 492010, Chhattisgarh

Web: [www.nitr.ac.in](http://www.nitr.ac.in), Phone : 0771-2254200

Date: 01.11.2024

## Ph. D. admissions for academic year 2024-2025 (SPRING 2025)

Applications are invited for Ph.D. Admissions in (Full time/Sponsored/Self-Financed/Part time categories) for SPRING 2025 (to commence from Jan-Feb 2025) in Departments of Applied Geology, Architecture, Bio Medical Engineering, Bio-Technology, Chemical Engineering, Chemistry, Civil Engineering, Computer Applications (MCA), Computer Science and Engineering, Electrical Engineering, Electronics and Communication Engineering, Humanities and Social Sciences, Information Technology, Mathematics, Mechanical Engineering, Metallurgical and Materials Engineering, Mining Engineering and Physics. The details of specialization and research domains offered by these departments can be obtained from Annexure I of this bulletin.

### How to Apply:

The relevant information is available in this detailed information bulletin and the candidates are required to read the bulletin carefully before applying.

Interested candidates need to fill the online application form at <https://phdadmission.nitr.ac.in/> and pay the **non-refundable** application processing fee online through the same portal.

**Last date of online applications is 28.11.2024, 05.00 pm.**

**Candidates are advised to make the payment and fill the application well before the last date to avoid the last-minute rush and failure of online payment due to congestion and payment gateway failure on 28.11.2024. Incomplete forms, and/or forms without payment and/or late submissions shall be rejected.**

*\*Application processing fee (non-refundable):*

**Non-refundable** application processing fee of Rs. 1000/- for OC, OBC and EWS category applicant & Rs. 500/- for SC/ST/PH candidates. In case, an applicant wishes to apply in more than one department, then, separate applications along with the requisite fee for each department shall have to be submitted. Kindly note that request for consideration of wrongly filled/incomplete/improperly submitted applications shall not be considered/accepted. Request for refund of excess payment made due to repeated transactions arising from bank server/link failure may be considered. For all other cases, the APPLICATION PROCESSING FEE is NON-REFUNDABLE.

*Note: All information including (i) the list of applications received (within the stipulated date), (ii) schedule of written exam, (iii) declaration of list of eligible candidates for direct interview, (iv) list of candidates to appear in written entrance examination, (v) dates of interview, (vi) list of candidates called for interview and the (vii) list of selected candidates, etc. shall be displayed on the Institute website [www.nitr.ac.in](http://www.nitr.ac.in) and no intimation shall be sent to the candidates individually.*

*The tentative dates of declaring the list of candidates to be called for written examinations and interviews shall be 05.12.2024 and the written examinations and interviews shall be tentatively conducted between 17<sup>th</sup> December 2024 to 21<sup>st</sup> December 2024. The candidates are advised to visit Institute website regularly for further updates.*

Registrar  
NIT Raipur





**Ph. D. admissions for academic year 2024-2025 (SPRING 2025)**

Applications are invited for Ph.D. Admissions in (Full time/Sponsored/Self-Financed/Part time categories) for SPRING 2025 (to commence from Jan-Feb 2025) in Departments of Applied Geology, Architecture, Biomedical Engineering, Biotechnology, Chemical Engineering, Chemistry, Civil Engineering, Computer Application (CA), Computer Science and Engineering, Electrical Engineering, Electronics and Communication Engineering, Humanities and Social Sciences, Information Technology, Mathematics, Mechanical Engineering, Metallurgical and Materials Engineering, Mining Engineering and Physics with specialization and offered area of research as mentioned in Annexure I.

Relevant certificate formats pertaining to sponsorship, NoC, relaxation against category as per GoI norms etc. are given in Annexure II. Number of seats available department-wise under Full-Time Fellowship/Scholarship is given in Annexure III. Sponsored/Self-Financed/Part time seats are in addition to these depending upon the suitability of the candidate and availability of specialization and Supervisor in the department. The concerned department shall judge suitability of the candidate for pursuing Ph.D. in particular discipline based on his/her specialization in Master's level. Decision of the Institute shall be final in this regard.

**1. Eligibility for Ph.D. Admissions**

**1.1 Educational Qualifications:**

A Master's degree in Engineering/Technology/Science/Management/ Humanities and Social Science, Architecture/ Planning or any other equivalent qualification recognized by the institute. Minimum requirement of percentage/CGPA in qualifying degree:

Minimum 60% marks or 6.5/10 CGPA/CPI at Master's degree is essential for admission in Ph.D. program of the Institute. However, a relaxation of 5% marks from 60% to 55% and from 6.5/10 CPI (CGPA) to 6.0/10 CPI (CGPA) may be allowed for those candidates belonging to SC, ST, OBC (Non-Creamy Layer), Differently Abled and those who had obtained their master's degree prior to 19.09.1991.

Candidates, who have appeared in their qualifying exam and are awaiting result, can also apply. Their candidature, however, shall be subject to meeting the eligibility criterion at the time of interview. Last date of submission of qualifying degree result (that ascertains the eligibility criterion), if shortlisted for the interview, shall be the date of interview.

**1.2 Other Conditions**

There is no age limit for the applicant.

Prospective candidate should apply for full time/sponsored/self-financed/part time candidature online at <https://phdadmission.nitr.ac.in/> on or before due date and time in the online application portal. The choice of candidature, once exercised, will not be changed. The Ph.D. Ordinance of NIT Raipur defines the student status as per Regulation R.o (Page no. 5) and is partly reproduced here (for the sake of clarity for the prospective candidates before they apply for full time/sponsored/self-financed/part time candidature) and is as follows:

**R.o.1 Full Time Research Candidate**

R.o.1.1 Institute Research Student/Candidate: getting institutional fellowship/scholarship.

