PhD Admission 2017

Information Brochure

Academic Session 2017-2018

For Admission to the

PhD programme; July 2017

Indian Institute of Engineering Science and Technology, Shibpur
(Formerly Bengal Engineering and Science University, Shibpur)
www.iiests.ac.in

IMPORTANT: **The dates are tentative. Please refer to our website for any changes/announcements**

IMPORTANT DATES		**2017**
1.	On-line application starts from	**11 May : Thursday**
2.	Last date of submission of on-line application	**25 May: Thursday**
3.	Publication of the list of eligible candidates for Test	**1 June : Thursday**
4.	Date of Entrance Test : 11 AM to 12:30 PM)	**9 June : Friday** **12:00 – 1:30 Hrs**
5.	Publication of the result of the test	**16 June : Friday**
6.	Date(s) for the Interview	**21 to 23 June : Wed --Friday**
7.	Date of admission/enrollment	**26 – 30 June: Mon-Thursday**
8.	Date of publication of the list for admission to fill-in from the waiting list & date of admission	**4 July : Tuesday** **6 July : Thursday**
9.	Date of joining/commencement of the PhD prgramme	**17 July : Monday**

THE INSTITUTE

In recognition to the brilliant contribution of the **Bengal Engineering and Science University, Shibpur** towards advancing quality education and research in India during the last 158 years, this premiere institute has been transformed to **Indian Institute of Engineering Science and Technology, Shibpur (IIEST, Shibpur),** an *Institute of National Importance* by the NITSER Act of the Parliament in 2014.

Established with a mission to provide the best platform for multidisciplinary research with integrated application of engineering, scientific, and mathematical principles, IIEST, Shibpur is the **first** of its kind in India.

Old Building of
Bengal Engineering College (1920)

Bengal Engineering and Science University, Shibpur started its glorious journey in 1856 as **Calcutta Civil Engineering College**. Developed as the premiere engineering collegein pre-independence India, it has been renamed as **Bengal Engineering College, Shibpur** in 1920. The College has received the status of Deemed University in 1993 and subsequently transformed to **Bengal Engineering and Science University, Shibpur** in 2004. The then Hon'ble President Dr. A.P.J. Abdul Kalam formally inaugurated this university in 2005.

Main Academic Building

Science and Technology Building

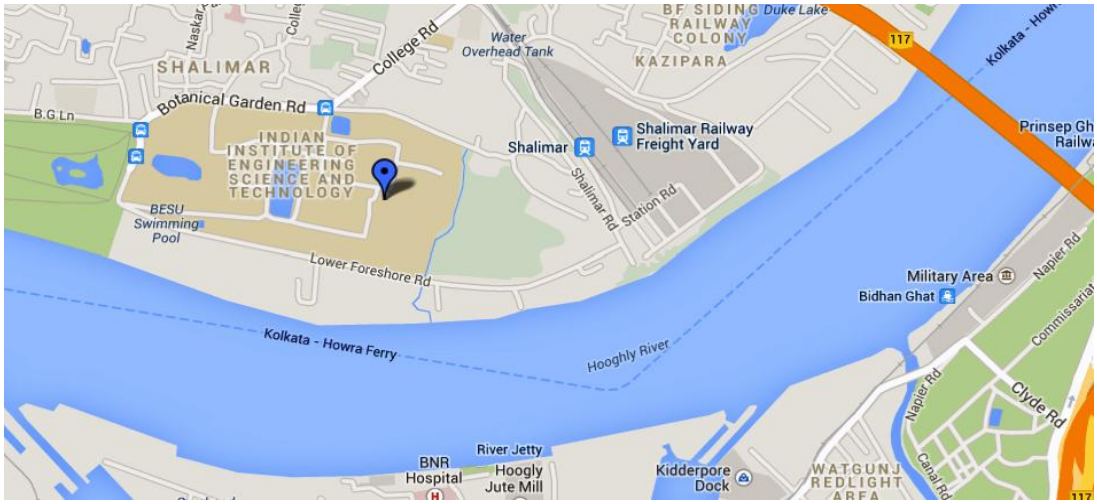
IIEST, Shibpur represents a new class of institutes dedicated towards offering post-graduate programs and advanced research, as recommended by the AnandaKrishnan Committee. It has the distinction of becoming the first IIEST in the country with promulgation of amendment to the NITSER Act 2014, assented by the Hon'ble President of India from March 4, 2014.

