

Institute of Infrastructure Technology Research And Management (IITRAM)

Ph. D. 2018-19 (Autumn Semester) Admission Policy and Procedure

Institute of Infrastructure Technology Research and Management (IITRAM) Ahmedabad, offers an opportunity to bright and dedicated young scholars to join as fulltime Ph.D. scholars. Currently, Institute offers Ph.D. programmes in Civil Engineering, Electrical Engineering, Mechanical Engineering, Humanities and Social Sciences (Economics) and Basic Sciences (Chemistry, Mathematics including Statistics, Physics). Applications are invited from eligible candidates in these fields for the academic year 2018-2019 (Autumn Semester). The admitted candidates are eligible to receive, BoG approved Institute monthly fellowship on par with MHRD, GoI.

Prospective students satisfying the eligibility criteria are advised to acquaint themselves before applying with the research areas of the faculty members of Institute for suitable match of interest.

1. Minimum Eligibility Criteria:

Candidate shall possess the following in appropriate subject areas:

Engineering/Technology:

Master's Degree in Engineering/Technology or equivalent degree, with First Class* or 60% marks (55% marks for SC/ST) and Bachelor's degree in Engineering/Technology with First class* or 60% marks (55% marks for SC/ST).

Science, Humanities and Social sciences, Management

(i) **Science:**

Master's degree in Science or Engineering or equivalent degree, with First class* or 60% marks (55% marks for SC/ST) and, Bachelor's degree in Science or Engineering with First class* or 60% marks (55% marks for SC/ST)

(ii) **Humanities, Social Sciences and Management:**

Master's degree in Arts /Commerce or equivalent degree with First class* or 60% marks (55% for SC/ST), Bachelor's degree in Arts/Commerce with First class* or 60% marks (55% marks for SC/ST)

*Note: *First Class/60% in the qualifying degree examination as the eligibility requires meeting ANY ONE of the following criteria:*

I. For general category candidates:

- 1. a minimum of 60% marks in the final academic year of the programme.*
- 2. a minimum of 60% marks in aggregate or as specified by the university (any one of them).*
- 3. a First Class as specified by the university.*
- 4. A minimum Cumulative Grade Point Average (CGPA) or Cumulative Performance Index (CPI) of 6.0 on the scale of 10; with corresponding proportional requirements when the scales are other than on 10,(for example, 4.8 on a scale of 08.)*

II. For SC/ST category candidates:

1. a minimum of 55% marks (50% in humanities) in the final academic year of the programme.
2. a minimum of 55% marks in aggregate (50% in humanities) or as specified by the university (any one of them).
3. a First Class as specified by the university.
4. a minimum Cumulative Grade Point Average (CGPA) or Cumulative Performance Index (CPI) of 5.5 on the scale of 10; with corresponding proportional requirements when the scales are other than on 10,(for example, 4.4 on a scale of 8).

- Sponsored Candidate [College/Polytechnic Teacher/Government Organization/Public Sector Unit, Only]

Students under this category are sponsored by their employers for doing re- search work in the Institute. They are expected to be released for fulltime course work and research at the Institute for a minimum period of three years. This category also includes the students who are released from Governmental or educational institutions on study leave for a period not less than three years for doing research work at the Institute. They will not receive any financial support from the Institute. Sponsorship letter as per the prescribed proforma from time to time should be submitted at the time of written test and/or interview. Minimum 1 Semester course work(full time) is mandatory at the institute in first year of admission.

For candidates satisfying minimum eligibility criteria, following additional credentials (as applicable) are desirable:

- (a) Valid GATE/CEED score.
- (b) Junior Research Fellowship (JRF) of CSIR/UGC/NBHM/DBT or DST INSPIRE Fellowship or UGCNET Lecturership (LS).
- (c) Minimum 2 years of professional experience (acquired after obtaining the qualifying post graduate degree and completed before the starting of the semester in which admission is sought).

Note:

Candidates Satisfying (a) and (b) of the desirable shall be exempted from written test conducted by the institute as a part of the Ph.D. admission process.