- R.o.1.2 Government/Semi-Government Fellowship awardee: by QIP/CSIR/DST/UGC/DRDO/AICTE/DAE etc.
- R.o.1.3 Sponsored Students/Candidates: being an employee of a public sector undertaking, Government department, Defence organization, Research and development organization, a private industry/institution (approved by the concerned faculty) or an educational institution (sponsored by his/her employee with their normal salary and allowances and are relieved for a period of not less than three years for pursuing Ph.D. Program). The candidates under sponsored category should have minimum working experience of two years in the relevant field.  
Candidates selected under this category must submit Form I (Page 25 of Ph.D. Ordinance and made available with the advertisement, Annexure II a).
- R.o.1.4 Sponsored from industries under bilateral agreement with the institute.  
Candidates selected under this category must submit Form I (Page 25 of Ph.D. Ordinance and made available with the advertisement, Annexure II a).
- R.o.1.5 Self-financed (Indian/Foreign)/Study leave/college teacher.  
Indian: This category refers to the persons with experience and good academic record to join the doctoral program in their personal capacity.  
Foreign: These students are admitted through embassy of the foreign government after getting approval from the ministry of external affairs and NOC from Ministry of Human Resource Development or Department of Education, Government of India or admitted under MoU with NIT Raipur.

## **R.o.2 Part Time Research Candidate**

- R.o.2.1 Institute Faculty/ Staff: those who are permanent employees of the Institute.
- R.o.2.2 Project Staff: those who are working on various projects undertaken by the institute where Ph.D. registration is not a requirement but are admitted to Ph.D. program.
- R.o.2.3 Research Scholar of other institution/organization: working on a part-time basis shall normally carry out research work at NIT Raipur under the supervision of a guide and not co-guide at NIT Raipur.
- R.o.2.4 External Candidates: Who are working in other public/private sector organizations or research laboratories having R&D facilities and will normally carry out part or all of one's research work there only under supervision of a co-guide employed in the same organization and a guide/Supervisor at NIT Raipur.

Candidates applying under Part-time category shall have to produce NoC from their employer (in the format of Form II given at page 26 of Ph.D. ordinance and made available with the advertisement, Annexure II b). During initial registration, in case of non-availability of NoC or delay in submission of NoC, the candidate will have to submit an undertaking to produce the NoC as per the given format within a stipulated date (declared by the Office of Dean Academics for such cases). Till the stipulated date, the registration of the candidate will be treated conditional and may be cancelled if the candidate fails to submit his/her NoC as per the given format by the stipulated date or such other date as decided by the Institute. Kindly note that, as per the PhD ordinance, part time PhD scholars must maintain minimum 30 contact days per semester with the supervisor in the institute, till thesis submission and such scholars must obtain permission to this effect from their parent organization (mentioned in NoC). Candidates selected under R.o.2.4 (as External Candidates) shall have to submit Form III (Page 29 of Ph.D. Ordinance and made available with the advertisement, Annexure II c). Candidates are advised to refer the Institute's Ph.D. ordinance available in the institute website to ensure their eligibility for full time/sponsored/self-financed/part time category. ([Link to the Institute PhD Ordinance](#))

## **2. Selection Process**

- 2.1 Selection of candidates for Ph.D. program will be made based on candidate's performance in the objective type (MCQ based) entrance examination and in the Interview.

2.2 The minimum eligibility criteria to appear in the interview will be:

2.2.1 Cut-off Marks:

- a) For OC/OBC/EWS, a cut-off mark is set at 50% of the maximum marks scored in the written examination of a department.
- b) For SC/ST/PH, a cut-off mark is set at 45% of the maximum marks scored in the written examination of a department.

Those candidates who have scored the mentioned minimum marks (or more) shall only be eligible to be called for the interview.

2.2.2 The Institute reserves the right to restrict the number of candidates (found eligible as per 2.2.1 above) to appear in the interview as per the number of seats available category-wise in each department vis-à-vis performance of the candidate in the written examination.

2.2.3 The candidates, thus found eligible (as per point 2.2.1 and 2.2.2 mentioned above), will have to appear in a personal interview in the respective department.

2.2.4 The category-wise merit list depending on the performance of candidates in written examination and interview for each department will, then, be published.

2.3 UGC/CSIR (JRF)/NET/Teacher fellowship holder/ M. Phil. qualified candidates may avail waiver from appearing in written entrance examination. Such candidates shall be called directly for interview subject to their eligibility.

Please note that UGC Teacher Fellowship holders/M. Phil. candidates will become eligible for institute fellowship only if they appear and pass in the written entrance test and interview.

Eligible candidates, who are regular faculty and staff member of NIT Raipur having successfully completed their probation period, need not appear in written entrance examination.

Other than these, remaining candidates who are found eligible after the scrutiny of the applications shall have to appear in a written entrance examination.

### 3. Reservation and Scholarship Details

Reservation for SC/ST/OBC/EWS and differently abled persons will be followed as per GoI norms for award of Full-Time Fellowship/Scholarship (as mentioned in Section 1.2, subsection, R.O.1.1 of Institute PhD Ordinance). The respective candidates are instructed to submit their certificates as per the formats provided in Annexure II (d-j). The OBC (NCL) and EWS certificate must have been issued after 01.04.2024.

If a suitable/eligible Open-EWS candidates is not found in a department, then the Open-EWS seats shall be converted to Open category.

If seat(s) is/are remaining vacant after due process in any category in any branch for want of eligible candidates, then the same seat(s) may be transferred in the respective category in those departments where the eligible candidate(s) in the same category is/are available.

Number of seats for Sponsored/Self-Financed/Part time candidates are not fixed. Hence preference will be given to OBC/SC/ST/PH candidates over OC (General) candidates, in the respective category, if all other criteria remain the same.

#### 3.1 Scholarship

Details of the department-wise vacancies, only under the category of full-time research scholar with Institute Fellowship/Scholarship as per regulation R.O.1.1 of Ph.D. ordinance, is provided in Annexure III. The award of scholarship/fellowship to full time (as per regulation R.O.1.1 of Ph.D. ordinance) will be made only to those eligible candidates who have qualified both, in written entrance examination as well as the interview, and shall be applicable as per GoI/MHRD norms.

