

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



BOARD OF TECHNICAL EDUCATION, GOA STATE

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DIPLOMA IN ELECTRONICS ENGINEERING - CURRICULUM STRUCTURE

Semester	Code	Subjects	L	T	P	C	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
	GC106	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
	GC105	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	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
	EX402	Power Electronics	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
L- Lectures T – Tutorial P – Practical C-Credits TH – Theory Marks TM – Test Marks PR – Practical Marks TW- Term Work											

Directorate of Technical Education, Goa State

DIPLOMA IN ELECTRONICS ENGINEERING - CURRICULUM STRUCTURE

Semester	Code	Subjects	L	T	P	C	TH	TM	PR	TW	TOT
FIFTH	TR501	Industrial Training	0	0	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
	AC101	Audit Course- Essence of Indian Knowledge and Tradition	2	0	0	2					
			11	0	10	21	225	75	50	75	425
SIXTH	EX601	Digital Communication Techniques	3	0	0	3	75	25	-	-	100
	CC502	Essentials Of Entrepreneurship Development	0	0	2	2	-	-	-	25	25
	EX602	Industrial Electronics	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			6	6			50	100	150
	AC102	Audit Course- Indian Constitution	2	0	0	2					
			14	0	14	28	300	100	100	200	700
L- Lectures 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)
EX614	Audio and Video Engineering
EX613	Advanced microcontrollers
EX611	Biomedical Instrumentation
EX612	Autonomous Robots

Code	Elective 2 (SEM VI)
EX619	Data Communication
EX616	Robotics
EX615	VHDL
EX621	Digital Signal Processing

Code	Elective 3 (SEM VI)
EX624	Consumer Electronics
EX617	Mobile communication
CC503	Renewable Energy Systems and Energy Management
EX620	Image Processing