

PROGRAMME STRUCTURE
FOR
DIPLOMA PROGRAMME IN
ELECTRONICS & INSTRUMENTATION ENGINEERING
UNDER RATIONALISED SEMESTER SYSTEM
(IMPLEMENTED FROM ACADEMIC YEAR 2020-2021)



BOARD OF TECHNICAL EDUCATION, GOA STATE

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Directorate of Technical Education, Goa State

DIPLOMA IN ELECTRONICS AND INSTRUMENTATION ENGINEERING - CURRICULUM STRUCTURE											
Semester	Code	Subjects	L	T	P	H	TH	TM	PR	TW	TOT
FIRST	GC102	Engineering Mathematics I	4	2	0	6	75	25	-	25	125
	GC103	Applied Physics I	3	0	2	5	75	25	-	25	125
	GC107	Basic Engineering Practice (Electrical & Mechanical)	0	0	5	5	-	-	50	75	125
	GC104	Applied Chemistry	3	0	2	5	75	25	-	25	125
	GC204	Engineering Drawing	0	0	5	5	-	-	50	50	100
			10	2	14	26	225	75	100	200	600
SECOND	GC201	Engineering Mathematics II	4	2	0	6	75	25	-	25	125
	GC202	Applied Physics II	3	0	2	5	75	25	-	25	125
	GC101	Communications Skills	0	0	2	2	-	-	25	25	50
	GC203	Environmental Science	4	0	0	4	75	25	-	-	100
	GC106	Basic Engineering Practice (Electronics & Computers)	0	0	4	4	-	-	50	50	100
	GC205	Engineering Materials	3	0	0	3	75	25	-	-	100
			14	2	8	24	300	100	75	125	600
THIRD	CC304	Basic Electrical Engineering	3	0	2	5	75	25	-	25	125
	EX302	Programming in C	0		4	4	-	-	50	25	75
	CC308	Basic Electronics Engineering	3	0	2	5	75	25	25	25	150
	CC309	Digital Electronics	3	0	2	5	75	25	25	25	150
	EX301	Communication Engg	3	0	2	5	75	25	-	25	125
	CC303	Circuits & Networks	3	0	2	5	75	25	-	25	125
			15	0	14	29	375	125	100	150	750
FOURTH	EX401	Electronic Circuits	3	0	2	5	75	25		25	125
	EX408	Process Instrumentation	3	0	2	5	75	25		25	125
	EX403	8051 Microcontroller	3	0	2	5	75	25	25	25	150
	EX404	Maintenance and Circuit simulation using CADD	0	0	4	4			50	25	75
	EX405	Linear Integrated Circuits	3	0	2	5	75	25	25	25	150
	EX406	Electronic Measurements & Instrumentation	3	0	2	5	75	25		25	125
			15	0	14	29	375	125	100	150	750

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FIFTH	TR501	Industrial Training			4	4			30	70	GRADE
	CC602	Business Communication	0	0	2	2			25	25	50
	EX501	Programmable logic Controllers	3	0	2	5	75	25		25	125
	CC601	Industrial Organization & Management	3	0	0	3	75	25			100
		Elective 1	3	0	2	5	75	25	25	25	150
			9	0	6	15	225	75	50	75	425
	EX637	Industrial Communication	3	0	0	3	75	25			100
	CC501	Entrepreneurship Development	0	0	2	2				25	25
	EX605	Computer Control in Process Plant	3	0	2	5	75	25		25	125
		Elective 2	3	0	2	5	75	25	25	25	150
		Elective 3	3	0	2	5	75	25	25	25	150
	EX603	Project			8	8			50	100	150
			12	0	16	28	300	100	100	200	700
L- Lecturers T – Tutorial P – Practical C-Credits TH – Theory Marks TM – Test Marks PR – Practical Marks TW- Term Work Marks											

ELECTIVE GROUPS E1, E2, & E3

Code	Elective 1: General (SEM V)
EX632	Electro Pneumatic Control Circuits
EX636	Distributed control systems
EX612	Autonomous Robots
EX634	Analytical Instrumentation

Code	Elective 2 (SEM VI)
EX635	Building Automation
EX641	Instrumentation in Pharma Industry
EX642	Instrumentation in Food and Beverage Industry
EX643	Instrumentation in Water supply and sewage treatment system

Code	Elective 3 (SEM VI)
EX638	Industrial Internet of Things (IIOT)
EX639	IBMS (Integrated Building Management Systems)
EX640	Instrumentation in Fertilizer Industry
EX646	Airport Automation