Information Brochure Admission to B. Tech. and B. Arch. Programs Academic Session 2021-22

NIRF Ranking (Year 2021)

Engineering – 27 | Architecture – 9 | Overall – 46 | Research – 48



Indian Institute of Engineering Science and Technology, Shibpur Howrah – 711 103, West Bengal, India

(Formerly known as Bengal Engineering and Science University, Shibpur)

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1. The Institute

Indian Institute of Engineering Science and Technology, Shibpur (IIEST, Shibpur) has a more than 160 years long and rich history. It started its journey in 1856 as CALCUTTA CIVIL ENGINEERING COLLEGE and emerged as a premier engineering college in the pre-independence India. lt was renamed as BENGAL ENGINEERING COLLEGE, SHIBPUR in 1920. The College received the status of a DEEMED UNIVERSITY in 1993 and was subsequently transformed to Bengal Engineering and Science UNIVERSITY, SHIBPUR in 2004. The institute has been upgraded to an INSTITUTE OF NATIONAL IMPORTANCE by the amendment of NITSER Act of the Parliament in 2014 and renamed as INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY, SHIBPUR. The Institute has fifteen departments of Engineering, Architecture, Science, and Humanities & Social Science disciplines.



The Centenary Gate



The Main Academic Building

In addition, it has five Schools and two Centres dedicated for imparting education and conducting research in interdisciplinary fields.

Why IIEST?

Teaching

One of the remarkable strengths of the Institute is the pool of excellent faculty members. The faculties truly care for their students in clarifying their questions in the class.

• Proximity to Metro City

IIEST, Shibpur, is conveniently located and well connected to all important locations in Howrah and Kolkata, the twin cities situated on the two banks of the River Hooghly. It can be easily accessed by train from Shalimar, Howrah, Sealdah and Kolkata Railway Junctions, and is well connected with the NSC Bose International Airport, Kolkata. Of late Kolkata Metro Line 2, a rapid transit line travelling underneath the River Hooghly, has connected the twin cities.

• Research Collaboration with Neighbouring National Institutes

State-of-the-art research facilities of the Institute are helpful to undertake fruitful and relevant research. Further, the proximity to Kolkata allows IIEST to collaborate with different top-notch national level neighbouring institutes of the metro like CGCRI, IACS, ISI and also with renowned old universities like University of Calcutta and Jadavpur University.

• NIRF and QS Rankings

In recognition of its core strength in 'Teaching, Learning & Resources', contribution towards 'Research and Professional Practices', inclusive 'Outreach Activity', and 'quality of graduates and post-graduates', the National Institutional Framework (NIRF), Ministry of Higher Education, Govt. of India has awarded the Institute with an All India ranking of 27 in Engineering and 9 in Architecture with an overall ranking of 46. IIEST Shibpur has also ranked 301-350 among the top 650 Universities in Asia category by the QS Asia Ranking 2021,

• Availability of Scholarships

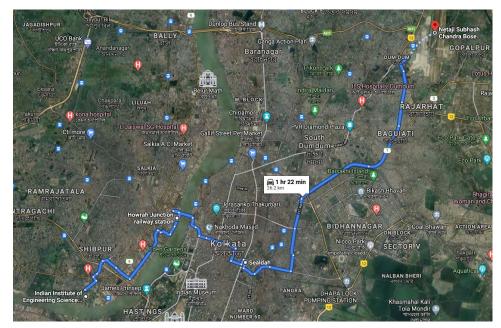
This Institute of National Importance (INI) is a Central Govt. Funded Technical Institute (CFTI). This makes different types of funding in the form of scholarships available for the students and faculties.

• Rich Legacy of Illustrious Alumni

The century-old legacy of the Institute has produced illustrious alumni who made remarkable contributions in different fields across the globe. To mention a few, the alumni consists among others Shanti Swarup Bhatnagar laureates like Soumitra Banerjee and Amitabha Bhattacharyya; and Padma Bhusan and Padma Shree recipients like Buddhadev Das Gupta and Chaitanyomoy Ganguli. The strong alumni network takes keen interest in contributing to the development of the Institute.

• Great Campus Life

Physically, IIEST Shibpur campus was once a part of the neighbouring AJC Bose Indian Botanic Garden. The flora and fauna of the campus makes it a great place to live. Different student clubs give the student a scope of a quality life outside academics in the campus. The proximity of the metro gives the students the scope of having occasional week-end hangouts at restaurants, multiplexes, theatres, shopping malls etc.



