

INFORMATION BROCHURE

PhD ADMISSION 2020-21

Advt. No.: IIITR/Advt/2020-21/02/PhD

Date: 11/05/2020



भारतीय सूचना प्रौद्योगिकी संस्थान राँची

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, RANCHI

(An Institution of National importance under act of Parliament)

Ranchi - 834010, Jharkhand, India

www.iiitranchi.ac.in

1. ABOUT THE INSTITUTE

Indian Institute of Information Technology Ranchi is an autonomous institute setup by the MHRD, Government of India, and Government of Jharkhand along with the industry partners Tata Motors, TCS and CCL on a Public Private Partnership (PPP) in the year 2016.

MHRD, Government of India has taken up the initiative to setup 20 new Indian Institutes of Information Technology (IIITs) on a Public Private Partnership Model. A major objective in establishing IIITs is to set up a model of education which can produce best-in-class human resources in IT and harnessing the multi-dimensional facets of information technology in various domains. While the number of students produced by these IIITs would be small, the impact they create would be great. IIIT, Ranchi is determined to offer state-of-the-art facilities for advanced studies and research.

1.1 Location of the Institute

Presently, IIIT Ranchi is running from Science & Technology Campus, Sirkha Toli, Namkum, Ranchi, Jharkhand 834010. Construction work of permanent campus is in process at Kanke, Ranchi.

2. ADMISSION TO Ph.D. PROGRAMME

2.1 Applications are invited for admission to the Ph.D. programme at IIIT Ranchi

Applications are invited for admission to the Doctor of Philosophy (Ph.D.) programme beginning in Autumn 2020. The programme will be offered in Computer Science & Engineering (CSE) and Electronics & Communication Engineering (ECE).

2.2 Admission categories and eligibility

The applications are invited under the below mentioned categories. All the applicants will be admitted only through the institute's selection process. In general, **the Selection Panel / Director can relax and/or set higher criteria for selection of suitable candidates.**

TABLE-1: Admission Category FOR Ph.D. PROGRAMMES.

Sl. No.	Admission Category
1	FULL TIME RESEARCH SCHOLAR
2	SELF FINANCED RESEARCH SCHOLARS (Full Time)
3	SPONSORED CATEGORY (Full Time)
4	SPONSORED CATEGORY (Part Time)
5	ON DEPUTATION (Full Time)
6	ASPIRING STUDENTS in HIGHER ACADEMICS (ASHA) (Full Time)

TABLE-2: QUALIFYING DEGREES FOR Ph.D. PROGRAMMES.

FULL TIME RESEARCH SCHOLAR: An applicant who joins Ph.D. at IIT Ranchi under this category gets financial assistantship from the Institute.

Sl. No.	Ph.D. Programme	Qualifying Degree
1	Computer Science Engineering	<ol style="list-style-type: none">1. M.Tech/B.E./B.Tech or equivalent in Computer Science and Engineering / Information Technology/ Software Engineering / Electronics and Communication / Telecommunication / Electronics and Instrumentation / Electronics / Electronics and Electrical with a consistently good academic record in relevant discipline. The candidate should have first division or equivalent in both Bachelor and Master degree.2. Candidates seeking admission, should have valid score in GATE / UGC-NET / CSIR-NET (in Computer Science, Electronics and Communication or related field) or completed M.Tech with Gate Score.
2	Electronics and Communication Engineering	<ol style="list-style-type: none">1. M.Tech/B.E/B.Tech or equivalent in Electronics Engineering, Electronics and Communication Engineering, Electronics and Telecommunication, Electronics and Instrumentation / Electronics and Electrical, with a consistently good academic record in relevant discipline. The candidate should have first division or equivalent in both Bachelor and Master level degree.2. Candidates seeking admission should have valid score in GATE/UGC-NET/CSIR-NET (in Computer Science, Electronics and Communication or related field) or completed M.Tech with Gate Score.

SELF FINANCED RESEARCH SCHOLARS (Full Time): An awardee of research fellowship from some recognized funding agency (CSIR/ UGC/ DAE/ NBHM/ DST/DBT/ ICAR/ ICMR/ ICPR etc.). They shall not receive any financial support from the institute in any form.