VISION

The **Vision** of IIEST, Shibpur is to becomeone of the best Institutes in the world in providing the state-of-the art multi-disciplinary research ambience that will usher innovative world-class technologies developed towards realizing the goal of Developed India.

IIEST, Shibpur functions as an institute of higher learning and advanced research. Prime activities include creation and dissemination of knowledge; producing engineers, scientists and entrepreneurs of highest quality equipped with latest technologies and developing innovation technology solutions for the cause of the society. These are being achieved by the team of brilliant faculty members and research scholars working in advanced laboratories and academic ambience.

CAMPUS



The Institute has a beautiful green campus covering an area of about 121 hectares situated on the northern bank of the river Hooghly, next to the **Botanical Garden** and opposite to the **Kolkata Port**. The campus has a number of academic and administrative buildings, library, accommodations for staffs and students, guest house, auditorium, swimming pool, students' amenities, banks, school, hospitals and general services.

INSTITUTE BUILDINGS

The **main academic complex** is a four storied building covering about 22000 m²area that accommodates most of the engineering departments, department of Human Resources Management, Office of the Dean and Office of Examinations.

The newly constructed eight-storied **Science and Technology** building with 14400 m²area accommodates some of the existing engineering departments, science and management departments, and various centres and schools. Office of the Vice-Chancellor, Offices of the Deans, Registrar, and other financial and administrative offices are also located in this building. Annexes to this building are now being constructed to accommodate future departments, schools, centres and offices.

The old **Workshop** complex where the Bengal Engineering College was originally started in this campus is now a heritage building. Part of the workshop is housed in the adjoining building. The workshop complex is quite large, encompassing an area of about 8500 m².

The institute is expanding; new buildings are being constructed and some of the old buildings are being converted to accommodate various services as well as specialized schools for research and development activities.

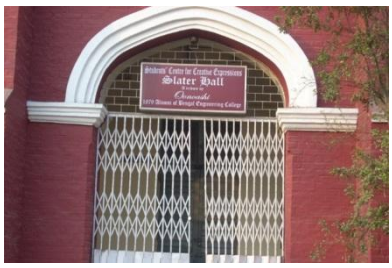
ACCOMMODATION

The Institute, with a student population of more than 3200, has 15 hostels including two girls' hostels for UG students and one girls' hostel for PG and Research Scholars. However, residential accommodation of all the UG and PG students in the campus hostels is not guaranteed.

The Institute also provides accommodations to a number of faculty members and staffs within the campus.

AMENITIES

Besides Institute building, students' hostels, staff quarters and various student and staff activity centres, the campus has the following amenities:



Centre for Creative Expressions

(a) Students Centre for Creative Expressions at Slater hall
(b) R. N. Banerjee Students' Recreation Centre
(c) Institute Hall – A Multipurpose Auditorium
(d) A Well-equipped Gymnasium
(e) Two well-maintained sports stadium: Oval and Lords
(f) A Modern Swimming Pool
(g) Students activity centre to accommodate different students societies like photography, drama, music, creative model making etc.
(h) A Students' Innovation Centre
(i) Vivekananda Youth Club for Students
(j) Institute guest house.
(k) A hospital with outdoor and indoor treatment facilities under supervision of medical officers.
(l) A student canteen and a staff canteen.
(m) Three banks with ATM facilities.
(n) Shanti-Neer: A Meditation Centre
(o) B. E. College Model School

Gymnasium

NetajiBhavan

HEALTH SERVICE

The Institute has a hospital to cater to the needs of the campus inmates with medical officers and other supporting staff. It provides 24 hours ambulance

service.Besides, the hospital has an ID Ward to effectively isolate students suffering from infectious diseases such as chicken pox, mumps, measles etc. Outdoor treatment is available in two shifts: morning and afternoon except Sundays and holidays. Serious cases are generally transferred either to any city hospital or to the students' health home, Kolkata. This Institution has the membership of the Students' Health Home.

