

PH.D. ADMISSION NOTIFICATION
(FULL-TIME / PART-TIME)
FOR THE SESSION SPRING 2019



BIRLA INSTITUTE OF TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act 1956)
MESRA, RANCHI - 835215 (INDIA)

IMPORTANT DATES

Filling of online form commences from	19 September 2018
Last date to Apply Online	12 November 2018
Last date of receiving of completed filled-in Application Forms at BIT, Mesra	19 November 2018
Display of list of eligible candidates to be called of Written Test and Interview	30 November 2018
DATE OF ENTRANCE TEST	17 December 2018
Interview of the selected candidates	18 December 2018
Declaration of 1 st Provisional Selection List	19 December 2018
Admission from 20 December 2018 to 24 December 2018	
Classes will commence from 10 th January 2019	

CONTACT DETAILS:

Dean, Admissions & Academic Coordination,
Birla Institute of Technology,
Mesra, Ranchi - 835 215
Phone: PBX: 0651-2275444 / 896,
Extn. 4469, and 0651-2275868 (Direct)

E-mail: admissions@bitmesra.ac.in, dean.aac@bitmesra.ac.in

For any queries, candidates should see Ph.D. Ordinance 2018 available on the Institute website (downloadable as pdf document). For any further queries, candidates may contact the Dean, Academic Programme through e-mail at dean.ap@bitmesra.ac.in.

For any queries about the research areas and syllabi of the Tests, candidates may please contact the concerned Head of the Department by telephone or e-mail. (Please see Directory on the Institute website for contact details).

Candidates must visit our website <http://www.bitmesra.ac.in> regularly for updates and/or for any other matters related to the admission procedures.

HOW TO APPLY:

1. To start online application, click on the link, create 'username' and 'password' by clicking on "New users register here" when prompted. Do not share the username and password with any body else.
2. To apply for the Ph.D. program (Session Spring 2019), eligible candidates must complete and submit the application online [link available on Institute website www.bitmesra.ac.in]. Pay application fee through State Bank Collect (any nationalized bank) of Rs.2,950/- (General candidates) and Rs.1,770/- (for SC/ST candidates). Fee once remitted shall not be refunded under any circumstances.
3. Send a printout of the completed application form along with required enclosures (see List of Enclosures) in a A4 size envelope by Speedpost / reliable courier (means by which sender may track its movement on internet) to the office of **Dean, Admissions & Academic Coordination, Birla Institute of Technology, Mesra, Ranchi - 835215, to reach positively by the due date.**
4. Write "Application for Ph.D. Admission (Session Spring 2019)" on top of the envelope.
5. Applications reaching us after the due date are liable to be rejected / may not be processed.
6. Please do not print a blank form and fill it by hand as this will not be accepted.

IMPORTANT INSTRUCTIONS:

- Candidates should proceed to fill the Online Application Form only after they satisfy themselves that they fulfill all the eligibility criteria.
- You may use one application form to apply for Ph.D. in ONLY one Department.
- Please use separate application forms to apply for two or more Departments. Each application form must be complete in all respects and sent in a separate envelope along with all required enclosures as above.
- Candidates may apply for the Ph.D. program in a maximum of three Departments.
- The Department-wise list of eligible candidates with registration number will be displayed on the Institute website before 7-10 days of Ph.D. Entrance Test.
- Candidates whose names appear in the lists may note their Registration Numbers and should come to attend the Entrance Test and Interview. They are advised to carry a photocopy of their completed application form at the time of Test and Interviews. No individual intimation will be sent to candidates.
- **No Admit Card will be issued to candidates.**
- Candidates whose names do not appear in the lists of eligible candidates, may contact the Admissions Office at Mesra by telephone or email.
- Candidates must carry valid Photo identification at the time of Written Test. (Driving license, Passport, PAN Card, Voter ID, Aadhar Card, Employee Identification Card are acceptable)

MINIMUM ELIGIBILITY CRITERIA:

Candidates with following qualification shall be eligible for admission to the Ph. D. Program of the Institute:

- (a) Candidates possessing M.Tech./M.E./M.Sc. (Engg.)/M.Arch./M.Pharm./M.Plan./M.Sc./MCA/MBA or equivalent Degree in relevant branch from a recognized University/Institute with minimum 60% marks or 6.0 CGPA on a ten point scale in the qualifying examination are eligible to apply for admission in the relevant departments.
- (b) Candidates possessing B.Tech./B.E./B.Sc.(Engg.)/B.Pharm/B.Arch./B.Plan. or equivalent Degree in relevant branch from a recognized University/Institute with a minimum of 80% marks or 8.0 CGPA on a ten point scale in the qualifying examination and a valid GATE/GPAT score with a minimum of 80 percentile are eligible to apply for admission in the departments as per their Specialization. (In this case, the candidates need to pass in more numbers of qualifying Pre-PhD papers; the concerned detail is described in Ph.D. Ordinance 2018 -Section 9.1).
- (c) Sponsored candidates must have minimum of two years of professional work experience, besides fulfilling the above criteria. In addition, such candidates should have valid sponsorship at least for three years.