3.	Computer Science Engineering	<ol style="list-style-type: none">1. Applicants should have qualified CSIR/ UGC/ DAE/ NBHM/ DST/ DBT/ ICAR/ ICMR/ ICPR or secured funding from such an agency.2. In addition to the above, the minimum educational qualification for admission is a M.Tech degree with a consistently good academic record in relevant discipline. The candidate should have first division or equivalent in both Bachelor and Master degree.
4.	Electronics and communication Engineering	<ol style="list-style-type: none">1. Applicants should have qualified CSIR/ UGC/ DAE/ NBHM/ DST/ DBT/ ICAR/ ICMR/ ICPR or secured funding from such an agency.2. In addition to the above, the minimum educational qualification for admission is a M.Tech degree with a consistently good academic record in relevant discipline. The

		candidate should have first division or equivalent in both Bachelor and Master degree.
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SPONSORED CATEGORY (Full time / Part time): An applicant of this category is sponsored by his/her employer.

For full-time sponsored candidate, the sponsoring organization must specifically undertake to relieve the applicant to enable residential requirements of the Ph.D. programme and also provide necessary facilities for carrying out the research. The sponsoring organization shall bear all expenditure towards tuition fees, institute fees, hostel fees, and any other expenses during the entire period of the Ph.D. programme. Those under this category shall work full time towards the Ph.D. programme. They shall not receive any financial support from the institute in any form.

For part-time sponsored candidate, a candidate is sponsored by a recognised R&D organisation, academic institution, governmental organisation or industry for doing PhD in the Institute on a Part-time basis. The applicant must be a regular employee of his/her organisation with at least two years of experience at the time of admission and be engaged in professional work in the discipline in which admission is sought. He/She will not receive any financial assistance/support from the Institute. A No Objection Certificate from the Head of the Institution/ Organisation in which he/she is employed must be enclosed at the time of application. These candidates should be able to attend regular examination as per the schedule of the Institute.

5.	CSE and ECE	<ol style="list-style-type: none"> The minimum educational qualification for admission is a M.Tech degree with a consistently good academic record in relevant discipline. <p>OR</p> <p>Candidates, with four or more years of experience in relevant field after B.Tech/MCA with a consistently good academic record in relevant discipline, are also eligible for the application process</p> <ol style="list-style-type: none"> Applicant must be a regular employee of the sponsoring organization.
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ON DEPUTATION (Full Time): This category refers to an applicant who is deputed from Government or academic institutions on study leave for a period not less than three years, extendable upto four years, for pursuing Ph.D. programme at the Institute. They shall not receive any financial support from the institute in any form.

7.	CSE & ECE	<ol style="list-style-type: none"> The minimum educational qualification for admission is a B.Tech and/or M.Tech degree with a consistently good academic record in relevant discipline. Applicants should have at least Six years of professional experience after his/her completion of B.Tech in the relevant field. <p>OR</p> <p>Applicants should have at least Four years of professional experience after his/her completion of M.Tech in the relevant field.</p>
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ASPIRING STUDENTS in HIGHER ACADEMICS (ASHA) (Full-Time): This category is specially designated to the fresh graduates from IIT's/NIT's/IIIT's/ CFTI's. They shall not receive any financial support from the institute in any form.

8.	CSE & ECE	<ol style="list-style-type: none"> 1. The minimum educational qualification for admission is a B.Tech degree with at least 8.5 CGPA or 80 % (as applicable in the graduating institute) with a consistently good academic record in relevant discipline. 2. Candidates seeking admission, should possess requisite marks/grades in GATE (cut-off to be defined by IIIT Ranchi) in CS or EC or IT or related field.
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NOTE: *A separate entrance test will be conducted for admission in PhD for non-GATE students, which will be conducted by the respective Departments.

3. DURATION AND RESIDENCY PERIOD OF THE PROGRAMME

- A. The minimum duration of the Ph.D. Programme (excluding dropped semester(s)/maternity leave) is 3 years (36 months) from the date of joining.
- B. All Ph.D. students have to stay within the campus during the entire period of Ph.D. programme. However, special permission, on a case to case basis, may be considered by the competent authority for staying outside the campus.
- C. In general, Ph.D. students with Institute Scholarship can be away from the Institute only after pre-submission seminar. However, in exceptional cases, they may be permitted to leave the institute only after completion of course work. In such cases, Ph.D. category will be converted to another appropriate category, based on the eligibility. This will be based on Doctoral Scrutiny Committee (DSC) recommendation and with the approval of Chairman (Senate). This provision of conversion can be availed of only once during the programme.
- D. The maximum period for completing the Ph.D. programme is 7 years (excluding maternity leave) from the date of admission. However, financial assistantship will be up to maximum three years (with possible extension of maximum one year after due review and recommendation from supervisor) from the date of joining.
- E. Semester drop is permitted up to two semesters in the entire duration of Ph.D. programme on bonafide grounds like medical, delay in getting relieving order from preceding organization or any other valid grounds based on DSC recommendation and approval of Competent authority. However, the maximum period of completing Ph.D. programme will remain unchanged.

