

National Institute of Technology Raipur



Information Bulletin Ph.D. Admission 2020

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राष्ट्रीय प्रौद्योगिकी संस्थान रायपुर
National Institute of Technology Raipur

(An Institute of National Importance)

G E Road, Raipur. 492010, CG India

Phone: 0771-2252700, Fax: 0771-2253104

E-mail: registrar@nitrr.ac.in

Website: www.nitrr.ac.in

No./NITRR/Registrar/2020/.....

Date: 27.11.2020

Ph. D. Admission for Academic Year 2020

Applications are invited in e-mail (to respective departments, as given in information bulletin) for Ph.D. Admissions in (Full time/Sponsored/Self-Financed/Part time categories) for the Academic Session 2020 in Department of Applied Geology, Architecture, Bio Medical Engineering, Bio-Technology, Chemical Engineering, Chemistry, Civil Engineering, Computer Application (MCA), Computer Science and Engineering, Electrical Engineering, Electronics and Communication Engineering, Humanities and Social Sciences, Information Technology, Mathematics, Mechanical Engineering (**only part time seats available**), Metallurgical and Materials Engineering, Mining Engineering and Physics with specialization and area as mentioned in the details provided on Institute website: www.nitrr.ac.in.

How to Apply:

The relevant information is available in the **detailed information bulletin** and the candidates are required to download and fill the application form and deposit the requisite application fee* online. The (i) filled application form, along with (ii) soft copy of recent passport sized photograph and (iii) single (merged) pdf file of all relevant documents, as mentioned in the form, should be sent directly to the respective departments wherein the candidate wishes to apply. (The email ids of respective departments are provided in the detailed information bulletin).

****Application Fee:***

Rs. 500/- for OC, OBC and EWS category applicant. For SC/ST/PH candidates, fee will be **Rs. 250/-** only.

The candidates wishing to apply in more than one department should apply separately to each department.

The application forms must be submitted by 07.12.2020, till 05.00 pm.

Note: The schedule mentioning the dates of written exam, declaration of list of eligible candidates for interview, dates of online interview and the list of selected and waitlisted candidates will be displayed in the Institute website www.nitrr.ac.in and no intimation will be sent to the candidates by post/email.

The candidates are requested to visit Institute website regularly.

**Registrar
NIT Raipur**



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The candidates wishing to apply in more than one department should apply separately to each department.

Number of seats available department-wise under Full-Time Fellowship/ Scholarship is given in annexure III and 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.

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 Aabled and those who had obtained their master's degree prior to 19.09.1991. Candidates who are appearing in qualifying examination as stated above are also eligible to apply. However, they have to produce a certificate of passing the qualifying examination on the day of interview.

The concerned department will 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.

1.2 Other Conditions

There is no age limit for the applicant.

Prospective candidate should apply for **full time/sponsored/self-financed/part time candidature** on the prescribed form on or before due date fixed for the same 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.0 (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.0.1 Full Time Research Candidate

R.0.1.1 Institute Research Student/Candidate: getting institutional fellowship/scholarship.

R.0.1.2 Government/Semi-Government Fellowship awardee: by QIP/ CSIR/ DST/ UGC/ DRDO/AICTE/DAE etc.

R.0.1.3 Sponsored Students/Candidates: being an employee of a public sector undertaking, Government department, Defense 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 have to submit Form I (Page 27 of Ph.D. Ordinance and also made available with the advertisement, Annexure 2a).

R.0.1.4 Sponsored from industries under bilateral agreement with the institute.

Candidates selected under this category have to submit Form I (Page 27 of Ph.D. Ordinance and also made available with the advertisement, Annexure 2a).

R.0.1.5 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.0.2 Part Time Research Candidate

R.0.2.1 Institute Faculty/ Staff: those who are permanent employees of the Institute.

R.0.2.2 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.0.2.3 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.0.2.4 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 selected under this category will have to submit Form III (Page 29 of Ph.D. Ordinance and also made available with the advertisement, Annexure 2c).

Candidates applying under Part-time category will have to produce NOC from their employer (in the format of Form II given at page 28 of Ph.D. ordinance and also made available with the advertisement, Annexure 2b). 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 with in a stipulated date declared for such cases by the Office of Dean Academics. 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.