Campus Services

The Institute is provided with uninterrupted power supply from the Calcutta Electric Supply Corporation. Water supply is provided by the Howrah Municipal Corporation. In addition, the Institute has its own captive generation plant and also water supply sources. There are three agencies which look after the maintenance of various services in the campus: the Public Works Department (Maintenance) for maintenance of all buildings and roads, the Public Works Department (Electrical) to look after the maintenance of electrical services and a Public Health Engineering Department for maintenance of water supply and sewage disposal.

Central Facilities

In addition to the academic and supporting departments, there are Central Facilities as follows.

Computer Centre

All the departments, schools and centres of the Institute have computing facilities of their own. In addition, there is a Central Computer Centre which provides computing facilities for UG/PG labs and research works.This Computer Centre along with all departments, schools, centres offices and hostels are connected toa campus wide network with fibre optic backbone and the whole campus is secured Wi-Fi enabled.

Library

The Institute has a moderate library covering 3000 m2 area and is open from 8.00 A.M. to 8.00 P.M. (Mondays to Fridays) and 9.00 A.M. to 1.00 P.M. (Saturdays and Sundays).

The library has the library management software, LIBSYS-4 and provides online search facilities (OPAC) of its database from any computer connected to the Internet through WebOPAC and also from the computers in the library dedicated for the users. Currently the library has more than 1.4 lakhtext and reference books, and 40,000 bound volumes of journals. It also has a huge collection of documents including such as patents, standards, technical reports and pamphlets. The library boasts of having a good collection of old and rare books and journals of the nineteenth

century. The library is a member of Indian National Digital Library in Engineering Science and Technology (INDEST) and UGC-INFONET Digital Library Consortium of Information and Library Network (INFLIBNET) Centre and provides online access to full text of journals including American Society of Civil Engineers (ASCE), American Society of Mechanical Engineers (ASME), Economic and Political Weekly, IEEE/IIEE Electronic Library (IEL Online), ISID, JCCC@INFLIBNET, JSTOR, Science Direct, Springer Link and many others. Currently the library is under the process of renovation and modernization with the objective of providing 24-hrs online access to more eBooks, eJournals, learning resources and video lectures.

PRESS

The Institute has a modest printing press with necessary staff and machines. The press is utilised to print Institute news bulletins, seminars proceedings and other miscellaneous materials.

WORKSHOP

The Workshop Complex has nine engineering shops to offer trainings in different basic shop practices including Carpentry Shop, Smithy Shop, Welding and Painting Shop, Fitting Shop, Machine Shop, Foundry and Pattern Shop, Boiler Shop, Electric Shop, Automobile Shop and Project Model Shop.

STUDENTS' AFFAIRS

Headed by a Dean of Students' Affair, the students of this Institute are encouraged to participate in sports and games as well as various cultural activities likemusic, photography, dramatics, paintings, model making, creative writing and debating etc. in the Students' Centre for creative expressions. The Institute has the unique model of students' representative body called the **Students' Senate**.

HUMAN RESOURCE MANAGEMENT

Department of Human Resource Management is responsible for facilitating job placements as well as practical training for the engineering students of this Institute. The department assists the students in arranging training in industrial establishments during summer vacation for the pre-final year students and also coordinates Post Graduate Practical Training for fresh graduates in collaboration with Board of Practical Training, Eastern Region, Govt. of India.

ACADEMIC PROGRAMS

The Institute offers the following postgraduate programs.

FIVE-YEAR INTEGRATED DUAL DEGREE PROGRAM**

The Institute offers **5-year full time dual degree** courses leading to **integrated B. Tech and M. Tech degrees** in the following nine disciplines.

(a) Aerospace Engineering
(b) Civil Engineering
(c) Computer Science and Technology
(d) Electrical Engineering
(e) Electronics and Telecommunication Engineering
(f) Information Technology
(g) Mechanical Engineering
(h) Metallurgy and Materials Engineering
(i) Mining Engineering

These dual degree courses extend over 10-semesters. After successful completion of the course a student receives both a B. Tech and a M. Tech degree.

** From 2017-18 academic year the admission would be primarily on the 4 year B. Tech course with a provision to opt for dual degree at the end of 3rd year.

FIVE-YEAR B. ARCH PROGRAM

The Institute also offers regular full-time 5-year undergraduate program in Architecture. After successful completion of the program a student earns a B.Arch degree as per the norms of the Council of Architecture (COA), India.

