Admission to Ph.D. Programmes 2014-15

IIT Jodhpur invites applications for admission to Ph.D. programmes for the Semester commencing from December 2014.

The aim of the Ph.D. Program is to develop graduates having good knowledge and research training in classical and emerging areas. IIT Jodhpur hosts Ph.D. program in all areas of technology, engineering, sciences, and humanities and social sciences. For the Semester commencing from December 2014, applications are invited in the following disciplines:

1. **Biology:** Ph.D. positions are open in following areas- Biomaterials and Cellular & molecular neuroscience
2. **Chemistry:** Ph.D. positions are open in following areas- Theoretical and Computational Chemistry, Molecular Modelling, Computational Biophysical Chemistry, Dye Sensitized Solar Cells, Photocatalysis
3. **Computer Science and Engineering:** Ph.D. positions are open in following areas- Pattern Recognition and Machine Learning, Image and Video Analysis
4. **Electrical Engineering:** Ph.D. positions are open in following areas- Wireless communication, Microelectronics, Power electronics and drives, Control Engineering
5. **Humanities and Social Sciences:** Ph.D. positions are open in following areas-
   A. *Economics:* Growth and Regional Disparity, Urbanization in India, Network Economics
   B. *English:* Literature and Environment/Ecocriticism, American Literature, British Literature, Post-Colonial Literatures.
   C. *Philosophy:* Specialization in Philosophy   (Allied areas: Psychology/Cognitive Science)
6. **Mathematics:** Ph.D. positions are open in following areas- Dynamical Systems with sufficient background in Analysis and Differential equations
7. **Mechanical Engineering:** Ph.D. positions are open in following areas- Dynamics of turbomachinery/ Rotating Machines, Flexible Robotics, Micro-Electro Mechanical Systems, Nonlinear Oscillations
8. **Physics:** Ph.D. positions are open in following areas- Astrophysics, Experimental and Theoretical Condensed Matter Physics, Quantum Information and Quantum Optics, Particle Physics

Detailed information about the research areas of Faculty Members in all the disciplines can be obtained from the Institute website at www.iitj.ac.in. The applicants are strongly encouraged to go through profiles of Faculty Members and to get familiar with their specialization and research interest.

1. *Application Procedure*

Applicants are requested to use the following link to fill and submit the application form online:

http://www.iitj.ac.in:8080/OA_PG_ADMISSION/

*For admission to the 2014-15 Second Semester commencing in December 2014, this online link will remain active till **8 November, 2014**.*

Applicants are required to pay the processing fee of Rs.300 for General and OBC applicants and Rs.150 for SC, ST, and PD applicants online while submitting the application form.

Applicants are requested to send online generated summary sheet and final submitted application duly signed along with a copy of GATE, NET, CSIR, UGC or NBHM score card to the address given below latest by 5 PM on *12 November 2014:*

Discipline _____ (write the name of discipline in which admission is sought)
Convener (Ph.D. Admissions)
Indian Institute of Technology Jodhpur
Old Residency Road, Ratanada
Jodhpur 342011
Rajasthan
Phone: (0291) 2449002, *Fax:* (0291) 2516823

2. The Institute admits students to the doctoral degree programmes in three categories, namely

(a) Regular Full-Time Ph.D. Program

Students admitted in this category shall not be a registered student in any other academic program in India or abroad, and shall not be a full-time or part-time employee of any organization in India or abroad. The students shall be eligible for financial assistance in the form of *Teaching Assistantship* or *Research Assistantship* as per norms of the Institute, or Scholarship or Fellowship as per norms of the funding agency, *e.g.,* UGC, CSIR, DBT, NBHM and DST-INSPIRE.

(b) Part-Time Ph.D. Program

Students admitted in this category shall be a full-time employee of a recognized Institute, University or Organization. The student shall not be eligible for any financial support, and needs to get her/his application forwarded by her/his employer. The student shall complete the minimum course and residence requirements at IIT Jodhpur; she/he can undertake research at a location other than the Institute.

(c) Sponsored Ph.D. Program

Students admitted in this category shall be a full-time employee and sponsored by Industry, Organization and National Laboratory equipped with research facilities and recognized by Department of Science and Technology (DST). The student shall not be eligible for any financial assistantship from the Institute. The student shall be allowed to carry out a part or all of her/his research in the parent Industry, Organization or National Laboratory, under the supervision of a *Supervisor from IIT Jodhpur* and a *Co-Supervisor from the parent Industry, Organization or National Laboratory*. The Co-Supervisor

should have earned a Ph.D. Degree herself/himself in the area of the research work of the student.