IIEST Shibpur Campus and its linking transport hubs: Howrah Junction, Sealdah Junction, NSC Bose Airport

2. B. Tech. / B Arch. Programs

The Institute offers full-time Four-Year (8-semester) undergraduate B.Tech. Programs in nine disciplines with an option to apply for dual degree courses extending over 10-semesters after successful completion of the sixth semester in the B.Tech. course and meeting the compliances of the provisions of the Ordinances and Regulations of the institute. After completion of the tenth semester dual degree course, the student will receive both B.Tech. and M.Tech. degrees of the respective discipline.

The Institute also offers a full-time Five-Year (10-semester) undergraduate B. Arch. Program in the Department of Architecture, Town and Regional Planning. Successful completion of the B. Arch. program will make a student eligible to earn a B.Arch. Degree in accordance to the norms of the Minimum Standards of Architectural Education Regulations prescribed by the Council of Architecture (COA), India.

The names of these ten departments are provided below along with link to departmental websites to provide a glimpse of the departmental profile.

Sl. No.	Departments	Departmental Website
1.	Aerospace Engineering and Applied Mechanics	https://www.iiests.ac.in/IIEST/AcaUnitDetails/AEAM
2.	Civil Engineering	https://www.iiests.ac.in/IIEST/AcaUnitDetails/CE
3.	Computer Science and Technology	https://www.iiests.ac.in/IIEST/AcaUnitDetails/CST
4.	Electrical Engineering	https://www.iiests.ac.in/IIEST/AcaUnitDetails/EE
5.	Electronics and Telecommunication Engineering	https://www.iiests.ac.in/IIEST/AcaUnitDetails/ETC
6.	Information Technology	https://www.iiests.ac.in/IIEST/AcaUnitDetails/IT
7.	Mechanical Engineering	https://www.iiests.ac.in/IIEST/AcaUnitDetails/ME
8.	Metallurgy and Materials Engineering	https://www.iiests.ac.in/IIEST/AcaUnitDetails/MME
9.	Mining Engineering	https://www.iiests.ac.in/IIEST/AcaUnitDetails/MIN
10.	Architecture, Town and Regional Planning	https://www.iiests.ac.in/IIEST/AcaUnitDetails/ARCH

3. Admission

Admission to B.Tech. and B.Arch. programs at the Indian Institute of Engineering Science and Technology (IIEST), Shibpur for the academic year 2021-22 will be done only through Joint Seat Allocation Authority (JoSAA – 2021).

3.1 Eligibility

Admission to B.Tech. and B.Arch. programs in IIEST, Shibpur, participating through Central Seat Allocation Board (CSAB 2021) will be as per the notifications issued by the Department of Higher Education, Ministry of Education, Govt. of India. The candidates seeking admission to IIEST, Shibpur, are required to qualify the JEE (Main) 2021 Examination, Paper 1 for admission to B. Tech. programs and Paper 2 for admission to B. Arch. program. The candidates also need to pass the Class XII Examination with the combination of specific subjects.

The above stated eligibility conditions are valid for the present academic year only. For further details, the candidates should refer to the Business Rules of Joint Seat Allocation Authority (JoSAA 2021).

3. 2 Seat Reservation

The Institute will follow the reservation policies of the MHRD, Govt. of India. Certificate for EWS/OBC(NCL)/SC/ST/PwD will be as per Govt. of India Rules.

3.3 Seat Matrix

The seat matrix for admission to B. Tech. and B. Arch. programs for the academic year 2021-2022 are stated below.