Candidates are advised to sincerely 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.

http://nitrr.ac.in/downloads/ordinance/to_be_uploaded_PhD%20ordinance%20_wef_16092019.pdf.

2. Selection Process

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

Candidates who have scored above mentioned minimum marks (or more) shall only be eligible to be called for the online 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 online 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 online 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 Eligible candidates, who are regular faculty and staff member of NIT Raipur having successfully completed their probation period, need not to appear in written entrance examination.

2.4 Further, UGC/CSIR (JRF)/NET/Teacher fellowship holder/ M Phil qualified candidates need not to appear in written entrance examination. Therefore, all such candidates will be called directly for online interview subject to their eligibility. Other than these, remaining candidates who are found eligible after the scrutiny of the applications will 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 Institute scholar with 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 2 (d-j). The OBC (NCL) and EWS certificate must have been issued after 01.04.2020.

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 things 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.0.1.1 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 applicable as per GoI/MHRD norms.

If eligible candidates are not available in one department, then the specified seat can be transferred, with approval of the Competent Authority, to other department where suitable candidates are available.

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 online interviews, dates of online interviews and final result will be displayed in the institute website **www.nitr.ac.in** and no intimation will be sent to the candidates by post or individual e-mail. The candidates are advised to visit Institute website regularly.

5 Document Verification

The candidates, shortlisted to appear in the online interviews, will have to submit an undertaking (Annexure 4) before 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 at the time of physical verification of documents due to lack of proofs (original documents) or otherwise, his/her candidature will be terminated for which NIT Raipur will not be responsible.



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For PhD admissions in Academic Year 2020-2021

Sr. No.	Department	Broad Research Areas
01	Applied Geology	<ol style="list-style-type: none"> 1. Structural Geology. 2. Petrology 3. Hydrogeology. 4. Remote Sensing and GIS 5. Glaciers 6. Synthetic aperture radar.
02	Architecture	History of Architecture, urban design, town planning, environmental Studies, climatology, housing, architecture.
03	Biomedical Engineering	Numerical and Experimental Biomechanics, CFD Application in Biomedical Engineering, EEG Signal Analysis, Medical Image Processing, Instrumentation, Biomedical Signal Processing, Medical Imaging, Information Retrieval, Soft computing, Pattern recognition. Area of specialization: Signal Processing, Image processing, Photoplethysmogram. Inverse Problems, Optical Tomography, Optimization Algorithms, Pattern Recognition, Medical Imaging, Computational & Multiscale Biomechanics, Orthopedic & Dental Implant Biomechanics, Finite Element Analysis.
04	Biotechnology	<ol style="list-style-type: none"> 1. Biosensors & Nansensors for clinical & Environmental Applications. 2. Environmental and Biodegradation aspects of pollutants. Drug design aspects and application. 3. Drug development, Drug Delivery & Therapeutics Infection disease diagnostic methods, Antibio & film therapy, Biorefining of lignocellulosic mass.
05	Chemistry	<ol style="list-style-type: none"> 1. Analysis of Nuclear Fuel Materials, Luminescence, Biosorption, Corrosion, DNA Binding & drug design, Environment Science Synthesis, Characterization and application of Nanoparticles carbon nano dots and grapheme dots. 2. Nanomaterials & Nano Composties. 3. Environmental & Analytical Chemistry, Nano Science, Microextraction of drug [Antidepressant]. 4. Nanomaterials, Polymer Synthesis Catalysis, Conducting Polymers. 5. Heterocyclic Compounds, Medicinal Chemistry, Organic Synthesis. 6. Crystal Engineering, Hydrogen bonding, Coordination polymer, Metal organic framework. 7.
06	Chemical Engineering	Nanotechnology, Electrochemistry, Membrane Technology, Advanced Oxidation Processes, Environmental Engineering, Reaction Engineering, Sensors, Catalysis, Industrial effluent treatment, Food Science Engineering, Process Intensification, CFD, Modeling, Vapor-Liquid Equilibrium Studies, Nanocomposite, Reactive Extraction, Biotechnology and Bioprocess Engineering, Surface Engineering.

