

Gujarat Technological University

BE - Semester V (Institute Elective –II)

Note : Institute Elective is the subject where a student can opt for a course of his own choice which is offered as an Institute Elective from a department (branch) other than his parent department (branch).

Sr. No.	Branch/Group	Offered Institute Elective-II	Restricted Branches (Students of these branches cannot be offered the particular Institute Elective-II)
1	Aeronautical Engineering	Composite Materials and Smart Structures	–
2	Automobile Engineering	Automotive Maintenance and Repair Practic	–
3	Biomedical Engineering	Modelling and Simulation of Biological Systems	Bio-Technology
4	Bio-Technology	The Science of Life	-
5	Chemical Engineering	Fundamentals of Chemical Engineering Unit Operations	Bio-Technology, Food Processing Technology, Mechanical Engineering
6	Civil Engineering	Disaster Assessment Using Geospatial Techniques	–
7	Electronics Engineering/E & TC/Electrical & Electronics Engineering, Electronics & Communication Engineering	Applied Electronics	Electrical Engineering, Instrumentation and Control Engineering, Power Electronics
8	Electrical Engineering	Electrical Power Utilization and Traction	Power Electronics
9	Environmental Engineering	Air Pollution and Control	Civil Engineering, Mining Engineering

10	Food Processing Technology	Food Nutrition and Health	Bio-Technology
11	Industrial Engineering	Marketing Management	–
12	Instrumentation and Control Engineering	Industrial Control Systems	Bio-Technology, Chemical Engineering
13	Computer Engineering / IT/CSE	Visual Basic Applications and Programming	–
14	Marine Engineering		–
15	Mechanical Engineering	Conventional Power Engineering	–
16	Mechatronics Engineering	Quantitative Techniques in Management	Mechanical Engineering, Industrial Engineering, Production Engineering, Food Processing Technology
17	Metallurgy Engineering	Industrial Corrosion and its Prevention	Chemical Engineering
18	Mining Engineering	Fuel Technology	Chemical Engineering, Metallurgy Engineering, Mechanical Engineering
19	Plastics Engineering	Plastic Processing and Machinery	–
20	Power Electronics	Power Electronics Applications	Instrumentation and Control Engineering, Electronics Engineering/E & TC/Electrical & Electronics Engineering, Electronics & Communication Engineering, Electrical Engineering, Mechatronics Engineering
21	Production Engineering	Project Management	Industrial Engineering
22	Rubber Technology	Manufacturing and its Applications	–
23	Textile Production	Production & Applications of Colorants & Auxiliaries	–
24	Textile Technology	Textile Manufacturing Processes	–