The admission to the integrated B. Tech – M. Tech (or the 4 year course as the case may be) as well as the B. Arch programme is done through JEE main examination conducted by CSAB.

TWO-YEAR FULL-TIME M. TECH PROGRAMME

All the Engineering Departments including Architecture as well as many specialised schools and centres offer 2-year full time PG programme leading to M. Tech and MURP (for Architecture) degrees. Full details are available in the PG brochure for M. Tech courses. The admission is done through CCMT or the Centralised Counselling System for the NITs and CFTIs with GATE as mandatory requirement.

TWO-YEAR FULL TIME M. SC. PROGRAMME

These programmes are offered by the departments under the Faculty of Basic and Applied Sciences namely; Physics, Chemistry, Mathematics, Earth Sciences and the School of Community Science and Technology (SOCSAT). Fifty percent of the

available seats to the MSc programmes are admitted through CCMN; the centralised counselling procedure for NITs and CFTIs with JAM as the mandatory requirement. The rest fifty percent are admitted through our own test and interview process without JAM as mandatory requirement.

PH.D PROGRAMMES

All the academic units (Departments/Schools and Centres) offer PhD programme and the admission is made through a common admission test followed by technical interview at the concerned units. For details see the admission announcement.

Date of Commencement of Academic Session:Monday the 17th July 2017

The broad areas of the research offered by different units are included (but not limited to) in the following table. The aspirants selected for interview may specify the broad areas for the specific technical discussion and selection of the supervisor.

Department / School / Centre	Sl. No.	Broad Area
Aerospace engineering and applied mechanics	1	Fibre-reinforced composite. FEM
	2	Mechatronics, Robotics, Automation CAD/CAM, Fluid Power, System and Control
	3	Turbulence, Fluid mechanics, Aerodynamics
	4	Material Design/ Biomechanics
	5	Earthquake Engg & Structural/Soil Dynamics
	6	Earthquake Engg & Structural Dynamics
	7	Fluid Mechanics, Hydraulic Structures
	8	Plasticity, Fatigue, Fracture
	9	Microfluidics, CFD, Themo-Fluid Engg
	10	CFD, Fluid Mechanics, Heat Transfer
Architecture, Town and Regional Planning	1	Urban & Regional Planning
	2	Remote Sensing &GIS
	3	Housing
	4	Environmental Planning
	5	Architecture
	6	Architectural / urban heritage conservation
	7	Cultural heritage disaster risk mitigation and management
	8	Urban disaster risk mitigation and management

	9	Vulnerability studies with respect to built environment
	10	Architectural history and theory
	11	Urban studies
	12	Sustainable Planning
	13	Mathematical Models in Planning
	14	Transportation Planning
	15	Planning in Ecologically Fragile Areas
	16	Disaster resistant architecture
	17	Rural Planning
	18	Landscape Urbanism
	19	Environmental Planning and Conservation
	20	Environmental urbanism
	21	Thermal Performance and Energy Efficiency of Vernacular Architecture
Centre for Healthcare Science and Technology	1	Early cancer diagnosis, Stem cell and Regenerative medicine
	2	Biomaterial, 3D printing, Tissue Engineering, Nanotechnology
	3	Neurodegenerative disease, cancer therapy, medicinal chemistry
	4	Safety Engineering
Chemistry	1	Synthesis of thin film semiconductors and their applications
	2	Theoretical Chemistry (Electronic Structure Theory and Chemical Dynamics in condensed phases)
	3	Synthetic organic and organometallic chemistry
	4	Coordination and Bio-inorganic Chemistry
	5	Photoelectrochemistry
	6	Corrosion – Electrochemistry
	7	Design and Synthesis of Chemical Sensor and Chemodosimeter
	8	Synthesis of hydrogel and organogel and their applications
	9	Nano-materials/Heterogeneous catalysis
	10	Homogeneous Catalysis and Bio-inspired Coordination Chemistry
	11	Synthesis of different types of nano materials and their various applications