07	Civil Engineering	Air pollution Monitoring & Modeling, Atmospheric Science, Pavement Engineering, Transportation systems planning, Concrete Tech, Remote Sensing & GIS Applications Energy, Water resources, Environmental Engineering, Image Processing, IoT & Big data in Civil Engineering application structural analysis, Non-linear Analysis, Seismic Analysis, Earthquake resonance design, Performance evaluation of pavement, non conventional materials for pavements, Climate change analysis on Hydrology.
08	Computer Application (MCA)	Machine Learning, Data Mining, Cloud Computing, Internet of Things, Multimedia Forensics, Cyber Security, and Cyber Physical Systems, Swarm Intelligence Techniques, Evolutionary Algorithm and Heuristic for combinatorial Optimization Problems, Decision Support System, and Digital Image Processing.
09	Computer Science & Engg	Data Analysis, Text Mining, Information Retrieval, Opinion Mining, Biostatistics, Cloud Computing & IoT, Information Security, Blockchain, Distributed Systems, Security in Cloud Computing, machine Learning, Deep Learning, Software Engineering, Wireless Sensor networks.
10	Electrical Engineering	<ol style="list-style-type: none"> 1. Medical Signal & Image processing, Speech Recognition, Biometrics. 2. Power quality, Renewable energy resources, Power Electronics, Electrical Machines. 3. Power system protection, AI application in smart grid, micro grid protection, Renewable energy sources. 4. Energy storage, cyber physical power system. 5. Renewable Energy Systems, Hybrid Electric Vehicles. 6. Power Electronics application to Renewable energy & Drives. 7. Application of soft computing techniques in Power System. 8. Power Electronics converters and its applications. 9. Power system S Renewable Energy. 10. Power Electronics converters, drives, electric vehicles, IOT, soft computing. 11. Smart grid protection, Micro grid protection, Protection of transmission system. 12. Power Electronics converter for PV & EV Applications. 13. High Voltage Engineering. 14. Smart Grid, Energy Management in Power system, Volt/VAR control in Power system.
11.	Electronics & Telecommunication Engg	Analog and Digital Communication, Cryptography & Network security, Microwave and Antenna, Signal & Image processing, VLSI Design, Nanoelectronics Devices, Optoelectronics. Digital signal processing, Soft computing.
12.	Humanities	English Literature, Feminism, Gender studies; English language teaching; Literature; Indian & American Literature, Culture studies; Linguistics and Psycholinguistics (Indian languages); Indian Literature, Regional Literature; Human Right; Child Rights; Sociology of Development;
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 processing, Bioinformatics, Block chain, Internet of things, Big Data Processing etc.
14.	Mathematics	Algebra, Rough set, Fuzzy set, Integral transform, Functional Analysis, Linear Algebra, Queuing theory, & Inventory systems computational statistics, Cryptography, Fluid Dynamics.

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 etc.
16.	Metallurgical Engineering	Advanced metal casting, Recycling from Industrial waste, Density functional theory based materials design for electro-chemical super capacitors and solar materials design, Friction stir welding, Metal foams, Functionally graded materials, Lattice metals.
17.	Mining Engineering	Rock excavation engineering, Blasting, Environment. Slope stability, Rock mechanics. Mine safety Engineering, Computer Applications in Mining, GIS Application in Mining, Ventilation studies, Data Analytics application in Mining, Internet of things (IoT) applications in Mining.
18.	Physics	Luminescence Properties, Electrical conduction behavior of materials, Condensed Matter Physics (Theory), Thermo-Electric Properties of Materials, Thermoelectric Devices, Efficiency of LEDs, Inorganic and Perovskite Solar Cells.

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

(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

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

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

SC/ST Certificate Format**FORM OF CERTIFICATE TO BE PRODUCED BY SCHEDULED CASTES (SC) AND SCHEDULED TRIBES (ST) CANDIDATES**

1. This is to certify that Shri/ Shrimati/ Kumari* _____ son/daughter*
of _____ of Village/Town* _____
District/Division* _____ of State/Union Territory* _____ belongs
to the _____ Scheduled Caste / Scheduled Tribe* 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 Reorganisation Act, 1960, the Punjab Reorganisation Act, 1966, the State of Himachal Pradesh Act, 1970, the North Eastern Areas (Reorganisation) Act, 1971, the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 1976 and the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 2002]

* The Constitution (Jammu and 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 (Dadara and Nagar Haveli) Scheduled Castes Order, 1962;**

* The Constitution (Dadara and Nagar Haveli) Scheduled Tribes Order, 1962;

* The Constitution (Pondicherry) Scheduled Castes Order, 1964;

* The Constitution (Uttar Pradesh) Scheduled Tribes Order, 1967;

* The Constitution (Goa, Daman and Diu) Scheduled Castes Order, 1968;

* The Constitution (Goa, Daman and 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 and Kashmir) Scheduled Tribes Order, 1989;

* The Constitution (Scheduled Castes) Order (Amendment) Act, 1990;

* The Constitution (Scheduled Tribes) Order (Amendment) Act, 1991;

* The Constitution (Scheduled Tribes) Order (Second Amendment) Act, 1991.

