

INDIAN INSTITUTE OF TECHNOLOGY BHUBANESWAR
INFORMATION FOR PH.D. PROGRAMME

Indian Institute of Technology Bhubaneswar invites application for admission to Ph.D. Programme from candidates in the following categories:

1. **Regular** full-time scholars with Institute Assistance.
2. **Sponsored** Scholars: Candidates who possess the minimum prescribed qualifications and are in service in any of the following establishments shall be eligible for admission to the Ph.D. program as Sponsored Scholars:
 - i) Defence or other ministries of the Government of India or any other government organizations;
 - ii) Established industrial research and development organizations
 - iii) Autonomous bodies and public undertakings
 - iv) Universities/Colleges

1) School of Basic Sciences:

Organic Synthesis, Supramolecular Chemistry, Coordination Chemistry, Organometallics, Theoretical Chemistry, Biophysical Chemistry, Nan materials, Soft Condense Matter Physics, Optics and Photonics, Spectroscopy, Magnetism, Ferroelectrics, Queuing Theory, Stochastic Modeling, Computational Mathematics, Complex Dynamics, Variational inequalities and Operational Techniques.

2) School of Earth, Ocean & Climate Sciences:

Hydro -geochemistry, Water – Rock interaction, Geochemistry of soil & sediments.

3) School of Electrical Sciences (Electrical Engineering, Electronics & Communication Engineering, Computer Science Engineering, Instrumentation Engineering):

Antenna Design, Smart Antenna Techniques For MIMO Systems, Radio Frequency Identification System Design And Application, Non-Destructive Testing Methods, Digital Signal Processing, Sensor Network, Intelligent Instrumentation, Opto-Electronics Device, Optical Communication, Optical Sensor, Communication And Wireless Communication System, Semiconductor Material & Device , Characterization, Wide Bandgap Semiconductor Devices, MMICS, Decoupling Control, Robust Control, Periodic Feedback Control, Power Quality, Custom Power Devices, Renewable Energy Sources And Application Of Soft Computing Techniques To Power Systems , Intelligent Protection To Transmission Systems Including Facts, Microgrids, Microgrids With Distributed Generation And Dynamic Security Assessment In Large Power Network.

4) School of Humanities, Social Sciences and Management:

Economics – Environmental Economics, Natural Resources Economics, Macroeconomics, Development Economics & Rural Development.

English – Indian Writing in English, Post Colonial Literature, Travel Writing, Business Communication, American Literature, Canadian Literature, ELT, Cross Cultural Communication, Autobiography.

Psychology - Consumer Behavior, Cyber Psychology, Clinical Psychology, Cognitive Psychology, Cognitive Neuroscience, Psycholinguistics, Psychology of Personality, Marketing.

5) School of Infrastructure (Civil Engineering):

Aerobic and anaerobic granulation for low and high strength wastewater, Greenhouse gases and global warming, Earthquake Engineering, Concrete Technology, Geotechnical Risk and Reliability, Soil-Structure Interaction, Ground Improvement, Experimental Geotechnics, Biological Water and Wastewater treatment, Adsorptive and Biological removal of metallic, Organic, Inorganic compounds from Industrial Wastewater, Traffic Flow Modelling, Local scour around hydraulic structures, Submerged wall jets, Flow through emergent vegetation.

6) School of Mechanical Sciences (Mechanical Engineering, Metallurgical & Materials Engineering):

Computational Fluid Dynamics, Heat Transfer, Composite Materials, Sandwich Structures, Fracture Mechanics, Composite Materials, Smart Composite Structures, Fracture Mechanics, Delamination studies in Composites, Solid Mechanics, Supply Chain Management, Quality Control, Logistics, Industrial Noise Control.

Eligibility

Programme	Eligibility Criteria
PhD (Engineering)	60% marks or 6.75 CGPA in M. Tech/M.E with consistently good academic record OR B.Tech/B.E with 70% or 7.5 CGPA with valid GATE Score (very good) and consistently good academic record in the relevant field.
PhD (Science)	1st class in M.Sc. / M. Tech with consistently good academic record (equivalent CGPA) and valid GATE/NET CSIR/UGC score in the relevant field.
PhD (HSS)	55% marks or equivalent CGPA in Master degree with UGC/NET score OR M. Phil degree in the relevant field.

How to Apply:

Duly completed application form (downloadable from <http://www.iitbbs.ac.in/phd.php>), should be sent to **Assistant Registrar (F&A), IIT Bhubaneswar, Samantapuri, Bhubaneswar, Odisha – 751013** along with a **Demand Draft of Rs. 500/- for General/OBC, Rs. 250 for SC/ST drawn in favour of "IIT Bhubaneswar" on any nationalized bank payable at Bhubaneswar latest by 20th October, 2011 by post or in person.** Please superscribe 'Application for Admission to Ph.D. programme in the School of _____' on the top of the envelope. Application form may also be obtained from the Academic Section, IIT Bhubaneswar against a demand draft on every working day. **Women candidates are exempted from the payment of application fees.** Candidates applying for more than one School should submit a separate application for each School.

The Institute reserves the right to call a limited number of candidates for written test or/ and interview.

****Incomplete applications /without relevant supporting documents/ without prescribed Demand Draft / applications not on prescribed form will be out rightly rejected and no correspondence in this regard shall be entertained. Institute will not be responsible for any postal delay.***