Civil Engineering	1	**Environmental Engineering** - Industrial Water Pollution Control - Heavy metal removal by nano-membrane - Removal of emerging contaminants - Eco-toxicity of emerging contaminants. - Advanced Materials for Water and wastewater treatment
	2	**Structural Engineering** - Earthquake Engineering - Stochastic Structural analysis - Structural Dynamics, - Wind Engineering - Composite Structure and Materials - Vibration Control - Structures under uncertainty - Structural Health Monitoring
	3	**Transportation Engineering** - Cost effective pavement materials - Pavement design modeling - Traffic Engineering - Transportation Planning
	4	**Water Resources Engineering** - Climate Change, - Urban Hydrology - Application of Remote Sensing and GIS
	5	**Geotechnical Engineering** - Reinforced Soil - Environmental Geotechnical Engineering - Soil Dynamics - Geotechnical Earthquake Engineering - Ground Improvement - Dynamic Soil Structure Interaction - Deep Foundation

Computer Science and Technology	1	Video and Audio data Analysis
	2	Crop disease Analysis
	3	Data Management in energy-starved wireless network
	4	Data and Knowledge Engineering
	5	Image Processing and analysis
	6	Natural Language Processing
	7	Intruder detection, Hardware Trojan attacks and cellular automata
	8	Computational architecture for next generation sequencing
	9	Hardware architecture for routing scheme
	10	Application of digital geometry in image processing
	11	Big data analysis and application
	12	Machine learning data mining
	13	Internet of Things based security
	14	Approximate Computing/Stochastic Computing
	15	Internet of Things for Disaster Management
	16	5G Cellular Network
	17	Pattern recognition and image processing
Earth Sciences	1	Structural Geology
	2	Geohydrology
	3	Sedimentology
Electrical Engineering	1	Applications of Magnetostriction in Energy Harvesting
	2	Operation and Control of Distribution System with Electric Vehicles
	3	Analysis of distributed energy resources and micro grid
	4	Renewable Energy integration
	5	Tuning Methods for Cascade Control
	6	Matrix Converter as Frequency Changer
	7	Control Systems
	8	Development of Nano fluids for Power and Energy Applications
	9	Development of Intelligent Controller for Robotics Applications

	10	Application of Finite Element Method to problems pertaining to Electrical Machines.
Electronics & Telecommunication Engineering	1	Hardware software co-design in signal processing
	2	Electronic properties of nano structure and influence of microwave radiation
	3	Study on EMI
	4	4G communication
	5	Biomedical Application of EM theory
	6	VLSI architecture design for DSP
	7	Nano structure semiconductor based gas sensors Devices
	8	Communication in smart grid , Dynamic spectrum access/ Harvesting
Humanities and Social Sciences	1	Environmental Economics / Environmental Studies
	2	Management and Entrepreneurship
Information Technology	1	Hardware Security
	2	Study and design of algorithms for adhoc wireless sensor network
	3	Image analysis using geometric structural characterization
	4	Memristor based Design and Synthesis
	5	3D IC Test techniques and Hardware security
	6	Brain Image Analysis
	7	Memristive modeling and Neuromorphic Computing
	8	Design of Scalable Multi and Manycore Systems
	9	MIMO and Cooperative Diversity in 5G
	10	Outage Secrecy in Relay based multihop cognitive radio networks
	11	Crowdsourcing
	12	Study and Development of a Smart System for a Water Distribution Network
	13	Study and Design of Opportunistic Network
	14	Digital Microfluidic biochip design and test
Mathematics	1	Fracture Mechanics
	2	Astrophysics and Cosmology
	3	Fuzzy Optimization

	4	Fuzzy Mathematical Systems
	5	Thermo elasticity
	6	Neural Network
	7	Mathematical Biology
	8	Mathematical Ecology
	9	Mathematical Theory of Reliability
	10	Optimization, Operational Research
	11	Theory of Relativity
	12	Mathematical Analysis
	13	Fluid Mechanics
	14	Imprecise Mathematics
	15	Nonparametric Methods
Mechanical Engineering	1	IC engines fuels and Combustion
	2	CFD and Numerical Heat transfer
	3	Tribology and Bio-tribology
	3	Manufacturing, Cutting tool development using advanced materials
	4	Energy Technology / Renewable Energy
	5	Fracture Mechanics
	6	Non-conventional machining process
	7	Engineering ceramics
Metallurgy and Materials Engineering	1	Micro-alloyed fine pearlitic steel
	2	Magneto caloric effect in nanostructured systems.
	3	Metal Matrix nanocomposite
	4	Carbide-free bainitic ultrahigh strength steel
	5	Rheo Casting
	6	Al-Li Alloy
	7	Wear and Friction of Steels
	8	Metal Matrix nanocomposite
	9	Diffusion Bonding
Mining Engineering	1	Biomining-
	2	Coal Washing
	3	Engineering of overburden dumps
	4	Environmental Management/ Environmental Impact Assessment/ Mine Closure/