2. # This certificate is issued on the basis of the Scheduled Castes / Scheduled Tribes* Certificate issued to Shri /Shrimati*
_____ father/mother* of Shri /Shrimati /Kumari* _____ of Village/Town*
_____ in District/Division* _____ of the State State/Union
Territory* _____ who belong to the Caste / Tribe* which is recognised 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 Village/Town*
_____ of _____ District/Division* of the State Union Territory* of _____.

Signature: _____

Designation _____

(with seal of the Office)

Place: _____ State/Union Territory* _____

Date: _____

* Please delete the word(s) which are not applicable.

Applicable in the case of SC/ST Persons who have migrated from another State/UT.

IMPORTANT NOTES

The term "ordinarily reside(s)**" used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950. Officers competent to issue Caste/Tribe certificates:

1. District Magistrate / Additional District Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / Ist Class Stipendiary Magistrate / City Magistrate / Sub-Divisional Magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner.
2. Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
3. Revenue Officers not below the rank of Tehsildar.
4. Sub-divisional Officer of the area where the candidate and/ or his family normally reside(s).
5. Administrator / Secretary to Administrator / Development Officer (Lakshadweep Island).
6. Certificate issued by any other authority will be rejected.

FORM-OBC-NCL

OBC-NCL Certificate Format

FORM OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES (NCL) APPLYING FOR ADMISSION TO CENTRAL EDUCATIONAL INSTITUTIONS (CEIs), UNDER THE GOVERNMENT OF INDIA

This is to certify that Shri/Smt./Kum* _____ Son/
 Daughter* of Shri/Smt.* _____ of Village/
 Town* _____ District/Division* _____ in the
 State/Union Territory _____ belongs to the
 _____ community that is recognized as a backward class
 under Government of India**, Ministry of Social Justice and Empowerment's Resolution No.
 _____ dated _____ ***

Shri/Smt./Kum. _____ and/or _____
 his/her family ordinarily reside(s) in the _____ District/Division of
 the _____ State/Union Territory. 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. 36012/22/93- 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) dtd. 30/05/2014, and again further
 modified vide OM No. 36033/1/2013-Estt (Res) dtd. 13/09/2017.

District Magistrate /
 Deputy Commissioner /
 Any other Competent Authority

Dated:

Seal

* **Please delete the word(s) which are not applicable.**

** **As listed in the Annexure (for FORM-OBC-NCL)**

*** **The authority issuing the certificate needs to mention the details of Resolution of Government of India, in which the caste of the candidate is mentioned as OBC.**

NOTE:

- (a) The term 'Ordinarily resides' 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/ Ist Class Stipendiary Magistrate/ Sub-Divisional magistrate/ Taluka Magistrate/ Executive Magistrate/ Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).
 - (ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
 - (iii) Revenue Officer not below the rank of Tehsildar' and
 - (iv) Sub-Divisional Officer of the area where the candidate and/or his family resides

ANNEXURE for FORM-OBC-NCL

Sl. No.	Resolution No.	Date of Notification
1	No.12011/68/93-BCC(C)	13.09.1993
2	No.12011/9/94-BCC	19.10.1994
3	No.12011/7/95-BCC	24.05.1995
4	No.12011/96/94-BCC	09.03.1996
5	No.12011/44/96-BCC	11.12.1996
6	No.12011/13/97-BCC	03.12.1997
7	No.12011/99/94-BCC	11.12.1997
8	No.12011/68/98-BCC	27.10.1999
9	No.12011/88/98-BCC	06.12.1999
10	No.12011/36/99-BCC	04.04.2000
11	No.12011/44/99-BCC	21.09.2000
12	No.12015/9/2000-BCC	06.09.2001
13	No.12011/1/2001-BCC	19.06.2003
14	No.12011/4/2002-BCC	13.01.2004
15	No.12011/9/2004-BCC	16.01.2006
16	No.12011/14/2004-BCC	12.03.2007
17	No.12011/16/2007-BCC	12.10.2007
18	No.12019/6/2005-BCC	30.07.2010
19	No. 12015/2/2007-BCC	18.08.2010
20	No.12015/15/2008-BCC	16.06.2011
21	No.12015/13/2010-BC-II	08.12.2011
22	No.12015/5/2011-BC-II	17.02.2014

