

Indian Institute of Technology Indore

Discipline of Physics

Advertisement for Admission to Ph.D. Program for Spring Semester of AY 2018-2019

Discipline of Physics invites applications for admission to the Ph.D. Program in the following research areas:

Condensed Matter Physics (Experimental):

Study of crystal and electronic structure, magnetic properties of functional materials; Nano materials, Magnetic/electronic materials with multiferroic properties; Synthesis/engineering/characterization (structure/physical) of nanostructured materials/thin film/single crystal/glassy forms of complex oxides/chalcogenides with semiconducting, superconducting, magnetic and optical properties; synthesis of composite materials for industrial applications, optical/magnetic multilayer, solar cell, etc.; Electrical Energy Storage- batteries and supercapacitors; Raman and photoelectron spectroscopy; Material characterization using synchrotron radiation, band structure of complex oxides; highly correlated electron system.

High Energy Physics, Particle physics (Theoretical):

Dark matter, Higgs physics, neutrino physics, and generally physics beyond the standard model.

Nonlinear Dynamics, Statistical Physics and Networks (Theoretical)

Description on admission categories, eligibility and important dates can be found on the main page: <http://academic.iiti.ac.in/phdadvt.php>.

Before applying online, the applicants are encouraged to visit <http://physics.iiti.ac.in> for detailed profiles of the following faculty members.

Faculty member	Area of Research	E-mail address	Admission category
Dr. Rajesh Kumar	Experimental Condensed Matter Physics	rajeshkumar@iiti.ac.in	FA / TA
Dr. Pankaj R. Sagdeo	Experimental/Theoretical Condensed Matter Physics	prs@iiti.ac.in	FA
Prof. Subhendu Rakshit	Theoretical High Energy Physics	rakshit@iiti.ac.in	FA / TA
Prof. Sarika Jalan	Nonlinear Dynamics, Statistical Physics and Networks	sarika@iiti.ac.in	FA (For project only)

Application Procedure:

1. Candidates must apply ONLINE through IIT Indore website. This will generate unique application number for each applicant. The last date for online application is **October 4, 2018**.
2. After submitting the application online, the candidate is required to send the signed hard-copy of the application along with State bank Collect receipt, recent photograph, self- attested relevant certificates to the DPGC Convener of concerned Discipline/Center/School within 8 days from the date of submission of online application.
3. Candidates should arrange for TWO or more recommendation letters to be sent in the attached format ([format link](#)) to 'phy_office@iiti.ac.in' with copy to 'admission-phy@iiti.ac.in' and 'dpgcphy@iiti.ac.in'.
4. Application fee Rs. 100/- should be paid through State Bank Collect only. (<https://www.onlinesbi.com/prelogin/icollecthome.htm>). The candidate may be asked to produce payment slip at the time of interview.
5. The candidate should submit the signed application along with all academic and relevant documents at the time of interview.
6. The shortlisted applicants will be called by email only for written test/interview. Please state your email id carefully.
7. No TA/DA will be provided to the applicants when called for the interview.
8. The decision of the Discipline in all matters will be final.