		Environmental Pollution Control
	5	Geomechanics
	6	Geomechanics of carbon sequestration in saline aquifer
	7	GIS and Remote Sensing pplication
	8	Mine Ergonomics
	9	Mineral Beneficiation
	10	Quality Assuirance of Mined Coal
	11	Safety Analytics
	12	Stochastic Optimization of Mining Complexes and Mineral Value Chains
	13	Surface Mining
M. N. Dastur School of Materials Science and Engineering (MNDSMSE)	1	Computational Materials Design/ Nanomaterials and nanophase ceramics (bulk and coating) in biomedical application
	2	Polymer processing, Natural fiber based bio-composites, Polymeric Biomaterials
	3	Electro Chemistry, energy storage material, shape memory alloy
	4	Carbon based nano structure for super capacitor and water purification technology
Physics	1	Nanomaterials , Composites and Hybrids for Green energy generation
	2	Studies on compact stars
	3	Optical properties of Rare earth doped glasses and Rare earth Nano-materials
	4	Nuclear Physics applications to stellar evolution
	5	Theoretical Atomic Physics
	6	Nanomaterials, device Physics, & Instrument development
	7	Experimental Nuclear structure study in Sd-Pf region
Purabi Das School of Information Technology	1	Decision Making in Big Data Environment using Computational Intelligence
School of Community Science and Technology	1	Food Product Development
School of Management Sciences	1	Management Information System / Human Resource Management

School of Mechatronics and Robotics	1	Assistive devices for Physically Challenged People, Mechatronics / Robotics/ Orthotic and Prosthetic Devices, Innovative Product Development for Bio-medical Engineering, Bio-signals, Bio-mechatronics, Bio-robotics
School of VLSI Technology	1	DSP Architecture Design and Development
	2	Hardware system for Image and Video Watermarking.
	3	Cyber physical Systems Design Methodology and Architecture :An application to pervasive computing
	4	Approximate Computing
	5	Novel 2D Material and Device

ACCOMMODATION FACILITIES

Each Hall or Hostel of residence manages its own mess through duly elected Mess Committee which work under the guidance of Superintendent of the Hostel as Mess President. All boarders are provided with the two principal meals from the attached messes unless specially exempted by the authority. There are three hostels exclusively for girl students.

Due to an increase of the number of students in recent years the Hostel accommodation is not guaranteed. Students from places from where commuting to this Institute on daily basis is not possible are given preference for hostel accommodation. Some private mess have come up around the campus. For hostel related queries and accommodation contact Dean (Student Affairs).

DELAY IN JOINING THE INSTITUTE

Any student who is unable to join the Institute on the opening day must send in an application for leave, countersigned by his guardian clearly stating the reason of absence. In case of illness, a medical certificate must be attached. If the student fails to submit his leave application he will be liable to a fine of Rs. 500/-. No student will be allowed to join the Institute after the expiry of one month from the opening of the session, unless specially permitted by the Dean.

REMOVAL FROM THE INSTITUTE ROLLS

If a student's record of progress in studies is found to be unsatisfactory within six months of his/her admission, he/she may not be permitted to continue. Likewise, lack of progress in a subsequent year will, in extreme cases, entail relegation or removal from the Institute rolls. Students considered to be unsuitable owing to ill-health, bad attendance, or other reasons of indiscipline are also liable to be removed from the Institution.

STUDENTS' ATTENDANCE

A candidate having a record of attending classes less than 75% in each of the theoretical and seasonal subjects offered in a semester shall not be allowed to sit for the relevant semester examination. Such a candidate may be allowed to seek readmission to the odd-semester of the corresponding part during the next academic session, subject to the conditions laid down in relevant regulations.

