

PROGRAMME STRUCTURE
FOR
DIPLOMA PROGRAMME IN
CIVIL ENGINEERING /CIVIL(CONSTRUCTION)
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 CIVIL/CIVIL(CONSTRUCTION) ENGINEERING

SEM	COURSE CODE	NAME OF COURSE	TEACHING SCHEME				EXAMINATION SCHEME				Total Marks
			L	T	P	H	Theory		Practical		
							TH	TM	PR / OR	TW	
I	GC 101	Communication Skills	0	0	2	2	0	0	25	25	50
	GC 102	Engineering Maths- I	4	2	0	6	75	25	0	25	125
	GC 103	Applied Physics- I	4	0	2	6	75	25	0	25	125
	GC 105	Basic Engineering Practice (Electronics and Comp.)	0	0	4	4	0	0	50	50	100
	GC 203	Environmental Science	3	0	0	3	75	25	0	0	100
		Total	11	2	8	21	225	75	75	125	500
II	GC 104	Applied Chemistry	3	0	2	5	75	25	0	25	125
	GC 106	Basic Engineering Practice (Mech. and Electrical)	0	0	5	5	0	0	50	75	125
	GC 201	Engineering Maths- II	4	2	0	6	75	25	0	25	125
	GC 202	Applied Physics- II	3	0	2	5	75	25	0	25	125
	GC 205	Engineering Materials	3	0	0	3	75	25	0	0	100
	GC 204	Engineering Drawing	0	0	5	5	0	0	50	50	100
		Total	13	2	14	29	300	100	100	200	700
III	CC 301	Engineering Mechanics	3	1	1	5	75	25	0	25	125
	CI 301	Surveying I	3	0	3	6	75	25	25	25	150
	CI 302	Building Construction	3	0	2	5	75	25	0	25	125
	CI 303	Concrete Technology	3	0	2	5	75	25	0	25	125
	CI 304	Transportation Engineering-I	3	0	0	3	75	25	0	0	100
	CI 305	Civil Engineering Drawing	0	1	4	5	0	0	50	75	125
		Total	15	2	12	29	375	125	75	175	750
IV	CI 401	Surveying II	3	0	3	6	75	25	25	25	150
	CI 402	Materials and Structures	3	0	2	5	75	25	0	25	125
	CI 403	Hydraulics	3	0	2	5	75	25	0	25	125
	CI 404	Computer Aided Civil Engineering	0	0	4	4	0	0	50	50	100
	CI 405	Quantity Surveying & Costing	2	0	2	4	75	25	0	25	125
	CI 406	Soil Mechanics	3	0	2	5	75	25	0	25	125
		Total	14	0	15	29	375	125	75	175	750

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			L	T	P	H	Theory		Practical		
							TH	TM	PR / OR	TW	
V	CN 501	Civil Construction Training-I	0	0	30	30	50	50	50	50	Grade
		Total					50	50	50	50	Gr.
VI	CI 502	Analysis of Structures	3	0	0	3	75	25	0	0	100
	CI 602	Irrigation Engineering	3	0	0	3	75	25	0	0	100
	CI 603	Design of Steel Structures	3	0	2	5	75	25	0	25	125
	CN 601	Architectural Engineering	2	0	6	8	0	0	50	100	150
	CN 602	Professional & Life Skills	1	0	2	3	0	0	50	75	125
	E-I	Elective-I	3	0	2	5	75	25	25	25	150
	AC 101	Essence of Indian Knowledge & Tradition	2	0	0	2	-	-	-	-	Gr.
VII		Total	17	0	12	29	300	100	125	225	750
	CI 601	Public Health Engineering	3	0	2	5	75	25	0	25	125
	CI 501	Design of Concrete Structures	3	0	2	5	75	25	25	25	150
	CI 604	Civil Engineering Project	0	0	6	6	0	0	50	50	100
	CN 701	Project Management	3	0	2	5	75	25	0	50	150
	E-II	Elective -II	3	0	2	5	75	25	25	25	150
	AC 102	Indian Constitution	2	0	0	2	-	-	-	-	Gr.
		Total	14	0	14	28	300	100	100	175	675
SEM	COURSE CODE	NAME OF COURSE	TEACHING SCHEME				EXAMINATION SCHEME				Total Marks
			L	T	P	H	DD	PA	TR	SR	
VIII	CN 801	Civil Construction Training-II	0	0	30	30	50	50	50	50	Grade
		Total					50	50	50	50	Gr.
		TOTAL MARKS OF ALL SEMESTERS									4125
L-Lecturers, T-Tutorials, P-Practical, C-Hours, TH-Theory Marks, TM-Test Marks											
PR-Practical Marks, TW-Term Work Marks,											
For Training DD-Daily Dairy, PA-Progressive Assessment, TR-Training Report, SR-Seminar											
Duration of Theory Paper 3 hours											

ELECTIVE GROUP (ELECTIVE-I (EVEN) AND ELECTIVE-II (ODD))

ELECTIVE-I		ELECTIVE-II	
CI 611	Building Maintenance, Repair and Retrofitting	CI 612	Solid Waste Management
CI 621	Geotechnical Engineering	CI 613	Transportation Engineering-II
CI 624	Construction Equipment and Machinery	CI 614	Construction Advanced
CN 603	Automation Systems in Civil Engineering	CI 622	House Plumbing and Sanitation
		CI 625	Sustainable Design of Buildings
		CI 626	Enterprise in Civil Engineering