

**Information Brochure**  
**Admission to M.Sc. Program**  
**2019–2020**

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**Indian Institute of Engineering Science and Technology, Shibpur**

भारतीय अभियांत्रिकी विज्ञान एवं प्रौद्योगिकी संस्थान, शिबपुर  
ভারতীয় প্রকৌশল বিজ্ঞান এবং প্রযুক্তিবিদ্যা প্রতিষ্ঠান, শিবপুর

*Formerly Known as Bengal Engineering and Science University, Shibpur*  
Howrah 711 103, West Bengal, India

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**NIRF Ranking (Year-2019)**  
**Engineering – 19; Overall – 36**

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Website: [www.iiests.ac.in](http://www.iiests.ac.in)

April, 2019

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## 1 IMPORTANT INFORMATION

- a) Admission to the full time two-year (four semesters) M.Sc. programs of this Institute will be through Centralized Counselling for M. Sc/M. Sc (Tech) Admissions in NITs and CFTIs, 2019 (CCMN 2019) ([www.ccmn.in](http://www.ccmn.in)). For other information see Institute's website ([www.iiests.ac.in](http://www.iiests.ac.in)). The session will commence on and from 15th July, 2019 as per IEST academic calendar.
- b) Hostel accommodation is not guaranteed. A limited number of seats are available which will be allocated on preferential basis.
- c) Details of schedule for online registration, online choice filling, locking of choices, 1st round/ 2nd round/3rd round allotment, date(s) of reporting, date of National Spot Round, date(s) of admission etc, candidates are advised to regularly check CCMN 2019 website: [www.ccmn.in](http://www.ccmn.in)

## 2 THE INSTITUTE

Indian Institute of Engineering Science and Technology, Shibpur (IEST, Shibpur) started its journey in 1856 as the Calcutta Civil Engineering College and emerged as a premier engineering college in the pre-independence India. It was renamed the Bengal Engineering College, Shibpur in 1920. The College received the status of Deemed University in 1993 and was subsequently transformed to the Bengal Engineering and Science University, Shibpur in 2004. The institute has been upgraded to an Institute of National Importance by the NITSER Act of the Parliament in 2014 and renamed as the Indian Institute of Engineering Science and Technology, Shibpur. The Institute has fifteen departments of Engineering & Technology, Science and Humanities & Social Science disciplines. In addition to this, it has five research Schools and two research Centres dedicated for imparting education and conducting research in interdisciplinary areas. One of the remarkable strengths of the Institute is the pool of excellent faculty members. State-of-the-art research facilities and other academic resources are helpful to undertake fruitful and relevant research at the Institute. The century-old legacy of the Institute has produced illustrious alumni who made remarkable contributions in different fields across the globe. The current NIRF ranking (Engineering) of the Institute is 19 (year 2019); overall ranking 36.

### **3 VISION-MISSION STATEMENTS**

#### **Vision**

The Vision of IEST, Shibpur is to become one 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, and thereby establish a unique identity for the institute amongst national and international academic and research organizations through knowledge creation, acquisition and dissemination for the benefit of society and humanity.

#### **Mission**

The Mission of the Institute are as below:

- To generate high quality human and knowledge resources in our core areas of competence and emerging areas to make valuable contribution in technology for social and economic development of the nation.
- To make focused efforts towards identification, monitoring and control of objective attributes of quality for continuous enhancement of academic processes, infrastructure and ambience.
- To efficaciously enhance and expand, even beyond national boundaries, its contribution to the betterment of technical education and offer international programmes of teaching, consultancy and research.

### **4 FOUR-SEMESTER M.Sc. PROGRAM**

The Institute is offering 4-semester postgraduate courses leading to Master of Science (M.Sc.) degree. These programs are offered by the departments viz; Chemistry, Earth Sciences, Mathematics, Physics and the School of Community Science and Technology (SOCSAT). At present the total intake of each department is 36. Science department consists of very strong group of Faculty Members who are actively engaged in teaching and advanced research. The Science departments also have strong Ph.D. program. Several of the M.Sc. pass out students opt to join Ph.D. program of this Institute. After completion of M.Sc. course many students are also absorbed as Ph. D. students in various reputed institutes like, IISc, Bangalore; IITs; IACS, Kolkata; NITs etc. Few students also opt for Ph. D. program in foreign universities.

## 5 ADMISSION

All seats of two-year (four semesters) M.Sc. programs of this Institute will be done through Centralized Counselling for M. Sc/M. Sc (Tech) Admissions in NITs and CFTIs, 2019 (CCMN 2019). Candidates seeking admission to M.Sc. programs are advised to register at CCMN 2019 website: [www.ccmn.in](http://www.ccmn.in) and follow the counselling processes carefully. For other information see Institute's website ([www.iiests.ac.in](http://www.iiests.ac.in)).