4. IMPORTANT DATES:

Procedure	Date
Availability of Application Form	May 12, 2020
Last date of submission of application form	June 26, 2020
Display of list of shortlisted candidates	July 03, 2020
Date of Written Test and/or Interview	July 19, 2020 (Tentative)
Announcement of results	July 21, 2020 (Tentative)
Reporting at IIIT, Ranchi	First Week of August (Will be notified in the institute website)
Commencement of Semester for all Ph.D. courses for the Session 2020-21	First Week of August (Will be notified in the institute website)

5. RESEARCH AREAS:

All fields of ECE and CSE discipline. One can refer to faculty profile for details. However, for **Full Time Research Scholar** category *priority* will be given to the following areas in this Autumn admission: Cryptography and Network Security, Hardware Security, Big Data, Cloud Computing, Distributed Systems, Parallel Computing, Image Processing, Machine Learning, Wireless Sensor Networks, Internet of Things, Database Management and Microwave, Antenna, Optical Communication, Optical Wireless Communication, Silicon Photonics, VLSI, Communication for CSE and ECE students respectively.

6. FINANCIAL ASSISTANCE

- (a) The Financial assistance of Rs. 31,000/- per month for 1st and 2nd year and Rs. 35,000/- per month for 3rd and 4th year will be offered to PhD Students based on Institute / GOI rules.
- (b) Sponsored candidates are NOT eligible for any financial assistantships.

7. PROGRAMME FEE

A candidate will be required to deposit the first semester fee at the time of admission through online portal of SBI Collect.

The existing structure of the semester wise fees is given below:

Semester	General / EWS/OBC/SC/ST/PC (Full Time)	General /EWS/ OBC/SC/ST/PC (Part Time)
I	<input type="checkbox"/> 25000/- (Tuition Fee) + <input type="checkbox"/> 15000/- (Institute Fee) + <input type="checkbox"/> 20000/- (Caution Money one time)	<input type="checkbox"/> 30000/- (Tuition Fee) + <input type="checkbox"/> 15000/- (Institute Fee) + <input type="checkbox"/> 20000/- (Caution Money one time)
II onwards	<input type="checkbox"/> 40,000/- (Tuition Fee + Institute Fee)	<input type="checkbox"/> 45,000/- (Tuition Fee + Institute Fee)

*The above fee is under revision and likely to increase.

Hostel fees and Mess fee will be charged semester-wise. Approx. hostel charges and Mess charges per semester are given below:

Mess Fee	<input type="checkbox"/> 16000/- semester-wise
Hostel Fee	<input type="checkbox"/> 15000/- semester-wise

*The above fee is under revision and likely to increase.

At the time of Reporting in-person at IIIT Ranchi, the students are required to pay the Hostel and Mess Fee to the respective hostels.

8. MEDICAL FITNESS

- (a) Candidates must be in good health. A candidate is required to submit a medical certificate (as per Annexure II) at the time of reporting at IIIT Ranchi, signed by the chief medical officer (CMO) or equivalent of a government hospital.
- (b) The candidate must check his/her eligibility criteria (wherever applicable) as given in Annexure - 2 about colour blindness.
- (c) A candidate will be allowed to take admission only if the certificate produced by the candidate is verified to be satisfactory by IIIT Ranchi officials, whose decision in this regard will be final.