		Programme Name		Seat Pool										OBC-	Total (includes	Program	me Total
Institute Code	Program Code		State/ All India Seats		Open	Open- PwD	EWS	EWS- PwD	SC	SC- PwD	ST	ST- PwD	OBC- NCL	NCL- PwD	female supernumerar y)	Seat Capacity	Female supernum eray
			West Bengal	Gender-Neutral	7	1	1	1	3	0	1	0	5	0	19		
	4101	Aerospace Engineering (4 Years. Bachelor of	West Bengal	Female-only (including supernumerary)	2	0	0	0	1	0	1	0	1	0	5	48	0
	4101	Technology)	Other than West Bengal	Gender-Neutral	7	0	2	0	3	0	1	0	5	1	19		v
			Other than West Bengal	Female-only (including supernumerary)	2	0	1	0	1	0	0	0	1	0	5		
			West Bengal	Gender-Neutral	24	1	5	1	8	0	4	1	15	0	59		
	4109	Civil Engineering (4 Years, Bachelor of	West Bengal	Female-only (including supernumerary)	6	0	1	0	2	0	1	0	4	0	14	146	0
	4105	Technology)	Other than West Bengal	Gender-Neutral	22	1	6	0	9	1	3	1	15	0	58	110	Ŭ
		recunology)	Other than West Bengal	Female-only (including supernumerary)	5	0	1	1	2	0	1	0	4	1	15]	
	4110	Computer Science and Engineering (4 Years, Bachelor of Technology)	West Bengal	Gender-Neutral	15	1	4	0	6	0	2	0	10	0	38	96	0
			West Bengal	Female-only (including supernumerary)	4	0	1	0	1	0	1	0	2	1	10		
			Other than West Bengal	Gender-Neutral	15	1	4	0	5	1	3	0	10	0	39		
417			Other than West Bengal	Female-only (including supernumerary)	4	0	1	0	1	0	1	0	2	0	9		
41/	4111	Electrical Engineering (4 Years, Bachelor of Technology)	West Bengal	Gender-Neutral	15	1	4	0	5	0	3	1	10	0	39	96	0
			West Bengal	Female-only (including supernumerary)	4	0	1	0	1	0	1	0	2	0	9		
	4111		Other than West Bengal	Gender-Neutral	15	1	4	0	6	0	2	0	10	0	38	90	
			Other than West Bengal	Female-only (including supernumerary)	4	0	1	0	1	0	1	0	2	1	10]	
			West Bengal	Gender-Neutral	14	1	4	0	5	1	2	0	10	1	38		
	4125	Mechanical Engineering (4 Years, Bachelor of	West Bengal	Female-only (including supernumerary)	4	0	1	0	2	0	1	0	2	0	10	96	0
	4125	(a rears, bachelor or Technology)	Other than West Bengal	Gender-Neutral	15	1	4	0	6	0	3	0	10	0	39		v
			Other than West Bengal	Female-only (including supernumerary)	4	0	1	0	1	1	0	0	2	0	9	1	
			West Bengal	Gender-Neutral	7	0	2	0	3	0	2	0	5	0	19		
	4130	Mining Engineering (4 Years. Bachelor of	West Bengal	Female-only (including supernumerary)	2	0	0	0	1	0	1	0	1	0	5	48	0
	4150	(* Tears, Bachelor or Technology)	Other than West Bengal	Gender-Neutral	7	0	2	0	3	0	2	0	5	0	19	-10	v
			Other than West Bengal	Female-only (including supernumerary)	2	0	0	0	1	0	0	0	2	0	5	†	

		Programme Name	State/ All India Seats Seat Pool		Open									OBC-	Total (includes	Programme Total	
Institute Code	Program Code			Seat Pool		Open- PwD	EWS	EWS- PwD	SC	SC- PwD	ST	ST- PwD	OBC- NCL	NCL- PwD	female supernumerar y)	Seat Capacity	Female supernum eray
			West Bengal	Gender-Neutral	15	1	3	0	5	0	3	0	10	1	38		
		Information Technology (4 Years, Bachelor of	West Bengal	Female-only (including supernumerary)	4	0	1	0	1	0	1	0	3	0	10	96	0
	4140	(a rears, bachelor or Technology)	Other than West Bengal	Gender-Neutral	15	1	4	0	5	0	3	0	10	1	39	90	v
		077	Other than West Bengal	Female-only (including supernumerary)	3	0	1	0	1	1	1	0	2	0	9		
	4153 H		West Bengal	Gender-Neutral	10	0	3	0	4	0	2	0	7	1	27		0
		Telecommunication Engineering (4 Years, Bachelor of Technology)	West Bengal	Female-only (including supernumerary)	2	0	1	0	1	0	1	0	1	0	6	66	
			Other than West Bengal	Gender-Neutral	10	1	2	0	3	1	1	0	7	1	26		
417			Other than West Bengal	Female-only (including supernumerary)	3	0	1	0	1	0	0	0	2	0	7		
41/		Metallurgy and Materials Engineering (4 Years, Bachelor of Technology)	West Bengal	Gender-Neutral	7	1	1	0	3	0	1	0	5	1	19	48	0
			West Bengal	Female-only (including supernumerary)	2	0	1	0	1	0	0	0	1	0	5		
	4150		Other than West Bengal	Gender-Neutral	7	1	2	0	3	0	1	0	5	0	19		
			Other than West Bengal	Female-only (including supernumerary)	2	0	0	0	1	0	1	0	1	0	5		
			West Bengal	Gender-Neutral	3	1	1	0	1	0	1	0	2	0	9		
		Architecture (5 Years,	West Bengal	Female-only (including supernumerary)	1	0	0	0	1	0	0	0	1	0	3	- 24	
	5101	Bachelor of Architecture)	Other than West Bengal	Gender-Neutral	4	0	0	1	1	0	1	0	3	0	10		0
			Other than West Bengal	Female-only (including supernumerary)	1	0	0	0	0	0	0	0	1	0	2		
	Total						72	4	109	6	54	3	196	10	764	764	0
	Total 295 15 72 4 109 6 54 3 196 10 764 764 0																