### Seat Matrix and eligibility:

Program Name	Eligible Degree with subject	Eligible JAM Paper	Number of Seats										
			OC	EWS	OBC	SC	ST	OC-PWD	EWS-PWD	OBC-PWD	SC-PWD	ST-PWD	Total
M. Sc. in Chemistry	B.Sc. degree (3 yrs /6 semesters) with Chemistry as Honours/ Major subject and Physics and Mathematics as subsidiary subjects of 2 yrs/ 4 semesters duration	CY	14	3	10	6	2	0	1	0	0	0	36
M. Sc. in Applied Geology	B.Sc. degree (3 yrs /6 semesters) with Geology (Honours / Major) / Applied Geology (Honours / Major) subject	GG	14	4	9	5	2	1	0	0	0	1	36
M. Sc. in Applied Mathematics	B.Sc./ B.S. degree (3 yrs /6 semesters) with Mathematics as Honours/Major subject.	MA	14	3	9	5	3	1	0	1	0	0	36
M. Sc. in Physics	B.Sc. degree (3 yrs /6 semesters) with Physics as Honours/Major subject and Mathematics as one of the subsidiary subject of 2 yrs/ 4 semesters duration	PH	13	4	10	5	2	1	0	0	1	0	36
M. Sc. in Food Processing and Nutrition Science	B.Sc. degree (3 yrs /6 semesters) in Biological Science as Honours/ Major subject and Chemistry as one of the subsidiary subjects or B.Sc. degree (3 yrs /6 semesters) with Chemistry as Honours/ Major subject	CY / BL	14	3	9	5	3	1	0	1	0	0	36

### Minimum eligibility:

A minimum of 60% marks (CGPA=6.5 on a 10 point scale) for OC/EWS/OBC (NCL) category candidates and 55% marks (CGPA=6.0 on a 10 point scale) for SC/ST and PwD category candidates in the Honours/Major subject mentioned in the table.

### Notes:

- All candidates who are eligible for admission but whose results are yet to be declared, will be allowed provisional admission, if selected, on production of Course Completion Certificate from appropriate authorities. They will be required to submit their results of the qualifying degree examinations by 30.09.2019 failing which their

admission may be treated as canceled.

- Candidates who fail to report at the scheduled time, date and venue of the Reporting Centre will not be eligible for admission. Request for change of time and date etc. will not be entertained. Certificate for EWS/OBC(NCL)/SC/ST/PwD will be as per Govt. of India Rules.
- On receiving the offer for admission, if a candidate fails to take admission in the respective course on scheduled date and time, the offer for admission to M.Sc. course made to him/her will stand cancelled.
- The admission of students migrating from other Universities is provisional and subject to approval of the Universities, from which they come.
- The session will commence on and from 15th July, 2019. The students admitted must report to the respective Head of the Department along with the Provisional Admission Certificate issued by the Dean (Academic). Regarding class routine the candidates should contact concerned Head of the Department/School.

## Discipline

Students are expected to observe norms of good behavior, rules and regulations prescribed and orders issued by the Institute authorities from time to time.

## Fees and other details for the M.Sc. courses

Details of the fee structure are shown in the following Table.

<b>Sl. No.</b>	<b>Item</b>	<b>Amount per semester (Rs.)**</b>
1.	Admission Fee	500
2.	Students Activity Fee	500
3.	Infrastructure maintenance fee	2,500
4.	Examination Fee	1,000
5.	Tuition Fee (Fully waived for SC/ST/PwD students)	15,000
6.	Institute Caution Money (One time and refundable)	3,000

\*\* All Fees are under revision subject to the approval of the Board of Governors (BoG).

**Total amount payable at the time of admission: (i) Rs. 22,500/- for OC/EWS/OBC students and (ii) Rs. 7,500/- for SC/ST/PwD students.\*\***

All fees are to be deposited in the UCO Bank, BESU branch, Howrah 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, IEST, 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.

### **Reservation for SC/ST/PwD/OBC(NCL)/EWS/OC Categories**

Reservations for the students of SC/ST/PwD/OBC(NCL)/EWS/OC categories will be as per the Central Government rules.

### **Delay in joining the Institute**

Any student who is unable to join the Institute on the opening day must send 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 this 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 (Academic).

### **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 laboratory 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:

- All new students who have been allotted hostel accommodation, on their first arrival

at the Institute should report themselves to the corresponding Hostel Warden.