3. Eligibility for Admission

The eligibility criteria prescribed below are the absolute minimum. The Selection Committee may prescribe requirements over and above these.

(a) Ph.D. Program in an Engineering discipline

1. Applicants with a Master's degree in Engineering namely M.Tech., M.E., M.Sc. (Engineering) or MS by Research with at least 60% marks or at least 6.5/10 Cumulative Performance Index (CPI) or Cumulative Grade Point Average (CGPA). Such students are required to have at least 60% marks or 6.5/10 CPI or CGPA in Bachelor's degree.
2. Applicants with a Master's degree in Sciences with at least 70% marks or at least 7.0/10 CPI or CGPA with a valid GATE, CSIR, UGC or NBHM score card. Such students are required to have 70% marks or 7.0/10 CPI or CGPA in Bachelor's degree.
3. Applicants with a Bachelor's degree in Engineering with
    (i) a B.Tech., B.E. or B.Sc. (Engineering) degree with at least 80% marks or at least 8/10 CPI or CGPA and a valid GATE score, and
    (ii) a B.Tech. degree from any of the IITs with at least 8/10 CPI or CGPA with a valid GATE Score Card.
4. Applicants with Master's degree in Engineering from a University or an Institute abroad with at least 60% marks, 3.0/4 CPI or CGPA, or 8.0/10 CPI or CGPA.

(b) Ph.D. Program in Science discipline

1. Master's degree in Sciences with at least 60% marks or at least 6.5/10 CPI or CGPA with a valid GATE, CSIR, UGC score card or equivalent. Such students are required to have at least 60% marks or 6.5/10 CPI or CGPA in Bachelor's degree.
    Applicants holding Master's degree in Engineering also are eligible to apply for Ph.D. Programme in Sciences with at least 70% marks or 7/10 CPI or CGPA. Again, such applicants are required to have at least 70% marks or 7/10 CPI or CGPA in both the Bachelor's and Master's degree.
2. Applicants holding only Bachelor's degree in Engineering with
    (i) a B.Tech., B.E. or B.Sc.(Engineering) degree with at least 80% marks or 8/10 CPI or CGPA and a valid GATE score card
    (ii) a B.Tech. degree from any of the IITs with at least 8/10 CPI or CGPA or a valid GATE score card.
3. Applicants with Master's degree in Engineering from a University or an Institute abroad with at least 60% marks, 3.0/4 CPI or CGPA, or 8.0/10 CPI or CGPA.

(c) Ph.D. Program in Humanities and Social Science Discipline

1. Master's degree in Social Sciences, Sciences, Engineering or allied areas with at least 55% marks or 6.0/10 CPI or CGPA with a valid GATE, UGC or CSIR score.
2. Applicants holding only Bachelor's degree in Engineering with
    (i) a B.Tech., B.E. or B.Sc.(Engineering) degree with at least 80% marks or 8/10 CPI or CGPA and a valid GATE score card
    (ii) a B.Tech. degree from any of the IITs with at least 8/10 CPI or CGPA or a valid GATE score card.
3. Applicants with Master's degree in Engineering from a University or an Institute abroad with at least 60% marks, 3.0/4 CPI or CGPA, or 8.0/10 CPI or CGPA.

Part-Time and Sponsored students in any discipline: Three years of relevant experience is needed for those with M. Tech degree and five years of relevant experience is needed for those with B.Tech. or M.Sc. degree. This category is only for those who are working in research labs or in similar institutions. Please note that no financial assistance will be provided under this category.

4. *Financial Assistance*
Ph.D. students shall be offered *Teaching* or *Research Assistantships* in return for 8 hours of work per week. Institute will provide the financial assistantship to Ph.D. students enrolled in Regular Full-Time Ph.D. program as per funding agency norms.

5. *Reservation Policy*
The norms of reservation for different categories shall be adopted as laid down by the Ministry of Human Resource Development, Government of India.

6. *Important Dates*

Milestone	Date
Last date of filling online application form:	8 November 2014
Announcement of short listed applicants for the admission process	13 November 2014
Date of written test and/or Interview	8 December 2014

7. *Communication*
All communications related to Ph.D. admissions will be done only through email.