

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



GOVERNMENT OF GOA
BOARD OF TECHNICAL EDUCATION, GOA STATE

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Directorate of Technical Education, Goa State

DIPLOMA IN ELECTRICAL & ELECTRONICS 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
	GC104	Applied Chemistry	3	0	2	5	75	25	-	25	125
	GC107	Basic Engineering Practice (Electrical & Mechanical)	0	0	5	5	-	-	50	75	125
	GC204	Engineering Drawing	0	0	5	5	-	-	50	50	100
			10	2	14	26					600
SECOND	GC101	Communication Skills	0	0	2	2	-	-	25	25	50
	GC106	Basic Engineering Practice (Electronics & Computer)	0	0	4	4	-	-	50	50	100
	GC201	Engineering Mathematics II	4	2	0	6	75	25	-	25	125
	GC202	Applied Physics II	3	0	2	5	75	25	-	25	125
	GC203	Environmental Science	4	0	0	4	75	25	-	-	100
	GC205	Engineering Materials	3	0	0	3	75	25	-	-	100
			14	2	8	24					600
THIRD	EL302	Electrical Machines I	4	0	2	6	75	25	-	25	125
	EL303	Electrical Measurement & Instruments	3	0	2	5	75	25	25	25	150
	CC307	Elements of Mechanical Engg.	3	0	2	5	75	25	-	25	125
	CC303	Circuit & Networks	3	0	2	5	75	25	-	25	125
	CC309	Digital Electronics	3	0	2	5	75	25	25	25	150
	EL405	Electrical & Electronics Workshop	0	0	4	4	-	-	25	50	75
			16	0	14	30					750
FOURTH	EL408	Power Generation Transmission & Distribution	3	0	0	3	75	25	-	-	100
	EL305	Electrical Drawing using CAD	0	0	4	4	-	-	50	50	100
	EL401	Electrical Machines II	4	0	2	6	75	25	25	25	150
	EL402	Applied & Integrated Electronics	3	0	2	5	75	25	25	25	150
	EL404	Electronic Instrumentation System	3	0	2	5	75	25	-	25	125
	EL406	Elements of communication system	3	0	2	5	75	25	-	25	125
			16	0	12	28					750
FIFTH	EL501	Switchgear & Protection	4	0	0	4	75	25	-	-	100
	EL502	Power Electronics & Drives Control	4	0	2	6	75	25	-	25	125
		Elective I	3	0	2	5	75	25	25	25	150
	CC602	Business Communication	0	0	2	2	-	-	25	25	50
	TR501	Industrial Training	-	-	4	4			30	70	GRADE
	AC101	Essence of Indian Traditional Knowledge	2	0	0	2	-	-	-	-	-
			13	0	10	23					425

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SIXTH	EL601	Electrical Drives	3	0	2	5	75	25	-	25	125
	EL602	Project	0	0	6	6	-	-	50	100	150
		Elective II	3	0	2	5	75	25	25	25	150
		Elective III	3	0	2	5	75	25	25	25	150
	CC502	Essentials of Entrepreneurship Development	0	0	2	2	-	-	-	25	25
	CC601	Industrial Organisation & Manag.	3	0	0	3	75	25	-	-	100
	AC102	Indian Constitution	2	0	0	2	-	-	-	-	-
			14	0	14	28					700
L- Lecturers T - Tutorial P - Practical H- Hours TH - Theory Marks TM - Test Marks PR - Practical Marks TW- Term Work Marks											

Elective List

Elective I	
EL611	Utilisation of Electrical Energy
EL632	Electrical Safety Management
EX611	Biomedical Instrumentation
EL629	Solar and Wind Energy System

Elective II	
EL622	Substation Practices
EL630	Energy management
EL618	Testing & Maintenance of Electrical Machines
EX617	Mobile communications

Elective III	
MC612	PLC in Automation
EX631	TV Engineering
EX624	Consumer Electronics
EX628	VLSI design & Applications