- Hostel Warden may not enter a student's name in the roll of the hostel or assign him/her a seat, until he/she produces the Cashier's Receipt for the first installment of fees.
- Every student, on first joining the Institute, must provide himself/herself with bedding. Except with special permission from the Chief Warden, no furniture should be brought into the Institution.
- Students are not allowed to stay outside their hostels beyond 11 p.m. without prior permission from their respective Hostel Wardens.
- Disorderly or indecent conduct in the campus will lead to disciplinary action.
- Students are liable to have their names entered in the Conduct Register maintained by the office of the Chief Warden for offences indicated below:
  - a) Disobedience to orders
  - b) Absence without leave
  - c) Insubordination or disrespect to the members of the Institute Staff.
  - d) 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.
  - e) Students leaving their rooms must see that those are properly locked.
  - f) Smoking anywhere within the campus is strictly prohibited.
  - g) 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.
  - h) The Institute swimming pool, beyond scheduled hours, and all ponds and lakes are strictly out-of-bounds for students.
  - i) The Oval Ground is out-of-bounds after dusk.
  - j) Students found involved in the act of ragging will be strictly punished as per rules.
  - k) No students should use slippers during class hours.
  - l) Use of microphones, external lighting, VCR and Cable TVs in hostel-rooms are strictly prohibited without the permission of the appropriate authority.
  - m) Students are advised to always carry Identity cards.
  - n) Swimming and bathing are prohibited in: (i) River Hooghly, (ii) Ponds and lakes inside the campus.
  - o) The main gate will be closed at 11 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.
  - p) If any student is found violating the rules and regulations, strict disciplinary action, to the extent of expulsion from the Institute, may be taken.
  - q) No bike/scooter will be allowed to remain in the Hostel.



Campus of IEST, Shibpur is RAGGING FREE zone. At the time of admission, each student will be required to furnish an undertaking in non-judicial stamp paper of Rs. 10/- and signed by a notary in a prescribed format (text will be made available in the website) 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.

## 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 Chief Warden. Other than the two-month 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.iests.ac.in](http://www.iests.ac.in).

## 6 CAMPUS

The Institute has a beautiful green campus covering an area of about 49 hectares situated on the northern bank of the river Hooghly, next to the Indian 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.



A portion of The Institute Campus

### Institute: Academic Area

The main academic complex is a four-storied-building-covering-about-22000 sq.

meter area that accommodates most of the engineering departments, department of Human Resources Management, Office of the Dean and Office of the Controller of Examinations.

The newly constructed eight-storied Science and Technology building accommodates some of the existing engineering departments, science and management departments, and various centers and schools. Offices of the Director, Deans, Registrar, and other financial and administrative offices are also located in this building.

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 sq. meter.



Main Academic Building

## Accommodation

The Institute, with a student population of more than 3700, 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 male students is not guaranteed due to shortage of hostels. The Institute also provides accommodations to a number of faculty members and staff within the campus.

## Students' welfare

Office of the Dean of Students Welfare will facilitate the M.Sc. students to use different facilities available at the campus. The M.Sc. students of this Institute are encouraged to participate in sports and games, various cultural activities like music, photography, dramatics, paintings, model making, creative writing, debating, as well as to explore innovation and incubation of business plans, etc.

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

- Centre for Creative Expressions with different hobby clubs
- R. N. Banerjee Student Recreation Centre
- Institute Hall: A Multipurpose Auditorium
- Gymnasium
- Oval and Lords - Two sports grounds
- Swimming Pool
- Alpona Banerjee Memorial Centre for Innovation
- Basketball court
- Vivekananda Youth Circle
- Institute Guest House.
- Hospital with outdoor and indoor facilities.
- Student canteens /cafeteria
- Three banks with ATM facilities
- Shanti-Neer: A Meditation Centre
- Tagore Green Business Incubation Centre

### 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 24hours ambulance service. Besides, the hospital has an ID Ward to effectively isolate research scholar suffering from infectious diseases. Serious cases are generally transferred to any city hospital.



Oval Ground



Gymnasium



Swimming Pool



Hospital Building



Students' Amenities Centre



Meditation Centre

## **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.

## **7 CENTRAL FACILITIES**

In addition to the academic Departments, Schools and Centers, there are Central Facilities are 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, centers offices and hostels are connected to a campus wide net work with fibre optic back bone and the whole campus is Wi-Fi enabled.