COMPLIANCE TO INSTITUTE RULES

All students are bound by the Institute Rules and must obey such orders as may be issued from time to time by the appropriate authority. Serious breach of Institute Rules may entail removal from the Institute. Following rules should be rigidly followed:

1) All new students who have been allotted hostel accommodation, on their first arrival at the Institute should report themselves to the corresponding Hostel Superintendent.
2) A Superintendent may not enter a student's name in the roll of the hostel or assign him a seat, until he/she produces the Cashier's Receipt for the first instalment of fees.
3) Every student, on first joining the Institute, must provide himself with bedding and mosquito net. Except with special permission from the Dean (Student Affairs), no furniture should be brought into the Institution.
4) Students are not allowed to stay outside their hostels beyond 10 p.m. without prior permission from their respective Superintendents.
5) Disorderly or indecent conduct in the campus will lead to disciplinary action.
6) Students are liable to have their names entered in the Conduct Register maintained by the office of the Dean (Student Affairs) for offenses indicated below:
    - Disobedience to orders
    - Absence without leave and
    - Insubordination or disrespect to the members of the University Staff.
7) Students may be expelled for habitual or gross misconduct or for continued absence or neglect of work, or for frequent entry of their names in the Conduct Register.
8) Students leaving their rooms must see that those are properly locked.
9) Smoking anywhere within the campus is strictly prohibited.
10) The inmates of a room are collectively held responsible for the care of all fittings and furniture in and near their rooms. Any damage other than that due to normal wear and tear will be chargeable to the inmate or inmates responsible for the damage.
11) The Institute swimming pool, beyond scheduled hours, and all ponds and lakes are strictly out-of- bounds for students.

12) The Oval Ground is out-of-bounds after dusk.
13) Students found involved in the act of ragging will be punished as per rules.
14) No students should use slippers or slippers during class hours.
15) Use of microphones, external lighting, VCR and Cable TVs in hostels are strictly prohibited without the permission of the appropriate authority.
16) Students are advised to always carry Identity cards.
17) Swimming and bathing are prohibited in: (i) River Hooghly, (ii) Ponds and lakes inside the campus.
18) The main gate will be closed at 10 p.m. However, in case of urgent work students must get prior permission from the Hostel Superintendent to go outside the Campus after 10 p.m.
19) Hostel gates will be closed at 10.30 p.m.
20) If any student is found violating the rules and regulations, strict disciplinary action, to the extent of expulsion from the Institute, may be taken.
21) No bike/scooter will be allowed to remain in the Hostel.

Campus of IIEST, Shibpur is **RAGGING FREE** zone. At the time of admission, each student will be required to furnish an undertaking in a prescribed format that the student will not indulge in any form of ragging. The Institute may take appropriate action including expulsion from the Institute, against the erring students.

Medical Arrangement

The campus inmates are under the general medical supervision of two Resident Medical Officers. There is a dispensary and a hospital within the campus, where minor cases of illness can be treated. Serious cases are referred to Government Hospitals. Besides, the Institute has universal membership of the **Students Health Home**, Kolkata. The students will get the benefit of joint medical insurance policies paying a nominal annual premium.

Games and Sports

All students are encouraged to join games or participate in some form of physical training. Every student must possess a pair of black shorts and a pair of white tennis shoes. All students must join the athletics Club and at least one of the societies in the Students' Activity Centre.

National Cadet Corps (NCC) /Physical Training (PT)/National Service Scheme (NSS)

The University provides NCC/PT/NSS as compulsory additional elective subject under extracurricular activity for all the first year students of the UG/DD course. All students must be enrolled in NCC/PT/NSS course. They will have to undergo physical training once in a week by specially trained Physical Instructor. Attendance will be given by Physical Instructor and 75% attendance is compulsory for each student. Marks will be given by Physical Instructor in

consultation with the Dean (Student Affairs) depends upon the performance of the student and the same will be forwarded to the Controller of Examination by Dean (Student Affairs) after each semester examination.

VACATIONS AND HOLIDAYS

The Institute has only one vacation: the Summer Vacation. No student may stay at the hall or hostel of residence during the vacation without the special permission of the Dean (Student Affairs). Other than the two-month and a half month's summer vacation, students enjoy short Puja-holidays and winter recess for a week. Institute's holiday list and the academic calendar are notified in the website www.becs.ac.in.

