

Gujarat Technological University

BE - Semester IV (Institute Elective –I)

Sr. No.	Branch/Group	Offered Institute Elective-I	Restricted Branches (Students of these branches cannot be offered the particular Institute Elective-I)
1	Aeronautical Engineering	Fundamentals of Aeronautics	Aeronautical Engineering
2	Automobile Engineering	Fundamentals of Automobile Systems	Automobile Engineering
3	Biomedical Engineering	Physiological Measurement Techniques	Biomedical Engineering, Bio-Technology, Instrumentation & Control
4	Bio-Technology	Food Science and Biotechnology	Bio-Technology, Chemical Engineering
5	Chemical Engineering	Fundamental Chemical Engineering Calculations & Stoichiometry	Chemical Engineering, Food Processing Technology
6	Civil Engineering	Advanced Strength of Materials	Civil Engineering, Automobile Engineering
7	Electronics Engineering/E & TC/Electrical & Electronics Engineering, Electronics & Communication Engineering, Information & Communication Technology	Communication Engineering	Electronics Engineering/E & TC/Electrical & Electronics Engineering, Electronics & Communication, Instrumentation & Control, Power Electronics, Information & Communication Technology
8	Electrical Engineering	Energy Systems	Electrical Engineering, Mechanical Engineering , Chemical Engineering
9	Environmental Engineering	Water Pollution & Control	Environmental Engineering, Civil Engineering, Chemical Engineering , Food Processing Technology
10	Food Processing Technology	Principles of Food Engineering	Food Processing Technology, Chemical Engineering , Bio-Technology

11	Industrial Engineering	Productivity Engineering	Industrial Engineering, Mechanical Engineering, Production Engineering
12	Instrumentation and Control Engineering	Transducers	Instrumentation and Control Engineering, Electronics Engineering/E & TC/Electrical & Electronics Engineering, Electronics & Communication, Electrical Engineering, Power Electronics, Bio-Technology, Bio-Medical Engineering, Food Processing Technology, Information & Communication Technology
13	Computer Engineering / IT	Object Oriented Concepts and Programming (OOCPP)	Computer Engineering, Information & Technology
14	Marine Engineering	Basic Ship Structure and Construction	Marine Engineering
15	Mechanical Engineering	Non-Conventional Energy	Mechanical Engineering, Electrical Engineering, Chemical Engineering, Food Processing Technology
16	Mechatronics Engineering	Basic Mechatronics	Mechatronics Engineering, Production Engineering,
17	Metallurgy Engineering	Metallurgy for Non-Metallurgists	Metallurgy Engineering, Mechanical Engineering, Production Engineering, Industrial Engineering
18	Mining Engineering	Mineral Transport Engineering	Mining Engineering
19	Plastics Engineering	Plastics Packaging Technology	Plastics Engineering, Food Processing Technology
20	Power Electronics	Fundamentals of Power Electronics	Power Electronics, Electronics Engineering/E & TC/Electrical & Electronics Engineering, Electronics & Communication Engineering, Instrumentation & Control, Electrical Engineering
21	Production Engineering	Fundamentals of Quality Management	Production Engineering, Industrial Engineering, Automobile Engineering
22	Rubber Technology	Introduction to Rubbers & Rubbery Materials	Rubber Technology
23	Textile Production/Textile Tech.	Elements of Textile Processes	Textile Production/Textile Technology