2. Course Credit Requirements:

Sr No	Candidate having	Range of Credit requirement	Remarks
1	M.Tech., M.Arch./MURP, MCA or M.Tech. (Integrated/ IDD) or Equivalent Degree.	Minimum 4 theory courses with at least 10 credits from theory courses. In addition to above, 2 credits from seminar. A total of minimum 12 credits are required.	Courses From the existing M.Tech and/or pre-Ph.D. courses offered by own Dept./other Depts.
2	M.Sc./M.A./M.B.A. or equivalent ad- mitted to Science/ HSS/ Management department	Minimum 5 theory courses with at least 14 credits from theory courses. In addition to above 2 credits from seminar.A total of minimum 16 credits are required.	Courses From the ex- isting PG level and/or pre-Ph.D. courses of- fered by own Dept./ other Depts.

Note: All research scholars in Engineering & HSS have to take minimum 2 core theory subjects.

3. Admission Procedure:

Step I: Fill up the Application Form Online

The application form is available on the Institute website - **www.iitram.ac.in**.

Fill it up properly and submit the duly filled form online. Incomplete applications will be rejected.

(Note: There is no application fees.)

Step II: Send Hardcopy of Application form to IITRAM

It is mandatory to send filled and duly signed hardcopy of application form with necessary self-attested photocopies of documents, so as to reach IITRAM on or before 25th JUNE.,2018 (By 17:00 Hrs.).

(Note: The applications made only online but without submission of hardcopy will be rejected.)

Step III: Selection:

Admission is offered on the basis of performance in written test followed by an interview. The syllabus for the written test is available on the Institute's website. The Departmental Research Committee will shortlist the candidates for written test for Ph.D. admissions. Merely satisfying the eligibility criteria does not guarantee for being called for test/interview.

The candidates shortlisted for the Interview will have to submit a tentative Research Proposal at the time of Interview.

The Research proposal may contain:

- Broad Field of objectives, State of Art, Methodology planned and expected outcome.
- The candidates shortlisted for the Interview can present their tentative research proposal through power point presentation /write-up during the interview.

(Note: The candidates called for written test and interview will have to bear all the travel cost/expenditure.)

Step IV: Physical Verification of Documents & Confirmation of Admission:

The candidates will have to remain present at IITRAM in person for physical verification of documents as per dates mentioned in the schedule below. The candidates shall present two sets of self-attested photocopies of all the relevant documentary evidences along with the originals and two passport size photographs. All the originals will be returned immediately after the verification on the same day. The candidates will have to confirm their admission upon paying the fees as per the schedule.

4. Important Dates:

Particulars	Important Dates
Opening of Application Portal and submission of online application	23 rd May., 2018 to 21 st June., 2018
Last date for submission of hardcopy of Application form with all necessary enclosures	25 th June.,2018 (By 17:00 Hrs.)
Announcement of short-listed candidates for written test and interview	3 rd July.,2018 (By 17:00 Hrs.)
Conduct of Written test & Physical verification of documents followed by Interview	20 th July.,2018
Display of result	25 th July.,2018
Payment of Fees	26 th July., 2018 to 3 rd August., 2018
Commencement of Term	6 th August., 2018

5. Fees Structure:

The candidates who have been offered admission shall have to pay the fees as shown below:

Semester Fees:	
<input type="checkbox"/> Tuition Fees	Rs.20,000/-
<input type="checkbox"/> Tuition Fees for SC/ST /SEBC candidates	Rs.15,000/-
<input type="checkbox"/> Tuition Fees for Sponsored candidates	Rs.35,000/-
<input type="checkbox"/> Tuition Fees for Sponsored SC/ST/SEBC candidates	Rs.30,000/-
<input type="checkbox"/> Hostel Fees	Rs.6000/-
<input type="checkbox"/> Mess Fees # (For Breakfast, Lunch, Dinner and Snacks) (Rs. 143/- per day as of now)	Rs.19,448/-
<input type="checkbox"/> Stationery Fees	Rs.1000/-
Yearly Fees:	
<input type="checkbox"/> Insurance Charges	Rs. 1600/-
One Time Fees:	
<input type="checkbox"/> Institute Caution of Money (Refundable)*	Rs.1500/-
<input type="checkbox"/> Hostel Caution Money (Refundable)**	Rs.5000/-
<input type="checkbox"/> Mess Caution Money (Refundable)***	Rs.4000/-

*Refundable at end of Programme

**Refundable at end of Hostel Stay

*** Refundable at end of Hostel stay

Adjusted at end of Semester

Students not staying in the Hostel and not availing the mess facility are exempted from the payment of Hostel and mess related fees. The above Fees have to be paid through a Demand Draft drawn in favour of “Registrar, IITRAM”, payable at Ahmedabad. The fee is subject to revision from time to time. No request for the fees refund shall be entertained.