Government of
(Name & Address of the authority issuing the certificate)

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

Certificate No. _____ Date: _____

VALID FOR THE ADMISSION IN ACADEMIC YEAR 2020-2021

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 in 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 Schedule Caste, Schedule Tribe and Other Backward Classes (Central List).

Signature with seal of Officer _____
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.**

* **Note1:** Income covered all sources i.e. salary, agricultural, business, profession, etc.

** **Note2:** 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.

*** **Note3:** 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.

MEDICAL CERTIFICATE (to be issued by a Registered Medical Practitioner)					
GENERAL EXPECTATIONS					
Candidates should have good general physique. In particular, Chest measurement should not be less than 70 cm, with satisfactory limits of expansion and contraction. Vision should be normal. In case of defective vision, it should be corrected to 6/9 in both eyes or 6/6 in the better eye. Colour blind and unocular(having vision in only one eye)persons are restricted from admission to certain courses. Hearing should be normal. Defective hearing should be corrected. Heart and lungs should not have any abnormality and there should be no history of mental illness and epileptic fits.					
1	Name of the candidate:				
2	Identification Mark (a mole, scar or birthmark), if any				
3	Major illness/operation, if any (specify nature of illness/operation)				
4	Height in cm:	Weight in kg:	Blood Group:		
5	Past History	(a) Mental illness (b) Epileptic Fit			
6	Chest (a) Inspiration in cm		(b) Expiration in cm		
7	Hearing				
8	Vision with or without glasses:	Right Eye	Left Eye	Colour Blindness	Unocular vision <small>(having vision in only one eye)</small>
9	Respiratory System				
10	Nervous System				
11	Heart	(a) Sounds	(b) Murmur		
12	Abdomen (a) Liver (b) Spleen	Hernia	Hydrocele		
13	Any other defects:				
Certificate of Medical Fitness					
<input type="checkbox"/> The candidate fulfils the prescribed standard physical fitness, medical fitness and is FIT for admission to Engineering/Architecture/ Pharmaceuticals/ Science Course <input type="checkbox"/> The candidate does not fulfil the prescribed standard of physical fitness/medical fitness and is unfit/temporarily unfit for admission due to following defects: _____ Name of the Doctor Signature Registration number Seal					

FORM-PwD (II)

Form-II
Disability Certificate

(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)

(See rule 4)

Recent PP size Attested Photograph (Showing face only) of the person with disability

Certificate No. _____

Date: _____

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

_____ son/wife/daughter of Shri _____

Date of Birth (DD/MM/YY) _____ 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:
 - a. locomotor disability
 - b. blindness
 (Please tick as applicable)
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 certificate

(Signature and Seal of Authorised Signatory of notified Medical Authority)

Signature/Thumb impression of the person in whose favour disability certificate is issued.

FORM-PwD(III)

Form-III

Disability Certificate

(In cases of multiple disabilities)

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

(See rule 4)

Recent PP size Attested Photograph (Showing face only) of the person with disability

Certificate No. _____ Date: _____

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

_____ son/ wife/daughter of Shri _____

_____ Date of Birth (DD/MM/YY) _____ Age _____ years,

male/female _____ Registration No. _____

permanent resident of House No. _____ Ward/Village/Street

_____ Post Office _____ District

_____ State _____,

whose photograph is affixed above, and are 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		

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

- e.g. Single eye/both eyes

£ - e.g. Left/Right/both ears

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

In figures: _____ percent

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) _____

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

Nature of Document	Date of Issue	Details of authority issuing certificate

6. Signature and seal of the Medical Authority:

Name and Seal of Member	Name of Seal of Member	Name and Seal of the Chairperson

Signature/Thumb impression of the person in whose favour disability certificate is issued.