9. ADMISSION PROCEDURE

- (a) Application form is required to be submitted, which will remain available on the IIIT Ranchi website www.iiitranchi.ac.in from May 12, 2020 to June 26, 2020. The GATE candidates will also have to apply through the same process. **After filling the form, the candidates are advised to take a print of your application, fee receipt and other supporting documents and keep the same to produce at the time of written test and/or interview.** Candidates can also apply for more than one programme.
- (b) Non-refundable application fee of each programme for candidates is **Rs. 1000/-** for UR/EWS/OBC candidates and **Rs. 500/-** for SC/ST/PC/Women candidates. The application fee is to be paid by Payment Portal for Ph.D. Admission 2020-21 at **SBI collect.**
- (c) List of applicants shortlisted for further participation in the selection process such as written-test and/or Interview will be displayed on the Institute website. No separate communication/intimation in this regard shall be made by the Institute. The date and time of written-test and/or Interview will be informed only through the Institute website.
- (d) The **payment receipt** and **application form** in the prescribed format along with **supporting documents** in a **single PDF** should be sent on or before June 26, 2020 to the Email id: admission@iiitranchi.ac.in. The Email subject should be super scribed as **“PhD Admission (Full-time/Part-time) in ECE/CSE Department”**.
- (e) It is the responsibility of the candidate, to ensure that he/she satisfies all eligibility criteria for a particular programme, as mentioned in this information brochure.
- (f) The PhD admission will be based on the GATE score and/or written test and/or interview by the respective departments.
- (g) The following documents are required along with application form
- (i) Recent passport size photograph and signature.
 - (ii) Qualifying M.Tech Degree Marks-Sheet of final semester/ final year (4th semester / pre-final year marks-sheet for the ‘appearing candidates’ whose final semester / final year results are pending)
 - (iii) Qualifying B.Tech Degree Marks-Sheet of final semester / final year (7th semester / pre-final year marks-sheet for the ‘appearing candidates’ whose final semester / final year results are pending).
 - (iv) 10th & 12th Passing Certificate and Mark sheet.
 - (v) Valid GATE score card as indicated in the application form (for GATE-candidates).
 - (vi) Caste certificate/EWS income certificate to avail seat reservation under respective reserved category. (The OBC (NCL) certificate as per Annexure I and issued on or after September 01, 2019). Parental Income Certificate for EWS category (as per GoI) must be produced by candidate in the format for ‘Admission to Central Educational Institutions (CEIS) under the Government of India’ and should be issued on or after September 01, 2019.
 - (vii) Physically Challenged (PC) persons are required to attach a certificate of disability from the authorized medical board attached to one of the following - Vocational Rehabilitation Centre (VRC) for Physically Handicapped persons/ Special Employment Exchange for Physically Handicapped/ Government Hospital (District and State level).
 - (viii) Endorsement certificate from the present employer (for Sponsored candidates).
- (h) The candidate is to Report in-person at IIIT Ranchi on the scheduled date, time and venue for appearing the written test and/or interview and completing his/her admission. If the candidate fails to report at the test/admission venue in-person along with the requisite documents in original by that date and time, he/she will not be considered afterwards for admission.

- (i) In addition to original copy of above-mentioned documents following documents must be produced by the selected candidates at the time of **reporting/joining** to IIIT Ranchi to complete his/her Admission:
- (i) Copy of Admission fee payment receipt.
 - (ii) The Migration Certificate or College Leaving Certificate.
 - (iii) Medical fitness certificate as per Annexure II.
 - (iv) 4 passport size and 10 stamp size colour photographs.
 - (v) Undertaking regarding not claiming scholarship for sponsored candidate.
 - (vi) Certificate for degree equivalence (if applicable).
 - (vii) It is important for the 'Appearing candidates' to note that their admission will be provisional even after completing all other procedures & formalities which will be confirmed only after submission of final semester / final year marks-sheet of qualifying degree and college leaving certificate / migration certificate in original to the Academic Section through the coordinators of the respective M. Tech. Programmes latest by August 31, 2020. Such candidates will not be entitled for any scholarship till confirmation of their admission, if otherwise eligible. Failure to submit the requisite document by the stipulated date will lead to cancellation of admission of all such candidates and names of all such candidates will be deleted from the rolls of the Institute w.e.f. September 01, 2020 without further notice. In such cases the candidates will be refunded only caution money deposited at the time of admission.
- (j) The documents of the candidates will be verified by IIIT Ranchi officials. Admission of only those candidates, whose documents are found in order and verified as satisfactory, will be confirmed.
- (k) All other formalities related to identity card, hostel and bank account, etc. will be completed subsequently by the candidate.
- (l) Mess fee for the first semester have to be paid at the time of Reporting to IIIT Ranchi. Caution money is refundable only after completion of the Programme.