**4 Date of Written Examination and Interview**

The list of candidates eligible to appear in the written entrance examination, dates of written entrance examination, list of shortlisted candidates for interviews, dates of interviews and result will be displayed in the institute website [www.nitr.ac.in](http://www.nitr.ac.in) and no intimation will be sent to the candidates by post or individual mail. The candidates are advised to visit Institute website regularly.

**5 Document Verification**

The candidates, shortlisted to appear in the interviews, will have to submit an undertaking (available at the department) at the time of appearing in the interview stating that “If any information furnished in this application is proved wrong at any stage, then the application/candidature may be rejected and the admission, if offered/granted may be cancelled and the sole responsibility of the same will be of that of the Candidate”.

In case, a candidate's claim cannot be verified due to lack of proofs (original documents) or otherwise, his/her candidature will be terminated, and such candidates will not be allowed to take part in further process.



**Research expertise available and department-wise area of research offered (but not restricted to)  
for Session 2024-25**

**Kindly refer to the department website for further details**

S. No.	Department	Broad Research Area offered
01.	Applied Geology	Structural Geology, Petrology, Mineralogy and Geochemistry, Hydrogeology, Application of RS & GIS in water resource development & management, Hyperspectral remote sensing application in mineral exploration, subsidence monitoring of coal mines using microwave remote sensing, Oil-spill Detection using Remote Sensing and Lunar Mapping using Chandrayaan data.
02.	Architecture & Planning	Space Syntax Analysis, History of Architecture, Town Planning, Intelligent tall building, Prefabricated Construction, Energy Efficient Housing, Climate Responsive Architecture, Tourism Planning, Vernacular Architecture, Efficient & Solar Passive Architecture, Sustainable architecture and Settlements, Environmental Planning & Management, Building Materials & Construction, Performance of Building Envelope, Thermal Comforts in Built Environment, Daylight in Built Environment, Urban Mobility, Housing and Dynamics, Urban Informatics.
03.	Biomedical Engineering	Computational neuroscience, Medical Image Processing, Machine Learning, Deep Learning, Health informatics, Biomedical signal processing. Tissue engineering, Microfluidics, Cognitive Neuroscience. Medical devices, Machine learning, Tomography, Inverse problem. Biomechanics. Medical Instrumentation, Experimental biomechanics, Bio-photonics, medical device development.
04.	Biotechnology	Plasmonic Biomaterials, Bioplastic materials, Sustainable biomaterial, Microbiology, Drug development, Drug design, Environmental remediation, Bioinformatics, Drug delivery, antimicrobial resistance, Nanomaterials for environmental application, Microbial electrochemical technology, Antibiofilm study, Bio-Nanotechnology & Biosensors.
05.	Chemistry	Synthesis, Characterization and Application of Nanomaterials and Polymer Nanocomposites. Environmental Analytical Chemistry, Nanoscience, Microextraction of drugs, Lanthanide Composite Materials, Optoelectronic Materials. (Antidepressants), nanomaterials, Inorganic Chemistry, Carbon dot and Application, Bio-Adsorption. Inorganic-organic hybrids, conducting polymers for supercapacitor application. Crystal Engineering of Coordination Polymers/MOFs and their Derived Materials for Energy Storage and Environmental Remedial Applications.
06.	Chemical Engineering	Nano Technology, Electrochemistry, Membrane Technology, advanced oxidation Processes, Environmental Engineering, Reaction Engineering, Sensors, Catalysis, Industrial effluent treatment, Food science engineering, Process intensification, CFD, Modelling, Vapor-Liquid equilibrium studies, Nanocomposite., Reactive Extraction, Biotechnology and Bioprocess engineering, Surface engineering, Rechargeable Battery, Environmental Chemistry, Environmental Science, Waste to Value added products, Capacitive deionization, Supercapacitors, Desalination, Lignin valorization, polymers and polymeric composites, Air pollution, Synthesis of aroma compounds, Hydrogen Energy, Photocatalysis, Solar, Biomass and other Renewable Energy, Edible films & Coatings.
07.	Civil Engineering	Environmental engineering, Air pollution monitoring, and modelling, water and waste-water treatment, pollution control, waste-water treatment, Structural engineering, Earthquake resistant design, Hazard analysis, soil structural interaction, Performance evaluation of Pavements, manufacturing, of aggregates, water resources planning & management, Hydro-informatics & climate change, Geotechnical & Geo environmental engineering, concrete technology, Pavement analysis & design, regional transport planning, RS & GIS applications, UAV Applications with AI, DL, ML and IoT.
08.	Computer Application	Parallel Processing, AI & Machine Learning, SDN. Cloud Computing, Internet of Things, Web Engineering. Internet of Things, Cloud Computing, Decision Support. Information Security, Cyber Security, Blockchain Technology, IoT Security, MANET, Wireless Sensor Network. Swarm Intelligence Techniques, Evolutionary Algorithm and other metaheuristic techniques for combinatorial optimization problems. Information Security, Multimedia Security, Cyber Physical Systems, Cyber Security, Adversarial Machine Learning. Parallel and Distributed Computing, Wireless Sensor Network, Surveillance with drones, Area Coverage Problem, Distributed Algorithm Wireless Network, Machine Learning, Deep Learning and Computer Vision.
09.	Computer Sci. & Engineering	Data analytics, Distributed computing & communication Networks, AI & Machine learning based cloud, edge, fog & IoT computing, Deep learning, software engineering, Image processing, Blockchain Technology, Security in cloud computing, Intrusion detection. Graph Mining, and Quantum Machine Learning, Cyber Security Digital Forensics Internet of Things (IoT). Visual Cryptography, Secret Sharing, Multimedia Security, Software-defined Networking (SDN), Game Theory, Cyber-physical Systems (CPS).

**Research expertise available and department-wise area of research offered (but not restricted to)  
for Session 2024-25**

**Kindly refer to the department website for further details**

S. No.	Department	Broad Research Area offered
10.	Electrical Engineering	Biomedical Instrumentation, Medical Signal and Image Processing, Deep Learning Application in Power System, Speech Signal Processing, Biometrics. Cyber physical System, Central System for renewable energy source integration. Power system: smart Grid, Micro grid, Energy management, cyber security, Var watt Control etc. Protection of micro grid/smart grid. FACTS, HVDC/MTDC transmission system, AI applications in power system. Application of Signal Processing Techniques for Power System Protection. Model order reduction, Interval system controller designing. Power Electronics and its application to EV, PV, Power quality, Renewable Energy Applications, and IoT applications. High voltage Engineering. Optical sensors and instrumentation, Motor drives.
11.	Electronics & Communication Engineering	System design, image processing, computer & communication networks, distributed processing, Semiconductor Devices and VLSI , Wireless Sensor Network, Artificial Intelligence, Application of Machine Learning in internet of things (IoT)., Cryptography, High-performance Architectures, Hardware Security, FPGA-based Designs , Free Space Optics, Fiber Optics, Non-linear Optics, IsOWC system design, Optical Signal Processing, Machine learning, Deep learning for wireless communication, Signal processing, Computer Vision, Multimedia Security , Signal Processing, Metaheuristic Optimization, Soft Computing, System Identification, Filter Design , Antenna & Microwave Engineering, Microstrip & Dielectric Resonator Antennas , Silicon and thinfilm solar cells, semiconductor optoelectronic devices. MEMS and Nano-electronic Devices, Wideband semiconductor devices (GaN/SiC).
12.	Humanities & Social Sciences	Indian Writing in English, Regional Literature, Translation Studies; Social change and mobility, Human Rights; Sociolinguistics and Psycholinguistics.
13.	Information Technology	Data Science, Computer Network and wireless communication, Software engineering, Computer graphics, Security & Cryptography, Data mining and Machine learning, Distributed systems and Algorithms, Image and Video processing, Computer vision, Bioinformatics, Block chain, Internet of things, Big data processing, Cloud / Fog computing, Energy Informatics, Artificial Intelligence, Computational Intelligence techniques, Affective computing, Medical Imaging, Natural language processing, Biometrics, speech processing, Human computer interaction Visual surveillance, Medical image analysis, etc.
14.	Mathematics	Fluid Dynamics, Applied Cryptography, Image Encryption, Mathematical Modelling, Mathematical Ecology, Mathematical Biology, Eco-epidemiological Modelling, Disease Dynamics, Population dynamics, Nonlinear Dynamics and Chaos Theory, Differential Equations, Algebra.
15.	Mechanical Engineering	Thermal engineering, Computational Fluid Dynamics, Heat transfer and Vibration analysis, Structural Mechanics, Solid mechanics for composite structure, computational mechanics, Smart material, Tribology, Production Engineering, Welding Technology, Industrial engineering, Supply chain management, Production and operation management, Robotics, Biomechanics, Nature Inspired Design, Physics Inspired Neural Network and its applications, etc.
16.	Metallurgical & Materials Engineering	Additive manufacturing, metal foam, liquid metal engineering, aluminum alloy casting, steel microstructure & digital metallography, thin film, sensor, FSW, Coating, Composite materials, lead free solder alloy, corrosion of metals, and alloys, Heat and alloy design, centrifugal castings, welding and joining of alloys, functionally graded materials.
17.	Mining Engineering	Rock Excavation, Blasting, Strata Control, Machine Learning
18.	Physics	Materials Science (Core shell QDS), Optoelectronics, Condensed matter Physics (Theory & Experiment), Semiconductor QDs.

Annexure II,  
Certificate format for EWS

**INCOME & ASSET CERTIFICATE TO BE PRODUCED BY ECONOMICALLY WEAKER SECTIONS**

Government of .....

(Name & Address of the authority issuing the certificate)

**[This certificate MUST have been issued on or after 1<sup>st</sup> April 2024]**

Certificate No. \_\_\_\_\_

Date: \_\_\_\_\_

VALID FOR THE YEAR \_\_\_\_\_

**1. This is to certify that Shri/Smt./Kumari \_\_\_\_\_, son/daughter/wife of \_\_\_\_\_ permanent resident of \_\_\_\_\_, Village/Street \_\_\_\_\_ Post Office \_\_\_\_\_ District in the State/Union Territory \_\_\_\_\_ Pin Code \_\_\_\_\_ whose photograph is attested below belongs to Economically Weaker Sections, since the gross annual income\* of his/her family\*\* is below Rs. 8 lakh (Rupees Eight Lakh only) for the financial year \_\_\_\_\_. His/her family does not own or possess any of the following assets\*\*\*:**

- I. 5 acres of agricultural land and above;
- II. Residential flat of 1000 sq. ft. and above;
- III. Residential plot of 100 sq. yards and above in notified municipalities;
- IV. Residential plot of 200 sq. yards and above in areas other than the notified municipalities.

**2. Shri/Smt./Kumari \_\_\_\_\_ belongs to the \_\_\_\_\_ caste which is not recognized as a Scheduled Caste, Scheduled Tribe and Other Backward Classes (Central List)s**

Signature with seal of Office \_\_\_\_\_

Name \_\_\_\_\_

Designation \_\_\_\_\_

Recent Passport size  
attested photograph  
of the applicant

**The income and assets of the families as mentioned would be required to be certified by an officer not below the rank of Tehsildar in the States/UTs.**

Note:

\* Income covered all sources i.e. salary, agriculture, business, profession, etc.

\*\* The term 'Family' for this purpose includes the person, who seeks benefit of reservation, his/her parents and siblings below the age of 18 years as also his/her spouse and children below the age of 18 years.

\*\*\* The property held by a 'Family' in different locations or different places/cities have been clubbed while applying the land or property holding test to determine EWS status.