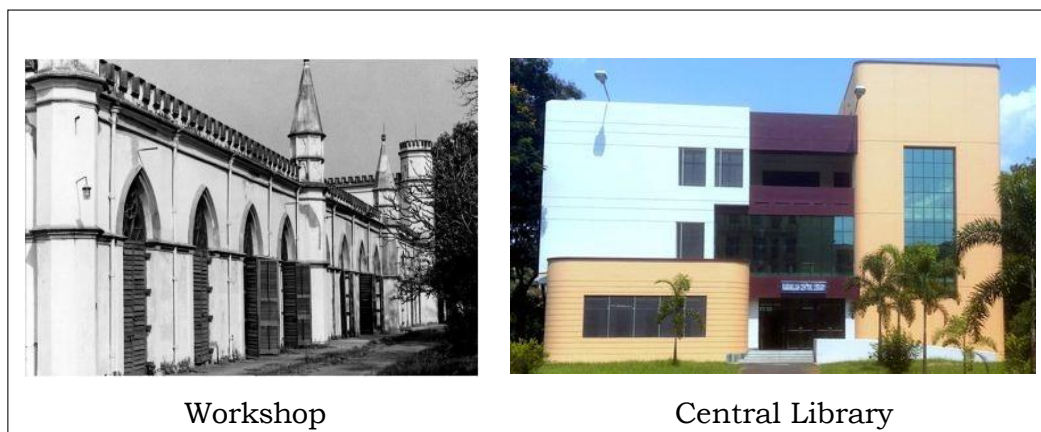
### **Library**

The Institute has a library covering 3000 sq. meters area and is open from 09:00 h to 24:00 h (Monday to Friday) and 10:00 h to 18.30 h (Saturday and Sunday). The library has a library management software, LIBSYS-4 and provides online search facilities (OPAC) of its database from any computer connected to the Internet through Web OPAC and also from the computers in the library dedicated for the users. Currently, the library has more than 1.4 lakhs text and reference books, and 40,000 bound volumes of journals. It also has a huge collection of documents including 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 the 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 (IELOnline), ISID, JCCC@INFLIBNET,

JSTOR, Science Direct, Springer Link and many others.

## Workshop

The Workshop Complex has nine engineering workshops including Carpentry, Smithy, Welding and Painting, Fitting, Machine, Foundry and Pattern, Boiler, Electric, Automobile, and Project Model to offer workshop practice.



Workshop

Central Library

## 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 and educational establishments during summer vacation and also coordinates Post Graduate Practical Training for fresh graduates.

## 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.

## 8 HOSTEL ACCOMMODATION

The Institute, with a student population of more than 3700, has 15 hostels including two girls' hostels for undergraduate students and one girls' hostel for postgraduate students and Ph.D. Scholars. However, residential accommodation of all M.Sc. students is not guaranteed due to a shortage of hostels. Hostel accommodation will be provided as per the availability of the rooms. All new M.Sc. students, who have been allotted hostel accommodation, should report themselves

to the respective Hostel Warden on their first arrival at the Institute. Hostel Warden may not enter students name in the roll of the hostel or assign him/her a seat until he/she produces the Receipt for the first installment of fees.

Hostel Dues and Mess Dues are to be paid by students residing in 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. Students withdrawing from the Institute after admission may get some refund as per the refund policy of the Institute notified in the website.

### **Hostel Dues (for students staying in hostels)**

Hostel Charges of Rs.1900/- is to be deposited in UCO Bank, BESUS Branch located in the ground floor of the Eight-Storied Building (either in Cash or by Demand Draft/Pay order drawn in favour of “Registrar,IEST,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.

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

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

### **Mess Dues (for students staying in Hostels)**

Mess dues of Rs. 25500/- is to be deposited in the State Bank of India, BESU Branch preferably through HMS (Hall Management System Portal “MESS ADVANCE / MESS ENTRANCE /MESS CAUTION /MESS ESTABLISHMENT A/C”) at the time of admission.

The candidates are requested to carry Debit Card /Credit Card or may pay using Net Banking. In extreme case payment will be accepted through Demand Draft/Pay Order in favour of above account in consultation with the admission official.

Sl No	Item	Amount per Semester (Rs.)
1	Mess Caution Money (one time and refundable)	1000
2	Mess Dues Advance (per semester and adjustable)	17500
3	Mess Entrance Fee (per year and non-refundable)	3000
4	Mess Establishment Fees (per semester and non-refundable)	4000
	<b>Total amount payable at the time of admission</b>	<b>25500</b>

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

### Opening of Bank Account

Institute fees (Tuition fees and Examination fees etc.) are collected through the individual bank account of the student (to be opened with UCO Bank, BESUS Branch). This is mandatory and to be opened within a month from the date of admission failing which the candidature of the student will be cancelled. A student is expected to keep sufficient amount in his/her account. The dues are notified from time to time and deducted automatically from the account of the students. Defaulters with pending dues are not allowed pursue further academic activities of the Institute. In future payment method may change.

### Refund of Fees

- If a student withdraws in writing his or her name from the Institute before the scheduled date for commencement of the course, Institute will refund the entire amount after deduction of Rs.1000/- as processing fee.
- If a student withdraws his or her name from the Institute after commencement of the academic session then the Institute will refund only the caution deposit. In addition students staying in hostel will get refund the mess Caution Money Deposit.
- Refund will be made available to the student immediately after withdrawal of admission in writing. Refund money will be paid to the student by Account payee cheque.

**CCMN 2019 - M. Sc. Admission Committee Coordinator (s) of IEST, Shibpur:**

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CCMN-2019 Website: [www.ccmn.in](http://www.ccmn.in)