RELAXATION FOR SC/ ST CANDIDATES

Eligibility criteria will be relaxed by 5% marks for SC / ST candidates.

Note:

1. NOC from the Institute is mandatory for employees of the Institute which shall be obtained before appearing at the admission test for the Ph.D. program.
2. Employees from other organizations shall produce NOC from his/her respective employers at the time of admission.
3. In case of the candidates with other grade point scale, the decision of the equivalence made by the assigned committee of the Institute shall be final.

FELLOWSHIP AVAILABLE:

A limited number of Institute Research Fellowship (IRF) with a fellowship amount of Rs. 25,000/- per month for first two years and Rs. 28,000/- per month for next two years is available. These IRFs shall be distributed based on the performance in the admission test, academic carrier and interview. Ph.D. admission test is mandatory for candidate aspiring for the IRF.

DEPARTMENTS OFFERING PHD. PROGRAM:

1. Architecture
2. Bio-Engineering
3. Chemical Engineering
4. Chemistry
5. Civil & Environmental Engineering
6. Computer Science & Engineering
7. Electrical & Electronics Engineering
8. Electronics & Communication Engineering
9. Management
10. Mathematics
11. Mechanical Engineering
12. Pharmaceutical Science & Technology
13. Physics
14. Production Engineering
15. Remote Sensing
16. Space Engineering & Rocketry.

SELECTION PROCEDURES:

Selection to the Ph.D. program would be based on performance in a Written Test, Previous academic record and an Interview. Only such candidates, who obtain the minimum required marks in Aptitude Test, Subject Specific Test and the indicated total percentage of marks, will be considered for final preparation of result as given below:

Category of applicant	Aptitude Test (100)	Subject Test (100)	Academic Record (60)	Interview (40)	Total (300)
General	30%	30%	-	-	50%
SC / ST	25%	25%	-	-	45%

Note: Up to 20% of the selected candidates for admission of the respective Department may be allotted to Part-Time candidates depending upon their position in the merit list.

DATE, TIME & VENUE OF THE ENTRANCE TEST & INTERVIEW:

The Ph.D. Entrance Test will be conducted on 17th December 2018 from 9:00 am to 6:00 pm at the Institute Main Building in the Institute's Campus at Mesra, Ranchi- 835215.

The Ph.D. Entrance Test will consist of 2 parts

a) General Aptitude Test common to all applicants,	From 9:00 am to 10:30 am
b) Subject Specific Tests to examine basic fundamental knowledge in the subject, from	<ul style="list-style-type: none">From 11:00 am to 1:00 pm for candidates applied for only one DepartmentFrom 11:00 am to 1:00 pm & 1:30 pm to 3:30 pm for candidates applied for two DepartmentsFrom 11:00 am to 1:00 pm & 1:30 pm to 3:30 pm & 4:00 pm to 6:00 pm for candidates applied for three Departments

The syllabi of the Subject Specific Tests for each Department can also be seen on the Department web pages on the Institute website.

DATE OF INTERVIEWS:

The interview process of the selected candidates will be conducted on 18th December 2018 from 10:00 am onwards in the concerned Departments.

Provisional selection lists, along with procedures for admissions, will be notified by 6:00 pm on or before 19th December 2018, on the Institute website and Notice Boards of the Institute only. **No separate intimations will be sent to candidates.** Provisionally selected candidates will be required to take admission by the date given, failing which vacant seats may be allotted to waitlisted candidates. The list of waitlisted candidates will also be announced on our website and Institute Notice Boards only. **No separate intimations will be sent to candidates.**

Candidates provisionally admitted to the Ph.D. program will be required to fill an "Enrollment Form" with details of their proposed field of research, research topic, and name of their guide, within 7 to 10 days after their admission, and submit the same to the Office of Dean (Academic Programme), through the Head of the concerned Department. [The Enrollment Form will be available on the Institute website and at office of the Dean, Admissions & Academic Coordination].

