

**BOARD OF TECHNICAL EDUCATION, GOA STATE**  
**PROGRAMME STRUCTURE- 39 ELECTRONICS AND INSTRUMENTATION ENGG.**

Sr. No.	E/C	SUBJ. CODE	SUBJECT NAME	SUBJECT HEADS			EXAMINATION SCHEME				
				TH	PR	TW	MAX TH	MAX TEST	MAX PR	MAX TW	TOTAL
<b>SEMESTER I</b>											
1	C	GN101	COMM SKILLS	0	1	1	0	0	50	50	100
2	C	GN102	ENGG MATHS - I	1	0	0	75	25	0	0	100
3	C	GN103	APPLIED PHYSICS - I	1	0	1	75	25	0	50	150
4	C	GN104	APPLIED CHEMISTRY	1	0	1	75	25	0	50	150
5	C	GN204	ENGG. DRAWING	0	1	1	0	0	50	50	100
<b>SEMESTER II</b>											
1	C	GN105	COMP. FUND. & APP.	0	1	1	0	0	50	50	100
2	C	GN106	BASIC ENGG SKILLS	0	1	1	0	0	50	100	150
3	C	GN201	ENGG MATHS - II	1	0	0	75	25	0	0	100
4	C	GN202	APPLIED PHYSICS - II	1	0	1	75	25	0	50	150
5	C	GN203	ENVIRONMENTAL STUDIES	1	0	0	75	25	0	0	100
6	C	GN205	ENGG. MATERIALS	1	0	0	75	25	0	0	100
<b>SEMESTER III</b>											
1	C	CS304	BASIC ELECTRICAL ENGG.	1	0	1	75	25	0	25	125
2	C	CS306	PROGRAMMING IN C	0	1	1	0	0	50	50	100
3	C	CS308	BASIC ELECTRONICS ENGG.	1	1	1	75	25	50	25	175
4	C	CS309	DIGITAL ELECTRONICS	1	1	1	75	25	50	25	175
5	C	EN301	ELECTRONICS MEASUREMENT	1	0	1	75	25	0	25	125
6	C	EN302	COMP. AIDED PCB DESIGN	0	0	1	0	0	0	50	50
<b>SEMESTER IV</b>											
1	C	CS501	ENTREPRENEURSHIP DEVELOPMENT	0	0	1	0	0	0	50	50
2	C	EN401	ELECTRONIC CIRCUIT	1	1	1	75	25	50	25	175
3	C	EN402	ANALOG COMMUNICATION	1	0	1	75	25	0	25	125
4	C	EN403	CIRCUITS & NETWORKS	1	0	1	75	25	0	25	125
5	C	EN404	ELECTRONIC INSTRUMENTATION	1	0	1	75	25	0	25	125
6	C	EN405	ANALOG ELECTRONICS	1	1	1	75	25	50	25	175
<b>SEMESTER V</b>											
1	C	EN501	8051 MICROCONTROLLER	1	1	1	75	25	25	25	150
2	C	EN502	POWER ELECTRONICS	1	0	1	75	25	0	25	125
3	C	EN504	COMP. AIDED DESIGN & DRAFTING	0	1	1	0	0	50	50	100
4	C	IT501	INDUSTRIAL TRAINING	0	1	1	0	0	30	70	GRADE
5	E1	EN511	DIGITAL COMMUNICATION	1	0	1	75	25	0	25	125
6	E1	EN512	VHDL PROGRAMMING	1	0	1	75	25	0	25	125
7	E1	EN513	BIOMEDICAL INSTRUMENTATION	1	0	1	75	25	0	25	125
8	E1	EN516	ELEC PNEU.&HYDRAU CNTRL. CKTS	1	0	1	75	25	0	25	125
<b>ANY ONE OF E1</b>											
<b>SEMESTER VI</b>											
1	C	CS602	BUSINESS COMMUNICATION	0	1	1	0	0	50	50	100
2	C	EN604	ELECTRONIC PROJECT	0	1	1	0	0	50	50	100
3	C	EN607	INDUSTRIAL INSTRUMENTATION	1	0	1	75	25	0	25	125
4	C	EN608	COMP. CONTROL IN PROCESS PLANT	1	0	1	75	25	0	25	125
5	E2	EN613	ADVANCED MICROCONTROLLERS	1	1	1	75	25	25	25	150
6	E2	EN616	INDUSTRIAL AUTOMATION	1	1	1	75	25	25	25	150
7	E2	EN617	ANALYTICAL INSTRUMENTATION	1	1	1	75	25	25	25	150

**BOARD OF TECHNICAL EDUCATION, GOA STATE**  
**PROGRAMME STRUCTURE- 39 ELECTRONICS AND INSTRUMENTATION ENGG.**

8	E2	EN618	DATA COMMUNICATION	1	1	1	75	25	25	25	150
9	E2	EN619	BUILDING AUTOMATION	1	1	1	75	25	25	25	150
10	E2	ME615	RENEWABLE ENERGY SOURCES	1	1	1	75	25	25	25	150
11	E2	IE6**	INSTITUTIONAL ELECTIVE	1	1	1	75	25	25	25	150
<b>ANY TWO OF E2</b>											