10. OTHER IMPORTANT POINTS

- (a) In the event of any information being found false or incorrect or incomplete or non-eligibility being detected at any time before or after admission, his/her candidature is liable to rejection without further communication.
- (b) Students are required to observe prescribed Rules & Regulations and orders issued by the IIIT Ranchi authorities from time to time.
- (c) The rules for GATE scholarship are as follows:
 - (i) The Assistantship will be awarded in the first instance on the basis of GATE score.
 - (ii) The continuation of the Assistantship during each semester is contingent upon Academic and Research performance.

11. DISCLAIMER

This website has been launched to provide candidates and public-at-large, information about IIIT Ranchi PhD Admission. If you do not agree to the terms and conditions given below, do not access this site or any pages thereof.

COMMUNICATION WITH IIIT RANCHI

1. Any further query/communication through email should be addressed to jkmishra@iiitranchi.ac.in (FIC Research, IIIT Ranchi) with full identification of the candidate, i.e., name, email, mobile, Programme name(s), category, GATE/Sponsored and other identifying codes given by IIIT, Ranchi. *Before asking a query a candidate must go through this Information Brochure / instructions in the Institute website properly.*
2. IIIT Ranchi will not issue any letter by post to any candidate regarding any admission related activity. The candidate must visit the institute website (www.iiitranchi.ac.in) regularly in this regard for any update / instruction / result / announcement.

ANNEXURE – I

**FORM OF CERTIFICATE TO BE PRODUCED BY OBC (NON-CREAMY LAYER) APPLYING FOR
ADMISSION TO CENTRAL EDUCATIONAL INSTITUTIONS (CEIs), UNDER GOVERNMENT OF INDIA**

This is to certify that Shri/Smt./Kum. _____ Son/Daughter of
Shri/Smt. _____ of Village/Town _____ District/Division
_____ in the _____ State 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. 12015/9/2000-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.

N.B. Strikeout whichever resolutions (i-xv) is/are not applicable.

Shri/Smt./Kum. _____ and/or his family
ordinarily reside(s) in the _____ District/Division of

_____ State. 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 and further modified vide OM No. 36033/3/2004-Estt. (Res.) dated 14/10/2008 and OM36033/1/2013-Estt. (Res.) dated 27/05/2013 or the latest notification of the Government of India.

Dated:

District Magistrate/Deputy Commissioner/Competent
Authority (Seal)

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

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:
 - DistrictMagistrate/AdditionalMagistrate/Collector/DeputyCommissioner/AdditionalDeputy 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).
 - Chief Presidency Magistrate/Additional Chief Presidency Magistrate/Presidency Magistrate.
 - Revenue Officer not below the rank of Tehsildar' and
 - Sub-Divisional Officer of the area where the candidate and/ or his family resides.

ANNEXURE – II

**MEDICAL FITNESS CERTIFICATE OF APPLICANT
FOR ADMISSION IN PHD Admission 2020**

(To be provided by a Chief Medical Officer (CMO) or Equivalent of a Government Hospital)

I, Dr..... after examining (with necessary investigations)
Mr./Ms.....Son/Daughter of Mr./Mrs.....

born on....., certify that he/she has fairly sound constitution, and that he/she has no disease or physical or mental infirmity unfitting him/her now, or likely to unfit him/her in future, for active outdoor work as practical Engineer/Technologist which involves considerable fatigue and exposure.

The following are the results of tests, measurements, etc.:-

1. Mark of identification :
2. Weight :
3. Height (in cm) :
4. Blood Pressure :
5. Pulse rate (beats/min) :
6. Blood Group :
7. Abuse of substances (if any) : Smoking / Alcohol / Drugs / Any other
8. Chest measurements : Contracted:cm Expanded:.....cm
9. Vision: Right Eye: Near: Distant:
Left Eye: Near: Distant:
10. Colour Blindness, congenital or other disease of eye (if any):
11. Hearing: Right ear: GOOD / FAIR / POOR
Left ear: GOOD / FAIR / POOR
12. X-ray PA view of chest with proper identification mark : Satisfactory / Not satisfactory If not satisfactory, then specify why:
13. If any other abnormality noticed:
14. Remarks / Special Recommendations, if any:

Conclusion: Certified that the above mentioned student is free of any communicable disease and fit to stay in hostels provided by IIT Ranchi and attend classes with co-students.

Date :
Place :

(Signature and Seal)

Declaration by the candidate: I declare that all the statements above are true and correct to the best of my knowledge. I fully understand that I am responsible for the accuracy of all statements given.

Candidate's Signature with date: