

Four Year Degree Course in Bachelor of Engineering Branch: **CIVIL ENGINEERING**
Semester Pattern (Choice Based Credit Grade System)

SEMESTER : THIRD

Sr. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME									
			HOURS / WEEK			Total HOURS/WEEK	CREDITS	THEORY					PRACTICAL				
			Lecture	Tutorial	P/D			Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks	
THEORY																	
01	3CE01	Engineering Mathematics-III	3	1	--	4	4	3	80	20	100	40	--	--	--	--	
02	3CE02	Strength of Materials	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
03	3CE03	Building Construction & Engineering. Geology	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
04	3CE04	Transportation Engineering	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
05	3CE05	Concrete Technology & RCC	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
06	4ES06	**Environmental Science	2	--	--	2	--	--	--	--	--	--	-	-	-	-	
PRACTICALS / DRAWING / DESIGN																	
07	3CE07	Strength of Materials- lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
08	3CE08	Building Construction & Engineering. Geology-lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
09	3CE09	Transportation Engineering-lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
10	3CE10	Concrete Technology & RCC-lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
Total			17	1	8	26	20	--	--	--	500	--	--	--	200	--	
Grand Total														700			

Note: **The Examination of Mandatory Subject Environmental Science shall be conducted in IV Semester.

SEMESTER : FOURTH

Sr. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME									
			HOURS / WEEK			Total HOURS/WEEK	CREDITS	THEORY					PRACTICAL				
			Lecture	Tutorial	P/D			Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks	
		Int.	Ext.														
THEORY																	
01	4CE01	Building Planning Designing & CAD	3	--	--	3	3	4	80	20	100	40	--	--	--	--	
02	4CE02	Hydrology & Water Resource Engg.	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
03	4CE03	Surveying	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
04	4CE04	Geotechnical Engineering- I	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
05	4CE05	Structural Analysis - I	3	1	--	4	4	3	80	20	100	40	--	--	--	--	
06	4ES06	**Environmental Science	2	--	--	2	2	3	80	20	100	40	-	-	-	-	
PRACTICALS / DRAWING / DESIGN																	
07	4CE07	Building Planning Designing & CAD -lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
08	4CE08	Hydrology & Water Resource Engg. – lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
09	4CE09	Surveying – lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
10	4CE10	Geotechnical Engineering- I- lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
Total			17	1	8	26	22	--	--	--	500	--	--	--	200	--	
Grand Total															700		

Note: **The Examination of Subject Environmental Science shall be conducted in IV Semester.

SEMESTER : FIFTH

Sr. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME									
			HOURS / WEEK			Total HOURS/WEEK	CREDITS	THEORY						PRACTICAL			
			Lecture	Tutorial	P/D			Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks	
													Int.	Ext.			
THEORY																	
01	5CE01	Design of Reinforced & Prestressed Concrete Structures	3	1	--	4	4	3	80	20	100	40	--	--	--	--	
02	5CE02	Surveying & Geomatics	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
03	5CE03	Numerical Methods & Computer Programming	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
04	5CE04	Professional Elective –I	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
05	5CE05	Open Elective – I	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
PRACTICALS / DRAWING / DESIGN																	
06	5CE06	Design of Reinforced & Prestressed Concrete Structures- lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
07	5CE07	Surveying & Geomatics -lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
08	5CE08	Numerical Methods & Computer Programming -lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
09	5CE09	Professional Elective –I -lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
Total			15	1	8	24	20	--	--	--	500	--	--	--	200	--	
Grand Total															700		

Note : Open Elective – I to be opted from the Courses offered by the other Engineering & Technology courses from the College / Deptts. of the University.

5CE04 & 5CE09 Prof. Elective I : (i) Highway Construction & Management (ii) Repairs & Rehabilitation of Structures (iii) Sustainable Construction Methods iv) Watershed Engg. & Management

5CE05: Open Elective I : (i) Basic to Building Construction (ii) Disaster Management (iii) Soft Skills and Interpersonal Communication

