

Ph.D. Program at the IIT Rajasthan

Applications from suitable candidates are invited for admission to the doctoral program in Engineering, Sciences, and Humanities and Social Sciences at IIT Rajasthan. IIT Rajasthan is one of the new IITs established by the Government of India in the year 2008 in collaboration with France. The institute is presently located within the IIT Kanpur campus and is likely to shift to Jodhpur, Rajasthan in May 2010. Academic and research programs at IIT Rajasthan are currently being developed in collaboration with IIT Kanpur. Also, a consortium of French universities is engaged in developing the research programs and infrastructure at IIT Rajasthan. A strong interdisciplinary research culture is encouraged at the doctoral level. The sponsored research and development programs undertaken at IIT Rajasthan would be carried out in centers of excellence in the areas of information, communication, energy sectors, and technology for health care, economics of policy reforms, and liberal arts and social sciences. Active participation from both public and private sectors is envisaged. The prospective doctoral students are expected to take advantage of such a research network during the course of their stay at IIT Rajasthan and nurture a world class research culture at the Institute.

Application procedure:

Applications for Ph.D. admission are invited twice a year (June/Dec). The cost of application and information booklet is Rs. 300 for General category candidates. For physically challenged and the SC/ST candidates it is Rs. 150. This fee may be paid by a Demand Draft drawn in favor of “Director, IIT Rajasthan”, payable at Kanpur. After carefully reading the instructions given in the information booklet, the candidate must fill in the application form completely and send it to the following address: The Director, IIT Rajasthan, Helicopter Building, IIT Kanpur – 208016. Suitable candidates shall be called for an interview. Selected candidates shall be intimated via mail.

Ph.D. Thesis:

The doctoral program primarily involves working on a research thesis under the supervision of a doctoral committee. The convener of the doctoral committee acts as the primary thesis advisor. Interdisciplinary in research is the primary focus of the doctoral program at IIT Rajasthan which shall be carried out through collaborative work with the various disciplines under the Centers of Excellence. Prior to the commencement of the thesis work, the candidate may be asked to complete a minimum course credit as prescribed by the doctoral committee.

Other significant components of the doctoral program including the comprehensive examination and the state-of-the-art seminar are primarily structured around the research guidelines of IIT Kanpur, the mentor institute for IIT Rajasthan.

Admission criteria:

Ph.D. (Engineering): M. Tech./M.E./M.Sc. (Engg.) degree in the respective or allied area. Currently, Ph.D. programs with a focus on interdisciplinary are available in areas

related to Energy, Communication, ICT in Health, System Engineering, Industrial Systems, Automobiles and Space and Aerospace, among others.

Ph.D. (Sciences): M.Sc. degree in respective or allied area with first class (55% for SC/ST) or equivalent performance and a valid GATE/UGC/CSIR score.

Candidates with a Bachelors degree in engineering with distinction and/or with considerable industrial experience are also eligible to apply. Candidates interested in multidisciplinary research may apply to the Schools of Basic Sciences which offer research programs in Biological Sciences, Physics & Chemistry, Quantum & Nano Computing, and Mathematics & Statistics among others.

Ph.D. (Humanities & Social Sciences): First class (55% for SC/ST) or equivalent performance in M.A./M.Com or equivalent degree. Master's degree in Science/graduate degree in Engineering/Technology may be considered for some research areas. The institute also provides Assistantship to those who have passed an all-India test (NET) conducted by the CSIR/UGC/GATE in the last five years. Presently interdisciplinary research options are available in the areas of Cultural Studies, Fine Arts, and Social Sciences.

Selected candidates will be called for a final interview.

RESERVATION: Reservations will be 15% for SC, 7.5% for ST and 18% for OBC (non creamy layer) for the year 2010-11. Also, upto 3% reservation shall apply as per Government of India rules for persons with physical disability (PD).

Fee structure: The candidate who has been offered an admission into the Ph.D. program shall pay the stipulated fee which follows the general fee structure of the existing IITs. The Institute shall also recover from students a certain fee from semester to semester as per the general IIT guidelines. The fee amount is subject to revision from time to time. In addition, the institute shall collect deposits as and when necessary for availing its facilities.

Scholarship: The Institute shall provide scholarship for a specified duration to the eligible candidates as per the GOI norms (Fellowship as per the norm of GATE/CSIR/UGC/QIP/NBHM/DAE etc.) Sponsored candidates and Part-time Research Scholars do not belong to this category. As per MHRD directives, the employees of any organization undergoing Ph.D./Post-Graduate programs by availing study leave with or without pay are not eligible for Teaching/Research assistantships. Such candidates, if found suitable, will have to complete their program as Self-Financed/Sponsored full time or part time, as the case may be.

The students are encouraged and expected to complete the program in about four years time. The period of validity of Ph.D. registration for all candidates is six years from the date of confirmation of registration (which commences after successful completion of course credit requirements). However, the extension of fellowship for the entire duration of Ph.D. is not automatic and is subject to the institute rules.

As part of the training, Ph.D. students are expected to assist in running the undergraduate labs and in other teaching and research assignments.

Coursework requirements: An interdisciplinary doctoral committee shall be formed for each selected candidate and the convener of the committee shall perform the role of a primary advisor. Satisfactory completion of a set of courses (as recommended by the committee) followed by a comprehensive examination and state- of-the-art seminar is a prerequisite for final admission into the Ph.D. program.

Accommodation: IIT Rajasthan is a residential campus and suitable accommodation shall be provided to all the selected students. It may be noted that since the IITJ campus is still being built, the nature of accommodation provided may be temporary to begin with.