Legends			
Open	Open Seats	Open - PwD	Open - PwD Seats (Person With Disability)
EWS	Economically Weaker Section	EWS-PwD	EWS-PwD Seats (Person With Disability)
OBC-NCL	OBC-NCL Seats	OBC-NCL-PwD	OBC-NCL-PwD Seats (Person With Disability)
SC	SC Seats	SC - PwD	SC - PwD Seats (Person With Disability)
ST	ST Seats	ST - PwD	ST - PwD Seats (Person With Disability)

4. Institute Fees for B. Tech. / B. Arch. Programs

Government of India has extended different types fees waiver schemes for students depending upon the annual income of their family and social category. The following tables enumerates these schemes.

with annual	EWS/OBC family income an ₹ 5 lakh	with anr	OC/EWS/OBC nual family income ₹ 1 lakh to ₹ 5 lakh	For SC/ST/PwD and any Other Category with annual family income less than ₹1 lakh				
Without hostel	With hostel	Without hostel	With hostel	Without hostel	With hostel			
₹71,000.00 [Including refundable caution money deposit of ₹4,000.00]	₹1,00,500.00 [Including refundable caution money deposit of ₹4,000.00 and mess advance of ₹17,500.00, which will be adjusted against the actual food	₹29,333.00 [Including refundable caution money deposit of ₹4,000.00]	₹58,833.00 [Including refundable caution money deposit of ₹4,000.00and mess advance of ₹17,500.00, which will be adjusted against the actual food bill]	₹8,500.00 [Including refundable caution money deposit of ₹4,000.00]	₹38,000.00 [Including refundable caution money deposit of ₹4,000.00and mess advance of ₹17,500.00, which will be adjusted against the actual food bill]			

Table 2A: Details of Institute Fees payable per semester

SI. No.	ltem	For OC/EWS/OBC with annual family income more than ₹5 lakh	For OC/EWS/OBC with annual family income between ₹1 lakh to ₹5 lakh	For SC/ST/PwD and any Other Category with annual family income less than ₹ 1 lakh
1	Admission Fee	₹500.00	₹500.00	₹500.00
2	Students Activity and Medical Insurance Fees	₹1,500.00	₹1,500.00	₹1,500.00
3	Infrastructure maintenance Fee	₹2,500.00	₹2,500.00	₹2,500.00
4	Examination Fee	₹1,000.00	₹1,000.00	₹1,000.00
5	Tuition Fee	₹62,500.00	₹20,833.00	-
6	Institute Caution Money (to be paid at the time of admission and refundable)	₹3,000.00	₹3,000.00	₹3,000.00
	Total	₹71,000.00	₹29,333.00	₹8,500.00

Table 2B: Details of Hostel Dues per semester

SI. No.	ltem	Amount per Semester (in ₹)
1	Hostel Maintenance Charge	2,200.00
2	Seat Rent	1,000.00
3	Electricity and Water Charges	800.00
	Total	4,000.00

Table 2C: Details of Mess Dues

SI. No.	ltem	Amount (in ₹)				
1	Mess caution money (one time and refundable)	1,000.00				
2	Mess Dues Advance (per semester and adjustable with the actual mess bills)	17,500.00				
	Mess Entrance Fee (per year and non-refundable)	3,000.00				
3	Mess Establishment Fees (per semester and non-refundable)	4,000.00				
	Total					

5. Compliance of Rules and Regulations

All students shall be guided by the 'Ordinances for Undergraduate Programs, 2019' of the Indian Institute of Engineering Science and Technology, Shibpur [Ref: https://www.iiests.ac.in].

All students are bound by the Institute Rules and must comply with 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. For vacations and holidays, the academic calendar notified at the beginning of each semester shall be followed.

The Campus of IIEST, Shibpur is RAGGING FREE zone. At the time of admission, each student shall be required to furnish an undertaking in non-judicial stamp paper of ₹10.00 and signed by a notary in a prescribed format (text will be made available in the website) that the student shall not indulge in any form of ragging. Appropriate action including expulsion from the Institute may be taken against the erring students.