EXEMPTION FROM THE ENTRANCE TEST:

Those with UGC-CSIR/DBT/BINC/ICMR JRF and all other similar all India fellowships based on a written test may be exempted from the Entrance Test but will be required to appear for interview.

Note: Candidates will not be entitled to get any kind of financial assistance from the Institute.

LIST OF ENCLOSURES REQUIRED TO BE SENT ALONG WITH THE APPLICATION FORM:

Candidates must enclose photocopies of the following documents with the duly completed Application Form:

1. Pass certificate and marksheet of Class 10
2. Marksheet of Class 12 / Intermediate or equivalent
3. Certificate and marksheets of Graduation
4. Certificate and marksheets of Post-Graduation
5. College Leaving Certificate
6. Migration Certificate
7. Candidates with qualifications acquired through correspondence or distance-learning programs are eligible only if (a) they acquired such qualifications as working professionals / while in employment, (b) the programs are recognized by the DEC-UGC-AICTE or MHRD, (c) they have passed the qualifying examination at the time of applying, with minimum requisite marks as given in eligibility criteria. They must enclose photocopies of (i) work experience certificate (ii) pass certificate and marksheets of qualifying examination (iii) proof of the program recognized by the DEC-UGC-AICTE or MHRD in letter head of the Institute/College /University, with their application.
8. UGC-CSIR/DBT/BINC/ICMR JRF and all other similar all India fellowships based on a written test for pursuing Ph.D. Admit card and Score card (if applicable)
9. Caste certificate / special category certificate (if applicable) in proper format (see below)
10. Payment receipt towards application fee of Rs.2,950/- (General) and Rs.1,770/- (SC/ST) candidates (non-refundable)
11. Sponsorship letter, NOC, Experience Certificate and Facilities available to carry out the research work at their place of working (if applicable) for Sponsored / Part-Time candidates.
12. One recent colour photograph - [same as uploaded on the form] and attached by clip
13. Photo identification: (Driving license, Passport, PAN Card, Voter ID, Aadhar Card, Employee Identification Card are acceptable)

Write your Name, your telephone number and “Ph.D. Spring 2019” on the back of each of these documents and certificates. All such papers must be stapled or stitched to the form.

- **All candidates belonging to the SC and ST categories must note and obtain caste certificates which should be in proper format, and should be signed by appropriate authority of rank not less than SDO. (Note: Final reservation proportion will depend on notification, if any, issued by competent authority and as accepted by the Institute).**
- Candidates belonging to Persons with Disability [PwD] category must send photocopy of relevant certificate(s) in proper format **signed by appropriate authority.**
- **Do not enclose any original certificates with your application at this stage.**
- **The Admissions Office / concerned Departments may not undertake detailed scrutiny of applications before Test / Interviews, and all shortlisted applicants called for Test / Interviews, except those whose applications are summarily rejected, are allowed to appear at the Test / Interviews on purely provisional basis, subject to their eligibility being verified at the time of interviews. Merely being allowed to appear at the Test / Interviews will not be considered as a ground for being eligible for admission to the Ph.D. program. Further, mere submission of application form does not entitle a candidate to appear for the Test / Interviews.**

DOCUMENTS REQUIRED DURING ADMISSION:

Candidates must bring original of the following documents at the time of interview and admission along with one set of photocopies of the same:

1. Pass certificate and Marksheet of Class 10 (bearing date of birth)
2. Marksheet of Class 12 / Intermediate or equivalent
3. Certificate and Marksheets of Graduation
4. Certificate and Marksheets of Post-graduation
5. College Leaving Certificate
6. Migration Certificate
7. Candidates with qualifications acquired through correspondence or distance-learning programs are eligible only if (a) they acquired such qualifications as working professionals / while in employment, (b) the programs are recognized by the DEC-UGC-AICTE or MHRD, (c) they have passed the qualifying examination at the time of applying, with minimum requisite marks as given in eligibility criteria. They must enclose photocopies of (i) work experience certificate (ii) pass certificate and marksheets of qualifying examination (iii) proof of the program recognized by the DEC-UGC-AICTE or MHRD in letter head of the Institute/College /University, with their application.
8. UGC-CSIR/DBT/BINC/ICMR JRF and all other similar all India fellowships based on a written test for pursuing Ph.D. Admit card and Score card (if applicable)
9. **Caste certificate / special category certificate (if applicable) in proper format, signed by appropriate authority.**
10. Sponsorship letter, NOC, Experience Certificate and Facilities available to carry out the research work at their place of working (if applicable) for Sponsored / Part-Time candidates.