**FORMAT FOR SC/ST CERTIFICATE**

A candidate who claims to belong to one of the Scheduled Castes or the Scheduled Tribes should submit in support of his claim an attested/self-certified copy of a certificate in the form given below, from the District Officer or the Sub-Divisional Officer or any other officer as indicated below of the District in which his parents (or surviving parent) ordinarily reside who has been designated by the State Government concerned as competent to issue such a certificate. If both his parents are dead, the officer signing the certificate should be of the district in which the candidate himself ordinarily resides otherwise than for the purpose of his own education. Wherever photograph is an integral part of the certificate, NIT Raipur would accept only attested/self-certified photocopies of such certificates and not any other copy.

Candidates from Maharashtra state must also produce the caste-validity certificate from competent authority.

**This is to certify that Shri/Shrimati/Kumari\*** \_\_\_\_\_

son/daughter of \_\_\_\_\_

of village/town/\* \_\_\_\_\_ in

District/Division\* \_\_\_\_\_ of the State/Union Territory\* \_\_\_\_\_

belongs to the \_\_\_\_\_ Caste/Tribe\* which is recognized as a Scheduled Caste

[SC]\*

/ Scheduled Tribes [ST]\* under:

**The Constitution (Scheduled Castes) Order, 1950**

**The Constitution (Scheduled Tribes) Order, 1950**

**The Constitution (Scheduled Castes) Union Territories Order, 1951**

**The Constitution (Scheduled Tribes) Union Territories Order, 1951**

As amended by the Scheduled Castes and Scheduled Tribes Lists (Modification) Order, 1956, the Bombay Reorganization Act, 1960 & the Punjab Reorganization Act, 1966, the State of Himachal Pradesh Act 1970, the North-Eastern Area (Reorganization) Act, 1971 and the Scheduled Castes and Scheduled Tribes Order (Amendment) Act, 1976. [%]

The Constitution (Jammu & Kashmir) Scheduled Castes Order, 1956. The Constitution (Andaman and Nicobar Islands) Scheduled Tribes Order, 1959 as amended by the Scheduled Castes and Scheduled Tribes Order (Amendment Act), 1976. The Constitution (Dadra and Nagar Haveli) Scheduled Castes Order, 1962. The Constitution (Dadra and Nagar Haveli) Scheduled Tribes Order 1962\*\*. The Constitution (Pondicherry) Scheduled Castes Order, 1964\*\*. The Constitution (Scheduled Tribes) (Uttar Pradesh) Order, 1967\*\*. The Constitution (Goa, Daman & Diu) Scheduled Castes Order, 1968\*\*. The Constitution (Goa, Daman & Diu) Scheduled Tribes Order, 1968\*\*. The Constitution (Nagaland) Scheduled Tribes Order, 1970\*\*. The Constitution (Sikkim) Scheduled Castes Order, 1978\*\*. [%]

The Constitution (Sikkim) Scheduled Tribes Order, 1978\*\*. The Constitution (Jammu & Kashmir) Scheduled Tribes Order 1989\*\*. The Constitution (SC) Orders (Amendment) Act, 1990\*\*. The Constitution (ST) Orders (Amendment) Ordinance, 1991\*\*. The Constitution (ST) Orders (Second Amendment) Act, 1991\*\*. The Constitution (ST) orders (Amendment) Ordinance, 1996. The Scheduled Caste and Scheduled Tribe Orders (Amendment) Act. 2002. The Constitution (Scheduled Caste) Orders (Amendment) Act, 2002. The Constitution (Scheduled Caste and Scheduled Tribe) Orders (Amendment) Act, 2002. The Constitution (Scheduled Caste) Order (Amendment) Act, 2007. [%]

2. Applicable in the case of Scheduled Castes, Scheduled Tribes persons who have migrated from one State/Union Territory Administration.

This certificate is issued on the basis of the Scheduled Castes / Scheduled Tribes certificate issued to Shri/Shrimati \_\_\_\_\_, Father/Mother of Shri/Srimati/Kumari\* \_\_\_\_\_ of village/town\* \_\_\_\_\_ in the District/Division\* \_\_\_\_\_ of the State/Union Territory\* \_\_\_\_\_, who belong to the \_\_\_\_\_ Caste/Tribe\* which is recognized as a Scheduled Caste\* / Scheduled Tribe\* in the State/Union Territory\* issued by the \_\_\_\_\_ dated \_\_\_\_\_. %

3. Shri/Shrimati/Kumari\* \_\_\_\_\_ and/or\* his/her\* family ordinarily reside(s) in the village/town\* \_\_\_\_\_ of \_\_\_\_\_ District/Division\* of the State/Union Territory of \_\_\_\_\_.

Place \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

Designation \_\_\_\_\_

(with seal of office)

\* Please delete the words which are not applicable

\*\* Please quote specific presidential order

% please delete the paragraph which is not applicable.

^ List of authorities empowered to issue Schedule Caste / Schedule Tribe Certificates:

- 1) District Magistrate / Additional District Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / 1st Class Stipendiary Magistrate / Sub-Divisional Magistrate / Extra-Assistant Commissioner / Taluka Magistrate / Executive Magistrate.
- 2) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
- 3) Revenue Officers not below the rank of Tehsildar.
- 4) Sub-Divisional Officers of the area where the candidate and/or his family normally resides.

NOTES:

- 1) The term ordinarily reside(s) used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.

DISABILITY CERTIFICATE FORMAT - II

{In cases of amputation or complete permanent paralysis of limbs and in cases of blindness}

(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)

No. - \_\_\_\_\_

Date - \_\_\_\_/\_\_\_\_/\_\_\_\_

Signature/LTI/RTI of the Candidate



Passport size  
photograph  
of the  
candidate

This is to certify that I have carefully examined Shri/Smt./Kum. \_\_\_\_\_,

son/wife/daughter of Shri \_\_\_\_\_ Date of Birth \_\_\_\_/\_\_\_\_/\_\_\_\_

[Age - \_\_\_\_\_ years], male/female, Registration No. \_\_\_\_\_ permanent resident of

House No. - \_\_\_\_\_, Ward/Village/Street \_\_\_\_\_ Post Office

\_\_\_\_\_ District \_\_\_\_\_ State \_\_\_\_\_, whose

photograph is affixed above, and am satisfied that

1. he/she is a case of (Please tick as applicable):

a. locomotor disability

b. blindness

2. The diagnosis in his/her case is \_\_\_\_\_.

3. He / She has \_\_\_\_\_% (in figure) \_\_\_\_\_ percent (in words)

permanent physical impairment/blindness in relation to his/her \_\_\_\_\_

(part of body) as per guidelines (to be specified).

4. The applicant has submitted the following document as proof of residence:-

Nature of Document	Date of Issue	Details of authority issuing the certificate

Official Seal:

[Authorized Signatory of notified Medical Authority] Name:

\_\_\_\_\_

**DISABILITY CERTIFICATE FORMAT - III**

**{In cases of multiple disabilities}**

**(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)**

**No. -** \_\_\_\_\_

**Date -** \_\_\_\_/\_\_\_\_/\_\_\_\_

Signature/LTI/RTI of the Candidate

Passport size  
photograph  
of the  
candidate

This is to certify that I have carefully examined Shri/Smt./Kum. \_\_\_\_\_

son/wife/daughter of Shri \_\_\_\_\_ Date of Birth \_\_\_\_/\_\_\_\_/\_\_\_\_

[Age - \_\_\_\_\_ years], male/female, Registration No. \_\_\_\_\_ permanent resident of

House No. - \_\_\_\_\_, Ward/Village/Street \_\_\_\_\_ Post Office

\_\_\_\_\_ District \_\_\_\_\_ State \_\_\_\_\_, whose

photograph is affixed above, and am satisfied that

1. He/she is a Case of **Multiple Disability**. His/her extent of permanent physical impairment/ disability has been evaluated as per guidelines (to be specified) for the disabilities ticked below, and shown against the relevant disability in the table below:

S. No.	Disability	Affected Part of Body	Diagnosis	Permanent physical impairment/mental disability (in %)
1	Locomotor disability	@		
2	Low vision	#		
3	Blindness	Both Eyes		
4	Hearing impairment	£		
5	Mental retardation	X		
6	Mental-illness	X		

Contd.

2. In the light of the above, his/her overall permanent physical impairment as per guidelines (to be specified), is as follows:

In figures: \_\_\_\_\_%

In words: \_\_\_\_\_percent

3. The above condition is progressive/ non-progressive/ likely to improve/ not likely to improve.

4. Reassessment of disability is:

**(i) Not Necessary[or]**

**(ii)** Is recommended/after \_\_\_\_\_years \_\_\_\_\_months, and therefore this certificate shall be valid till (DD/MM/YY)\_\_\_\_\_.

**@ - e.g. Left/Right/both arms/legs**

**# - e.g. single eye/both eyes**

**£ - e.g. Left/Right/both ears**

5. The applicant has submitted the following document as proof of residence:

Nature of Document	Date of Issue	Details of authority issuing the certificate

6. Signature and seal of the Medical Authority:

<b>Name and Seal of Member</b>	<b>Name of Seal of Member</b>	<b>Name and Seal of the Chairperson</b>



**DISABILITY CERTIFICATE FORMAT - IV**

**{In cases of any other case not covered in Format – II & III}**

**(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)**

**No. -** \_\_\_\_\_

**Date -** \_\_\_\_/\_\_\_\_/\_\_\_\_

Signature/LTI/RTI of the Candidate

Passport size  
photograph  
of the  
candidate

This is to certify that I have carefully examined Shri/Smt./Kum. \_\_\_\_\_

son/wife/daughter of Shri \_\_\_\_\_ Date of Birth \_\_\_\_/\_\_\_\_/\_\_\_\_

[Age - \_\_\_\_\_ years], male/female, Registration No. \_\_\_\_\_ permanent resident of

House No. - \_\_\_\_\_, Ward/Village/Street \_\_\_\_\_ Post Office

\_\_\_\_\_ District \_\_\_\_\_ State \_\_\_\_\_, whose

photograph is affixed above, and am satisfied that

1. He/she is a Case of **Multiple Disability**. His/her extent of permanent physical impairment/ disability has been evaluated as per guidelines (to be specified) for the disabilities ticked below, and shown against the relevant disability in the table below:

S. No.	Disability	Affected Part of Body	Diagnosis	Permanent physical impairment/mental disability (in %)
1	Locomotor disability	@		
2	Low vision	#		
3	Blindness	Both Eyes		
4	Hearing impairment	£		
5	Mental retardation	X		
6	Mental-illness	X		

Contd.

2. In the light of the above, his/her overall permanent physical impairment as per guidelines (to be specified), is as follows:

In figures: \_\_\_\_\_%

In words: \_\_\_\_\_percent

3. The above condition is progressive/ non-progressive/ likely to improve/ not likely to improve.

4. Reassessment of disability is:

(i) Not Necessary[or]

(ii) Is recommended/after \_\_\_\_\_years \_\_\_\_\_months, and therefore this certificate shall be valid till (DD/MM/YY)\_\_\_\_\_.

@ - e.g. Left/Right/both arms/legs

# - e.g. single eye/both eyes

£ - e.g. Left/Right/both ears

5. The applicant has submitted the following document as proof of residence:

Nature of Document	Date of Issue	Details of authority issuing the certificate

**Official Seal:**

**[Authorized Signatory of notified Medical Authority\*]**

**Name:** \_\_\_\_\_

\* In case this certificate is issued by a medical authority who is not a government servant, it shall be valid only if countersigned by the Chief Medical Officer of the District. Note: The principal rules were published in the Gazette of India vide notification number S.O. 908(E), dated the 31st December, 1996.