SEMESTER : SIXTH

			TEACHING SCHEME					EXAMINATION SCHEME									
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Sr. No.	Subject Code	Subject	HOURS / WEEK			THEORY							PRACTICAL			
			Lecture	Tutorial	P/D	Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks		
											Int.	Ext.				
THEORY																
01	6CE01	Design of Steel Structures	3	1	--	4	4	3	80	20	100	40	--	--	--	--
02	6CE02	Environmental Engineering - I	3	--	--	3	3	3	80	20	100	40	--	--	--	--
03	6CE03	Fluid Mechanics	3	--	--	3	3	3	80	20	100	40	--	--	--	--
04	6CE04	Prof. Elective - II	3	--	--	3	3	3	80	20	100	40	--	--	--	--
05	6CE05	Open Elective - II	3	--	--	3	3	3	80	20	100	40	--	--	--	--
PRACTICALS / DRAWING / DESIGN																
06	6CE06	Design of Steel Structures-lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25
07	6CE07	Environmental Engineering – I-lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25
08	6CE08	Fluid Mechanics-lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25
09	6CE09	Mini Project	--	--	2	2	1	--	--	--	--	--	25	25	50	25
Total			15	1	8	24	20	--	--	--	500	--	--	--	200	--
Grand Total															700	
<p>Note : i) Open Elective – II to be opted from the Courses offered by the other Engineering & Technology courses from the College / Deptts. of the University. ii) Students need to do compulsory Two (2) weeks Internship after 6th Semester and that shall be monitored by allotted Final year Project Guides.</p>																
6CE04 : PE (II) : (i) Advanced Construction Materials (ii) Geographic Information Systems & Science (iii) Masonry Structures (iv) Solid & Hazardous Waste Management (v) Traffic Engineering & Management																
6CE05 : OE (II) : (i) Environmental Management (ii) Human Resource Development & Organizational Behavior (iii) Introduction to Earthquake Engineering																

SEMESTER : SEVENTH

Sr. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME									
			HOURS / WEEK			Total HOURS/WEEK	CREDITS	THEORY					PRACTICAL				
			Lecture	Tutorial	P/D			Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks	
			Int.	Ext.													
THEORY																	
01	7CE01	Structural Analysis - II	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
02	7CE02	Geotechnical Engineering - II	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
03	7CE03	Hydraulic Engineering	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
04	7CE04	Environmental Engineering -II	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
05	7CE05	Professional Elective- III	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
PRACTICALS / DRAWING / DESIGN																	
06	7CE06	Computational Structure Analysis –lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
07	7CE07	Geotechnical Engineering – II- lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
08	7CE08	Environmental Engineering –II- lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
09	7CE09	Project & Seminar	--	--	8	8	4	--	--	--	--	--	50	--	50	25	
Total			15	0	14	29	22	--	--	--	500	--	--	--	200	--	
															Grand Total		700

7CE05 Prof Elect. III : (i) Analysis & Design of Structures for Earthquake & Wind (ii) Environmental Impact Assessment & Life Cycle (iii) Pavement Design (iv) Water Power Engineering

SEMESTER : EIGHT

Sr. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME									
			HOURS / WEEK			Total HOURS/WEEK	CREDITS	THEORY					PRACTICAL				
			Lecture	Tutorial	P/D			Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks	
													Int.	Ext.			
THEORY																	
01	8CE01	Construction Project Management	3	--		3	3	3	80	20	100	40	--	--	--	--	
02	8CE02	Construction Economics & Estimating - Costing	3	--		3	3	3	80	20	100	40	--	--	--	--	
03	8CE03	Professional Elective- IV	3	--		3	3	3	80	20	100	40	--	--	--	--	
04	8CE04	Professional Elective-V	3	--		3	3	3	80	20	100	40	--	--	--	--	
PRACTICALS / DRAWING / DESIGN																	
05	8CE05	Construction Economics & Estimating – Costing – lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
06	8CE06	Professional Elective- IV – lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
07	8CE07	Project & Seminar	--	--	12	12	6	--	--	--	--	--	75	75	150	75	
Total			12	0	16	28	20	--	--	--	400	--	--	--	250	--	
Grand Total															650		
8CE03 : Prof. Elect IV: (i) Advanced Design of Steel Structures (ii) Advanced Pre-stressed Concrete Structures (iii) Advanced Water Treatment (iv) Industrial Waste Water Treatment (v) Structural Analysis by Matrix Methods																	
8CE04 : Prof Elect V : (i) Advanced Geotechnical Engineering (ii) Advanced Structural Analysis (iii) Advanced Design of RCC Structures (iv)Advanced Waste Water Engineering (v) Construction Equipment & Machinery (vi) Finite Element Methods																	