RESIDENTIAL REQUIREMENTS:

The residential requirement is essential to build the research atmosphere in the Institute. The residential requirement for part time Ph.D. candidates shall be a minimum period of one semester at the Institute for the candidates having PG degree and two continuous semesters at the Institute for the candidates having B.Tech./B.E/B.Sc.(Engg.)/B.Pharm/B.Arch./B.Plan. or equivalent Degree. However, for full time scholars, the minimum residential requirement is of six semesters.

FEE STRUCTURE:

S.No.	Description	Fee (INR) Main Campus / Off Campuses	Fee (USD) Offshore Campuses	Remarks
1.	Admission Fee	5000.00	500.00	Payable at the time of admission
2.	Infrastructure Fee (One time non-refundable)	20000.00	2000.00	Payable at the time of admission
3.	Caution Money (Refundable)	10000.00	1000.00	Payable at the time of admission
4.	Registration Fee for Pre-Ph.D. Qualifying Examinations	2000.00 (per course)	200.00 (per course)	Payable at the time of registration for the Pre-Ph.D. Qualifying Examination
5.	Semester Fee: Full-time Research Scholar	20000.00	3000.00	Payable in each semester at the time of admission and registration
	Part-time Research Scholar (Employees of BIT)	20000.00		
	Sponsored / Part-time Research Scholar (External)	40000.00		
6.	Thesis Submission Fee	20000.00	2000.00	Payable at the time of submission of thesis

Refund rules for the Ph.D. program

- If a student withdraws / leaves the Institute for any reason in the mid-session without completing the entire program, all fees paid including the caution money will be forfeited by the Institute.
- If a student with fellowship (Institute / QIP / Project / External) withdraws / leaves the Institute in the mid-session without completing the program, the entire amount paid to him / her towards fellowship need to be returned by the student before leaving the Institute.

NUMBER OF SEATS AVAILABLE

BIT Mesra (Main Campus)

Sl No.	Department	No. of vacancies
1.	Architecture	7
2.	Bio-Engineering	20
3.	Chemical Engineering	25
4.	Chemistry	10
5.	Civil & Environmental Engineering	11
6.	Computer Science & Engineering	24
7.	Electrical & Electronics Engineering	7
8.	Electronics & Communication Engineering	21
9.	Management	Nil
10.	Mathematics	8
11.	Mechanical Engineering	18
12.	Pharmaceutical Science & Technology	22
13.	Physics	14
14.	Production Engineering	12
15.	Remote Sensing	8
16.	Space Engineering & Rocketry	10

BIT Extension Centres

Sl No.	Campus	Department	No. of vacancies	Broad area of research available in the Dept of Management at Extension Centres
1	BIT Deoghar Campus	ECE	2	-
		Computer Science & Engg.	2	-
		Mechanical Engineering	1	-
		Production Engineering	1	-
2	BIT Jaipur Campus	Chemistry	1	-
		EEE	4	-
		Management	2	Finance
3	BIT Noida Campus	Computer Science & Engg.	1	-
		Management	6	HR
4	BIT Patna Campus	Civil Engineering	4	-
		Computer Science & Engg.	6	-
		ECE	11	-
		Management	1	HR & Marketing
		Mechanical Engineering	5	-
		Physics	4	-

Note: Up to 20% of the selected candidates for admission of the respective Department may be allotted to Part-Time candidates depending upon their position in the merit list.

SYLLABUS FOR APTITUDE TEST

The General Aptitude Test for admission to the Ph.D. program (Session Spring 2019) shall comprise of 50 questions to be answered in 90 minutes. The test will be conducted at Mesra (Main Campus) only, as per date and timings mentioned under important dates.

Questions will be of subjective and objective type. **There will be no negative marking.** For each correct answer a candidate will earn 2 marks. If a question has not been attempted no credit will be given. The questions will be distributed into various areas as follows and the detailed syllabus is given below:

Section	Subject	No. of Questions
A	Analytical Ability and Logical Reasoning	25
B	Test of English Language	25
Total		50

Section A: Analytical Ability and Logical Reasoning: (25 questions - objective type)

This section will test the logical reasoning and visio-spatial reasoning abilities of the candidate.

Section B: Test of English Language: (25 questions - Subjective and objective type)

This section will test the competence of the English language.

SYLLABUS FOR SUBJECT SPECIFIC TEST: [Please see separate link](#)