**Countersigned**

**Official Seal:**

**[CMO/Medical Superintendent/Head of Govt. Hospital]**

**Name:** \_\_\_\_\_

^ Countersignature and seal of the CMO/Medical Superintendent/Head of Government Hospital is essential in case the certificate is issued by a medical authority who is not a government servant.

**FORMAT FOR OBC [NCL] CERTIFICATE**

TO BE PRODUCED BY OTHER BACKWARD CLASSES APPLYING FOR ADMISSION to PhD Programme

**[This certificate MUST have been issued on or after 1<sup>st</sup> April 2024 ]**

This is to certify that Shri/Smt./Kum. \_\_\_\_\_ Son/Daughter of Shri/Smt.

\_\_\_\_\_ of Village/Town \_\_\_\_\_

District/Division \_\_\_\_\_ in the \_\_\_\_\_ State/UT

belongs to the \_\_\_\_\_ Community which is recognized as a backward class under:

- (i) Resolution No. 12011/68/93-BCC(C), dated 10/09/93 published in the Gazette of India Extraordinary Part I Section I No. 186, dated 13/09/93.
- (ii) Resolution No. 12011/9/94-BCC, dated 19/10/94 published in the Gazette of India Extraordinary Part I Section I No. 163, dated 20/10/94.
- (iii) Resolution No. 12011/7/95-BCC, dated 24/05/95 published in the Gazette of India Extraordinary Part I Section I No. 88, dated 25/05/95.
- (iv) Resolution No. 12011/96/94-BCC, dated 9/03/96.
- (v) Resolution No. 12011/44/96-BCC, dated 6/12/96 published in the Gazette of India Extraordinary Part I Section I No. 210, dated 11/12/96.
- (vi) Resolution No. 12011/13/97-BCC, dated 03/12/97.
- (vii) Resolution No. 12011/99/94-BCC, dated 11/12/97.
- (viii) Resolution No. 12011/68/98-BCC, dated 27/10/99.
- (ix) Resolution No. 12011/88/98-BCC, dated 6/12/99 published in the Gazette of India Extraordinary Part I Section I No. 270, dated 06/12/99.
- (x) Resolution No. 12011/36/99-BCC, dated 04/04/2000 published in the Gazette of India Extraordinary Part I Section I No. 71, dated 04/04/2000.
- (xi) Resolution No. 12011/44/99-BCC, dated 21/09/2000 published in the Gazette of India Extraordinary Part I Section I No. 210, dated 21/09/2000.
- (xii) Resolution No. 12016/9/2000-BCC, dated 06/09/2001.
- (xiii) Resolution No. 12011/1/2001-BCC, dated 19/06/2003.
- (xiv) Resolution No. 12011/4/2002-BCC, dated 13/01/2004.
- (xv) Resolution No. 12011/9/2004-BCC, dated 16/01/2006 published in the Gazette of India Extraordinary Part I Section I No. 210, dated 16/01/2006.
- (xvi) Resolution No. 12015/2/2007-BCC, dated 18/08/2010.

- (xvii) Resolution No. 12015/2/2007-BCC, dated 11/10/2010.
- (xviii) Resolution No. 12015/13/2010-BC-II, dated 08/12/2011.
- (xix) Resolution No. 12015/05/2011-BC-II, dated 17/02/2014.
- (xx) Resolution No. 12011/6/2014-BC-II, dated 07/12/2016.
- (xxi) Resolution No. 12011/13/2016-BC-II, dated 22/12/2016
- (xxii) Resolution No. 20012/1/2017-BC-II, dated 19/01/2017
- (xxiii) Resolution No. 12011/7/2017-BC-II, dated 31/07/2017

Shri/Smt./Kum. \_\_\_\_\_ and/or his family ordinarily reside(s) in the \_\_\_\_\_ District/Division of \_\_\_\_\_ State/UT. This is also to certify that he/she **does not belong to the persons/sections (Creamy Layer)** mentioned in Column 3 of the Schedule to the Government of India, Department of Personnel & Training O.M. No. 36 012/22/93-Estt.(SCT), dated 08/09/93 which is modified vide OM No. 36033/3/2004 Estt.(Res.), dated 09/03/2004, further modified vide OM No. 36033/3/2004-Estt. (Res) dated 14/10/2008, again further modified vide OM No. 36036/2/2013-Estt (Res) dated 30/05/2014.

Place \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

Designation \_\_\_\_\_

(with seal of office)

**NOTE:**

- (a) The term 'Ordinarily' used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.
- (b) ^The authorities competent to issue Caste Certificates are indicated below:
  - (i) District Magistrate / Additional Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / First Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of 1<sup>ST</sup> Class Stipendiary Magistrate).
  - (ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
  - (iii) Revenue Officer not below the rank of Tehsildar.
  - (iv) Sub-Divisional Officer of the area where the candidate and / or his family resides.

**FORMAT FOR DECLARATION TO BE SUBMITTED BY OBC CANDIDATES**

I, \_\_\_\_\_, son/daughter of  
Shri \_\_\_\_\_ resident of village/town/city \_\_\_\_\_  
district \_\_\_\_\_ of State/UT \_\_\_\_\_ hereby declare that I belong  
to the \_\_\_\_\_ community which is recognised as a backward class by the  
Government of India for the purpose of reservation in services as per orders contained in Department  
of Personnel and Training Office Memorandum No.36012/22/93- Estt. (SCT), dated 8/9/1993. It is also  
declared that I do not belong to persons/sections (Creamy Layer) mentioned in Column 3 of the  
Schedule to the above referred Office Memorandum, dated 8/9/1993, which is modified vide  
Department of Personnel and Training Office Memorandum No.36033/3/2004 Estt.(Res.) dated  
9/3/2004. I also declare that the condition of status/annual income for creamy layer of my  
parents/guardian is within prescribed limits as on financial year ending on March 31, 2024.