DUES AND CHARGES

There are three different dues: **Institute Dues**, **Hostel Dues** and **Mess Dues**. Institute dues are to be paid by each student and Hostel dues and Mess dues are to be paid by those students who will be staying in halls/hostels. All these dues are to be paid in advance at the time of admission to the first semester and also at the beginning of other semesters. Caution money, however, is one-time only (during admission) and need not be paid in other semesters. Caution money will be refunded after the completion of the course. However, caution money will be forfeited if not claimed within one year after passing the course or leaving the Institution for any other reason, whichever is earlier.

INSTITUTE DUES (FOR ALL PHD STUDENTS)

Sl. No.	Item	Amount (Rs.)
1.	Enrolment Fee	3,000
2.	Examination Fee (for the coursework subjects)	1,000
3.	Registration Fee(first time)	3,000
4.	Yearly Registration Fee (for each year after registration)	6,000
5.	Extension of Registration	3,000
6.	Thesis Submission (or Resubmission) Fee	5,000
7.	Institute Caution Money (One time and refundable if there is no pending dues)	3,000

Total amount payable at the time of admission (caution money + enrolment) is Rs. 6,000/-. Other fees are to be payable as and when required.

[fees may change as per the directive of the appropriate authority from time to time]

All fees are to be deposited in the UCO Bank of India located at the ground floor of the Science and Technology building either in cash or by Demand Draft/Pay Order drawn in favour of "Registrar, IIEST, Shibpur", payable at Kolkata. A candidate should collect his/her copy of the bank receipt as well as the Institutes' copy of the receipt and shall enclose the Institutes' copy of the receipt along with his/her admission form.

HOSTEL DUES(FOR STUDENTS STAYING IN HOSTELS)

For Hostel accommodation contact Dean(student)

Sl. No.	Item	Amount per semester (Rs.)
1.	Hostel Maintenance Charge	1000
2.	Seat Rent	600
3.	Electricity and Water Charges	300
	Total amount payable at the time of admission	1900

Hostel Charges of Rs. 1900/- is to be deposited in the UBI, BESUS Branch located in the ground floor of the Heaton Hall (between Pandya Hall and Wolfendon Hall) either in Cash or by Demand Draft/Pay order drawn in favour of "Registrar, IIEST, Shibpur", payable at Kolkata. The candidate should collect his/her copy of the bank receipt as well as the Institutes' copy of the receipt and shall enclose the Institutes' copy of the receipt together with his/her application form for admission to Hostel.

MESS DUES (FOR STUDENTS STAYING IN HOSTELS)

Sl. No.	Item	Amount (Rs.)
1.	Mess Caution Money (one time and refundable)	1000
2.	Mess Dues Advance (per semester and adjustable)	1000
3.	Mess Entrance Fee (per Semester)	250
3.	Mess Charges (monthly)*	2600
	Total amount payable at the time of admission	4850

* Mess in a hall/hostel is run by the students with the supervision of the Hostel/Hall superintendent and logistic support from the mess staff. Two major meals are supplied in the mess. The exact amount of mess dues may vary from time to time.Mess charge for the full semester may be payable at the time of admission as per the policy of the mess committee.

Mess dues is to be deposited in the United Bank of India, BESUS Branch, either in Cash or by Demand Draft/Pay order drawn in favour of "Registrar, IIEST, Shibpur", payable at Kolkata.The candidate should collect his/her copy of the

bank receipt as well as the Institutes' copy of the receipt and shall enclose the Institutes' copy of the receipt together with his/her application form.

All charges may change as per orders of the Institute authority. The candidates will be notified about the changes through the website.

SCHOLARSHIPS

As per the prevailing rates of MHRD, GOI for the JRF. After two years from enrolment a scholar may be entitled for SRF as per the prevailing rules of the Institute.

MIGRATION

A candidate who is registered in Institute/University other than IIEST, Shibpur shall have to produce a migration certificate and pay the requisite Registration fee to the IIEST, Shibpur within three months from the date of admission failing which his/her admission to any course offered by IIEST, Shibpur is liable to be cancelled.

OPENING OF BANK ACCOUNT

Institute Fees may be collected through bank account (to be opened with UCO bank, BESUS)

REFUND DUE TO WITHDRAWAL OR OTHER REASONS

Once the admission is taken, the enrolment fee and other fees, except the caution money, are not refunded.