

PROGRAMME STRUCTURE
FOR
DIPLOMA PROGRAMME IN
FABRICATION TECHNOLOGY & ERECTION
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

COURSE STRUCTURE FOR FABRICATION TECHNOLOGY & ERECTION ENGINEERING											
SEMESTER	COURSE CODE	NAME OF COURSE	TEACHING SCHEME				EXAMINATION SCHEME				Total Marks
			L	T	P	H	Theory		Practical		
							TH	TM	PR	TW	
FIRST	GC101	Communication	0	0	2	2	-	-	25	25	50
	GC102	Engineering Maths-I	4	2	0	6	75	25	-	25	125
	GC103	Engineering	3	0	2	5	75	25	-	25	125
	GC105	Basic Engineering Practice (Electronic. & Comp)	0	0	4	4	-	-	50	50	100
	GC203	Environmental	4	0	0	4	75	25	-	-	100
		Total	11	2	8	21	225	75	75	125	500
SECOND	GC104	Applied	3	0	2	5	75	25	-	25	125
	GC106	Basic Engineering Practice (Mech. & Elect)	0	0	5	5	-	-	50	75	125
	GC201	Engineering Maths-II	4	2	0	6	75	25	-	25	125
	GC202	Engineering	3	0	2	5	75	25	-	25	125
	GC204	Engineering	0	0	5	5	-	-	50	50	100
	GC205	Engineering	3	0	0	3	75	25	-	-	100
		Total	13	2	14	29	300	100	100	200	700
THIRD	CC301	Engineering Mechanics	3	1	1	5	75	25	-	25	125
	CC307	Elements of Mechanical Engg	3	0	0	3	75	25	-	25	125
	FB301	Basic Welding Technology	3	0	4	7	75	25	25	25	150
	FB302	Fabrication	2	0	4	6	75	25	-	25	125
	FB303	Basic Fabrication Process	3	0	2	5	75	25	25	25	150
	FB304	Electrical Engineering	0	0	2	2	-	-	50	25	75
		Total	14	1	13	28	375	125	100	150	750
FOURTH	FB401	Advanced Welding	3	0	4	7	75	25	25	25	150

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	FB402	Advanced Fabrication	3	0	4	7	75	25	25	25	150
	FB403	Treatment on	3	0	0	3	75	25	-	-	100
	FB404	Mechanics of	3	0	1	4	75	25	-	25	125
	MC304	Computer Aided Drafting	0	0	4	4	-	-	50	50	100
	FB405	Elements of Civil Engineering	3	0	2	5	75	25	-	25	125
		Total	15	0	15	30	375	125	100	150	750
FIFTH	FB501	Industrial							100	100	GRADE
		Total									GRADE
SIXTH	FB601	Theory of	4	1	0	5	75	25	-	25	125
	FB602	Mechanical	3	0	1	4	75	25	-	25	125
	FB603	Erection	3	0	4	7	75	25	25	25	150
	CS601	Industrial	3	0	0	3	75	25	-	-	100
	FB605	Fabrication	0	0	4	4	-	-	50	50	100
		Elective-I	3	0	2	5	75	25	25	25	150
		Total	16	1	11	28	375	125	100	150	750
	CC501	Entrepreneurship	0	0	2	2	-	-	-	25	25
SEVENTH	FB701	Structural Steel	4	0	4	8	75	25	25	25	150
	FB702	Civil Estimation	3	0	1	4	75	25	-	25	125
	FB703	Fabrication	3	0	2	5	75	25	25	25	150
	FB704	Fabrication	0	0	4	4	-	-	50	100	150
		Elective-II	3	0	2	5	75	25	25	25	150
		Total	13	0	15	28	300	100	125	225	750
EIGHTH	FB801	Fabrication							100	100	GRADE
		Total									GRADE
L- Lecturers T – Tutorial P – Practical H-Hours TH – Theory Marks TM – Test Marks PR – Practical Marks TW- Term Work Marks											

LIST OF ELECTIVES (AS PER CAREER OPTIONAL/VERTICALS)
VERTICALS AND ELECTIVES FOR VI & VII SEMESTER OF FTEE COURSE

VERTICALS					
Semester	<u>Advanced Fabrication & Repair Technology</u>	<u>Off Shore Engineering</u>	<u>Boilers & Piping Technology</u>	<u>Allied Subject</u>	<u>Others</u>
VI	Repair & Maintenance welding	Surface Treatment & Corrosion Prevention	Fabrication of Boilers & Pressure Vessels	Quality Control & Inspection	Material Management
VII	Advanced CAD-CAM- CNC	Off Shore Structures	Piping Fabrication and Installation	Safety Engineering	Renewable Energy