FORM-PwD(IV)

Form-IV

Disability Certificate

(In cases other than those mentioned in Forms II and III)

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

(See rule 4)

Recent PP size Attested Photograph (Showing face only) of the person with disability

Certificate No. _____ Date: _____

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

_____ son/ wife/daughter of Shri _____

_____ Date of Birth (DD/MM/YY) _____ 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 he/she is a case of disability.

1. His/her extent of percentage of physical impairment/disability has been evaluated as per guidelines (to be specified) and is 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		

(Please strike out the disabilities which are not applicable.)

@ - e.g. Left/Right/both arms/legs**# - e.g. Single eye/both eyes****£ - e.g. Left/Right/both ears**

2. The above condition is progressive/ non-progressive/ likely to improve/ not likely to improve.
3. Reassessment of disability is:
 - a. not necessary
 - Or
 - b. is recommended/after _____ years _____ months, and therefore this certificate shall be valid till (DD/MM/YY) _____
4. The applicant has submitted the following document as proof of residence:

Nature of Document	Date of Issue	Details of authority issuing certificate

(Authorised Signatory of notified Medical Authority)
(Name and Seal)

Countersigned

{Countersignature and seal of the CMO/Medical Superintendent/Head of Government Hospital, in case the certificate is issued by a medical authority who is not a government servant (with seal)}

Signature/Thumb impression of the person in whose favour disability certificate is issued.

Note: 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.



राष्ट्रीय प्रौद्योगिकी संस्थान रायपुर
National Institute of Technology Raipur

(An Institute of National Importance)

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E-mail: registrar@nitrr.ac.in

Website: www.nitrr.ac.in

Department-wise vacancies (Only) for Full-time research scholar with Institute fellowship/Scholarship as per Regulation R.o.1.1 of Ph. D. Ordinance of NIT Raipur

S. No.	Department	UR	EWS	OBC	SC	ST	TOTAL
1	Applied Geology	1	0	0	1	0	2
2	Architecture	1	1	1	1	0	4
3	Biomedical Engineering	1	0	1	1	0	3
4	Biotechnology	2	0	1	1*	0	4
5	Chemistry	2	1	2	0	1	6
6	Chemical Engineering	3	0	2	1	1	7
7	Civil Engineering	3+1*	0	2	1	1	8
8	Computer Applications	1	1	1	1	0	4
9	Computer Science and Engineering	3	0	2	1	1	7
10	Electrical Engineering	3+1*	1	2	2	0	9
11	Electronics and Communication Engineering	2	1	2	0	0	5
12	Humanities and Social Sciences	1	1	1	1	0	4
13	Information Technology	2	1	1+1*	0	1	6
14	Mathematics	2	1	1	0	1	5
15	Mechanical Engineering	0	0	0	0	0	0
16	Metallurgical and Materials Engineering	2	0	1	1	0	4
17	Mining Engineering	1	0	1	1	0	3
18	Physics	2	0	1	0	0	3
Total		34	8	23	13	6	84

* indicates reserved seat for differently able (PWD/PH) candidates. Sponsored/self-financed/Part-time seats are in addition to these depending upon suitability of the candidate and availability of supervisor/specialization in the Department.

Undertaking, to be submitted, at the time of online interview.

Date: _____

Place: _____

I, the undersigned, hereby, undertake that I have read the instructions provided in the detailed information bulletin and in the application form carefully and have understood the same. I, the undersigned, further undertake that if my application is incomplete in any respect and/or if any information furnished in this application is proved wrong at any stage, then it may be rejected and the admission, if offered/granted, may be cancelled. I, understand that, if selected for admission, I will be admitted provisionally till the physical verification of my documents are done and if, during the same, I fail to furnish any requisite document pertaining to the eligibility conditions for the candidature, or information provided by me is found false/incorrect, my admission is liable to be cancelled and I will be solely responsible for the same.

Signature: _____

Name: _____

Aadhar UID: _____

Email addresses of the departments of NIT Raipur for the purpose of form submission

The applicants are instructed to send their completely filled application form to the e-Mail addresses of the departments, wherein, they have applied for the PhD programme. The addresses for this purpose are given in the table below.

Kindly ensure that your mail contains only three attachments as explained below.

1. The filled and complete application form.
2. One recent passport sized photograph (in .jpg/.png format)
3. Soft copies of all the requisite documents (as mentioned in the application form), merged into a single pdf file and named as “documents_applicant name.pdf”.

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