6. Hostel and Mess Facilities:

The Hostel and Mess related fees are applicable to those candidates only who have been offered admission to IITRAM and are keen to avail the Hostel and Mess Facilities. Such candidates should apply for the admission to Hostel and mess at time of physical verification of documents at IITRAM Campus. All the Hostel and Mess rules will be applicable to the candidates availing these facilities.

7. Financial Support:

Students joining Ph.D. programme as Regulars will be considered for Institute fellowship as per following norms:

Sr. No.	Description	Qualifying Degree	Institute Fellowship (Per month)
1	Science, Humanities and Social Sciences, Management	Post Graduate Degree(M.Sc./M.A./equivalent)	25,000/-
2	Engineering & Technology	Post Graduate Degree in Professional Course (M.E./M.Tech. or equivalent)	28,000/-

The admitted research scholars shall mandatorily perform the duty as Teaching Assistant. The continuance of the fellowship shall be subjected to the satisfactory academic performance of the Research scholar.

8. List of Potential Supervisor 2018-19 For Autumn-2018 Semester

Sr. No	Department	Name	Research Areas
1	Civil	Dr. Vikas Pratap Singh	Analytical / Experimental / Computational Study in any topic of Geotechnical Engineering
2	Civil	Dr. Manoj Langhi	1. Computational hydraulics with free surface flow 2. Sediment transport in river flow
3	Civil	Dr. Trudeep Dave	1. Geo-synthetics and ground improvement 2. Soil structure interaction

4	Civil	Dr. Mamta Sharma	1.Stability of concrete structures: analytical and computational work 2.Stability of concrete structures: experimental work
5	Civil	Dr.Veerbhadrapa M. Rotte	1. Slope stability of ash pond dams 2. Improvement in engineering properties of soft soil
6	Civil	Dr. Kannan Iyer	1.Monitoring of Slope Stability 2. Smart and Sustainable Materials for Civil Engineering Application
7	Civil	Dr. Kashyap Patel	Structural Engineering
8	Civil	Dr. Himanshu Sharma	1.Pollutant transportation in streams 2. Implication of turbulence on sediment transportation
9	Civil	Dr. Jiten Shah	1.Analysis of Traffic flow and its modelling 2. Pedestrian flow studies
10	Electrical	Dr. Manish Sharma	Digital Signal Processing, Machine Design and Biomedical Signal Processing
11	Electrical	Dr. Krupa Shah	Electrical Machines, Power Systems and Power Electronics
12	Electrical	Dr.Kshitij Bhargava	1) Optimization and design of Thin Film Solar Cells 2) Modelling of Gate All Around Cylindrical MOSFETs 3) Performance optimization of Thin Film Phototransistors
13	Electrical	Dr. Raghavendra H. Bhalerao	Image processing for remote sensing applications
14	Mechanical	Dr. Bhingole Pramod	Material Science and biomaterials

15	Mechanical	Dr. Ram Kumar	Material Joining process, Polymers and Composites, and Design Engineering
16	Mechanical	Dr. Kumar Abhishek	Broad Area of Research: Machining of metals and composites, Optimization techniques, Modelling and Simulations, Decision making in manufacturing.
17	Mechanical	Dr. Saurabh Yadav	FEM Analysis and Dynamics.
Sr. No	Department	Name	Research Areas
1	Physics	Dr. Brajesh Tiwari	Investigation of emergent behaviour in low-dimensional materials and their potential applications. Ferroics under different geometries.
2	Humanities and Social Sciences – Economics	Dr. Pravin Jadhav	Infrastructure Management in India and Foreign Direct Investment (FDI) and International trade in Emerging market
3	Chemistry	Dr.Sourav Das	1). Design and synthesis of new polyoxometal and it's applications 2). Design and synthesis multifunctional lanthanide based complexes

9. Condition Precedent:

The above policy and procedure is subject to modification. If a dispute arises regarding any of the above provisions, the decision of the Registrar/Director General/Competent Authority of the Institute shall be final and binding to all and is subject to Ahmedabad jurisdiction.