



## Office of the Dean Academic

Indian Institute of Engineering Science and Technology, Shibpur

(Formerly Bengal Engineering & Science University, Shibpur)

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No. 277/ACAD/2025

Date: August 19, 2025

### **NOTICE**

All PG 1<sup>st</sup> Semester students are hereby notified to provide their choice of Open Elective subjects via the Google Form linked below:

PG 1st Semester OE Choice Google Form: <https://forms.gle/6unQUxdhvjvBCm3Wy8>

Deadline for filling up the above form: 21<sup>st</sup> August 2025, Thursday, 3PM. The students must go through the attached list of Pre-requisites before they fill their choice.

### **Important instructions:**

1. Twenty-one (21) Open Elective (OE) subjects are being offered for PG 1st semester students. The student must go through the corresponding prerequisites of all OEs before selection the subject.
2. The student can choose OEs offered by other dept./centre/school, as well as your own dept./centre/school.
3. Make sure to rank ALL 21 OEs as per your preference (choice 1, choice 2, ... upto choice 21). No OE should be left out. This will enable the Academic Section to match your preference with available OE vacancies in the best possible way.
4. NO OE CHOICE SHOULD BE REPEATED. In case of repeated subject choice, the Academic Section shall assign any subject in place of the repetition.
5. Student's choices will be given precedence based on their final UG marks (pre-final marks will be considered in case the final result is yet to be published)
6. Maximum number of students to be allotted in each subject is 30.

This is issued with the concurrence of the Dean (Academic).

Sd/-


Dr.Nirmalya Kumar Bhattacharyya  
Joint Registrar (Academic)

No. 277/ACAD/1(05)/2025

Date: August 19, 2025

Copy forwarded for information and necessary action to:

1. All Heads of the Departments/Schools/Centers
2. The Chairman-SPGC
3. The Student Senate
4. The Academic Section-File
5. Institute Website

  
Joint Registrar (Academic)  
IIEST, Shibpur

**List of PG 1st Sem Open Elective (OE) subjects offered in AY 2025-26**

Sl. No.	Title of the OE Subject	Code of the OE Subject	Prerequisites*	Offering Department / School / Centre**
1	Human Body Mechanics	AM5162N	Knowledge of Mechanics	Aerospace Engineering and Applied Mechanics
2	Medical Device Technologies	HC5164N	Human Physiology for Engineers, Basics of Biomedical Instrumentation, Introduction to Material Science and Engineering	Centre of Healthcare Science and Technology
3	Synthetic Drugs and Clinical trials	HC5163N	Basic Biology, Chemistry, Physics	Centre of Healthcare Science and Technology
4	Chemistry of Nanomaterials	CH5161	NIL	Chemistry
5	Climate change Impact Analysis	CE5161N	Nil	Civil Engineering
6	Transportation in Logistics Management	CE5164N	Nil	Civil Engineering
7	Soft Computing	CS5161N	Mathematical background, Concept of Algorithm, Programming skill and critical thinking to solving problems.	Computer Science and Technology
8	Introduction to Earth materials	ES5161N	Basic knowledge of Physics, Chemistry, Mathematics	Earth Science
9	High-Performance Computation (HPC) Using CPU and GPU for AI Applications	EE5161N	(i) Basic programming knowledge in C, C++, or Python, (ii) Familiarity with Linux commands is recommended, (iii) Prior exposure to AI frameworks (Tensor Flow/PyTorch) is beneficial	Electrical Engineering
10	Electronic Communication Systems	ET5161	Signals and Systems	Electronics and Telecommunication Engineering
11	Technical and Research writing for Engineers	HSC5162N	Professional Communication in English	Humanities and Social Sciences
12	Introduction to Intellectual Property Right	NUJS 5201	Nil	Humanities and Social Sciences
13	Cryptographic Techniques	IT5163N	Network and Information Security	Information Technology
14	Discrete Mathematics	MA5161N	NIL	Mathematics
15	Renewable and Alternative Energy	ME-5161N	NIL	Mechanical Engineering
16	Industrial Robotics	ME5162N	Mechanics	Mechanical Engineering
17	Selection of Engineering Materials	MM5162N	None	Metallurgy and Materials Engineering
18	Dynamics of Systems-I	PH5161	Elementary ideas of solving ordinary differential equation	Physics
19	Introduction to Astrophysical Plasmas	PH5163	Vector Algebra, Basic electrodynamics	Physics
20	Fundamentals of Renewable Energy and its Impact on Environment	GS5161	Renewable Energy and Environment	School of Advanced Materials Green Energy and Sensor System
21	Product Design and Development	MC5161N	None	School of Mechatronics & Robotics

\*Students must go through the prerequisites list very carefully, before giving their OE preference

\*\*Students can choose OE subjects offered by other depts. as well as by their own dept.