6. The Institute Campus and Other Facilities

The Institute has a beautiful green campus covering an area of about 49hectares situated on the bank of the river Hooghly. It is located next to the AJC Bose 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.



Main Academic and Acharya SN Bose Building

The four-storied Main Academic Building accommodates most of the engineering departments, Department of Human Resources Management, Office of the Dean (Academics) and Office of the Deputy Registrar (Academics). The eight-storied Acharya S N Bose Building accommodates other engineering departments, architecture and science departments, and various centers and schools. SOCSAT is located inside a heritage building. Offices of the Director, Deans, Registrar, and other administrative offices are also located in the eight-storied building.

6.1 Central Facilities

6.1.1 Library

The Institute has a separate library building which is kept open from 9 AM to midnight. The library provides online search facilities (OPAC) of its database from any computer connected to the Internet 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 possesses 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 texts to publications of 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. It subscribes a large volume of ebooks. The library also has different software which helps the students to write papers and reports in correct English with the plagiarism checking.



Ramanujan Library

6. 1. 2 Computer Centre

All departments, schools and centres of the Institute have computing facilities for their students. In addition, there is a Central Computer Centre which provides computing facilities for undergraduate and post-graduate courses and research works. The Computer Centre along with the departments, schools, centers, offices and hostels are connected to a campus wide fibre optic network. The entire campus including the hostels is Wi-Fi enabled.

6.1.3 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 Building

6. 2 Health Service

The Institute has a Health Unit with Medical Officers and other supporting staff to serve the Primary medical needs of the campus inmates. It provides 24hours' ambulance service. The Unit has an ID Ward to effectively isolate students suffering from infectious diseases. However, for serious cases the patients are referred to suitable city hospital.

In the backdrop of the COVID-19 pandemic, the facilities in the Institute Health Unit have been strengthened. It is facilitated with fowler beds, oxygen cylinders, oxygen masks, IV Set etc. Doctors are available 24 x 7. It can function as an isolation Unit with primary health Care Facilities. Tele-medicine service is also available from 8 AM to 10 PM. Further, an arrangement has been made at the Institute Hospital to vaccinate the employees and their family members and also students residing in the Campus hostels.

6.3 Hostel Accommodation

The Institute, with a student population of more than 4000, has 18 hostels, including 3 girls' hostels. However, residential accommodation of all students, including undergraduate students, is not guaranteed due to shortage of seats in the hostels. Hostel accommodation is provided as per the availability of rooms. All new undergraduate students, who have been allotted hostel accommodation, is to report to the respective Hostel Warden on arrival at the Institute and produce the receipt for the first installment of fees.

Students residing in the hostels must pay Hostel Dues and Mess Dues. 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. The caution money, however, is to be paid only once at the time of admission. The caution money shall be refunded after the completion of the course. However, caution money shall be forfeited if not claimed within one year after passing out or leaving the Institution for any other reason, whichever is earlier. Students withdrawing from the Institute after admission may get a partial refund as per the refund policy of the Institute notified on the website.

All hostel residents should strictly abide by the "Code of conduct for students' / hostel residents" notified by the Institute which may be modified from time to time.

6.4 Students' Amenities

Office of the Dean of Students Welfare facilitates all students to use different facilities available at the campus. The 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. All students are encouraged to participate in games or some form of physical training. The students are advised to join the athletics Club and at least one of the societies in the Students' Activity Centre. The campus has the following amenities for the students.

- 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
- Alpona Banerjee Memorial Centre for Innovation
- Swimming Pool
- Basketball court
- Tagore Green Business Incubation Centre
- Student canteens/cafeteria as well as food kiosks serving multi-cuisine dishes.

7. Training and Placement

The Department of Human Resource Management is responsible for facilitating job placements as well as practical training for all students of this Institute. Every department has Departmental Training & Placement Committees to facilitate the training and placement for departmental students. The department assists the students in arranging training in industrial and educational establishments during summer vacation.

The activities of the HRM department are given below:

- Facilitating on Campus / Off Campus selection process for job placements of the students
- Vocational Training / Internship Program for students
- Grooming and counseling of the students
- Entrepreneurship development
- Exploring career options for the students
- Remedial Training for students

8. Industry and Alumni Relations

The Institute has Alumni Cell and Industry Institute Partnership Cell (IIPC) to strengthen the bond between Industry, Alumni and Institute and leverage the direct industrial opportunities to our graduate and postgraduate students.

For any specific inquiry regarding undergraduate admission, please mail us at <u>ugadmission@iiests.ac.in</u>

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