Place: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of the Candidate

Annexure II-A,  
Certificate format for Sponsored candidates

**Form I - SPONSORSHIP CERTIFICATE**

The applicant Mr./Ms. \_\_\_\_\_ is employed  
as \_\_\_\_\_ in our Institute/Organization since \_\_\_\_\_ in a pay  
scale \_\_\_\_\_. He/She is sponsored to pursue Ph.D. Program in the Department of  
\_\_\_\_\_ at National Institute of Technology, Raipur as full time  
student. We shall relieve him/her duties in the organization during the first three years of Ph.D. program.

Name and Address of the Sponsoring Authority

Seal:

Signature of the Head of the Sponsoring Institution / Organization

Annexure II-B,  
Certificate format for NoC for part-time candidates

*(This should be typed on the letter head of the sponsoring organization)*

**Form II – NO-OBJECTION CERTIFICATE FOR PART-TIME STUDENTS**

We have no objection if the applicant, Mr./Ms. \_\_\_\_\_ employed  
as \_\_\_\_\_ in our Institute Organization since \_\_\_\_\_ in  
a pay scale \_\_\_\_\_ is admitted in the Ph.D. program in NIT Raipur as part time Ph.D. student.

He/ She will be permitted to spend minimum 30 contact days per semester in the institute with the supervisor till  
thesis submission.

Name and Address of the Employer

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Seal

Signature of the Head of the Employer Institution / Organization

***(This should be typed on the letterhead of the sponsoring organization)***

**Form III - SPONSORSHIP CERTIFICATE OF EXTERNAL REGISTRATION**

Reference No.:

Date:

1. Name of the sponsoring organization: \_\_\_\_\_

Address: \_\_\_\_\_

2. Designation of the applicant: \_\_\_\_\_

3. Present status of the applicant: \_\_\_\_\_

4. Division/Section where research work is proposed to be done: \_\_\_\_\_

5. Name of the Local Supervisor: \_\_\_\_\_

*(Bio-data of the Local Supervisor to be enclosed giving details of designation, qualification, Research experience etc.)*

6. Details of relevant facilities, which will be made available to the candidate:

\_\_\_\_\_  
\_\_\_\_\_

7. Statement of Local Supervisor:

If Mr. /Ms. \_\_\_\_\_ is admitted to the Ph.D. program at National Institute of Technology, Raipur, I agree to supervise his/her research program jointly with the Supervisor from NIT, Raipur

**Signature of Local Supervisor**

If Mr./Ms. \_\_\_\_\_ is admitted to the Ph.D. Program, we agree to relieve him/her to enable him/her to be in residence at NIT, Raipur during the first semester of his/her Ph.D. Program.

Mr./Ms. \_\_\_\_\_ will be permitted to carry out research leading to the Ph.D. degree at our organization under the guidance of Dr. \_\_\_\_\_ .The necessary facilities will be provided for the purpose.

**Signature and Seal of the Sponsoring Authority**





**राष्ट्रीय प्रौद्योगिकी संस्थान रायपुर**  
**NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR**  
(An Institute of National Importance)  
Under Ministry of Education, Govt. of India  
GE Road, Raipur PIN: 492010, Chhattisgarh  
Web: [www.nitr.ac.in](http://www.nitr.ac.in), Phone : 0771 - 2254200

Department wise tentative vacancies for Spring 2025 (only for Full Time research Scholars with Institute Fellowship/Scholarship as per regulation R.o.1.1 of PhD Ordinance of NIT Raipur)

Department	Open	OC-EWS	SC	ST	OBC	Total
Applied Geology	2	0	1	0	1	4
Architecture	3	1	1	0	2	7
Biomedical Engg.	3	1	1	0	2	7
Biotechnology	3	0	1	1	1	6
Chemical Engg.	3	1	1	1	2	8
Chemistry	1	0	0	0	1	2
Civil Engg.	6	0	2	1	5	14
Computer Applications	3	1	1	1	2	8
Computer Science & Engg.	4	2	2	0	3	11
Electrical Engg.	6	1	2	1	4	14
Electronics & Communication Engg.	6	0	2	1	4	13
Humanities & Social Sciences	1	0	1	0	1	3
Information Technology	3	2	1	1	2	9
Mathematics	1	0	1	0	1	3
Mechanical Engg.	8	2	3	2	5	20
Metallurgical & Materials Engg.	3	2	1	1	2	9
Mining Engg.	1	0	0	0	0	1
Physics	1	0	0	0	0	1

GoI norms for the reservation of PH (Divyang) candidates shall be followed. Sponsored/self-financed/part-time seats are in addition to these depending upon suitability of the candidates and availability of Supervisor/specialization in the department.

## Annexure IV

Email addresses of the departments of NIT Raipur for the purpose of communication, if needed.

S. No.	Department	e-mail ids
1	Applied Geology	temprec.ag@nitrr.ac.in
2	Architecture	temprec.arch@nitrr.ac.in
3	Biomedical Engineering	temprec.bme@nitrr.ac.in
4	Biotechnology	temprec.bt@nitrr.ac.in
5	Chemistry	temprec.chy@nitrr.ac.in
6	Chemical Engineering	temprec.che@nitrr.ac.in
7	Civil Engineering	temprec.civ@nitrr.ac.in
8	Computer Applications	temprec.ca@nitrr.ac.in
9	Computer Science and Engineering	temprec.cse@nitrr.ac.in
10	Electrical Engineering	temprec.ee@nitrr.ac.in
11	Electronics and Communication Engineering	temprec.ece@nitrr.ac.in
12	Humanities and Social Sciences	temprec.hum@nitrr.ac.in
13	Information Technology	temprec.it@nitrr.ac.in
14	Mathematics	temprec.maths@nitrr.ac.in
15	Mechanical Engineering	temprec.me@nitrr.ac.in
16	Metallurgical and Materials Engineering	temprec.met@nitrr.ac.in
17	Mining Engineering	temprec.min@nitrr.ac.in
18	Physics	temprec.phy@nitrr.ac.in