

CIVIL ENGINEERING (B.Tech.)

COURSE CURRICULUM FOR THE NEW PROGRAMME w.e.f. 2007 BATCH

Semester I						
Course code	Course Name	Credit Structure				
		L	T	P	C	
CH 103+	Chemistry	2	1	0	6	
CS 101	Computer Programming	2	0	2	6	
HS 101	Economics	3	0	0	6	
MA 105	Calculus	3	1	0	8	
PH 103*	Electricity and Magnetism	2	1	0	6	
PH 105*	Modern Physics	2	1	0	6	
CH 117+	Chemistry Lab	0	0	3	3	
ME 113*	Workshop Practice	0.5	0	3	4	
ME 119*	Engineering Graphics and Drawing	1	0	3	5	
PH 117+	Physics Lab	0	0	3	3	
NC 101#	National Cadet Corps (NCC)	0	0	0	P/NP	
NO 101#	National Sports Organization (NSS)	0	0	0	P/NP	
NS 101#	National Service Scheme (NSO)	0	0	0	P/NP	
* Any one of these two courses and any one of these Lab courses only for D3 D4 + Only for D1 D2 # Any one of these three P/NP courses						

Semester – II						
Course Code	Course Name	Credit Structure				
MA 106 And MA 108	Linear Algebra and Ordinary Differential Equations I	L	T	P	C	
CH 103+	Chemistry	3	1	0	8	
PH 103*	Electricity and Magnetism	2	1	0	6	
PH 105*	Modern Physics	2	1	0	6	
CE 102	Engineering Mechanics	3	1	0	8	
IC 102	Data Analysis and Interpretations	2	1	0	6	
CH 117*	Chemistry Lab.	2	1	0	6	
ME 113+	Workshop Practice	0	0	3	3	
ME 119+	Engineering Graphics and Drawing	0.5	0	3	4	
PH 117*	Physics Lab.	0	1	3	5	
NC 102#	National Cadet Corps (NCC)	0	0	3	3	
NO 102#	National Sports Organization (NSS)	0	0	3	3	
NS 102#	National Service Scheme (NSO)	0	0	3	3	
* Any one of these two courses and any one of these Lab courses only for D1 D2 + Only for D3 D4 # Any one of these three P/NP courses						

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Semester III							Semester –IV						
Course code	Course Name	Credit Structure					Course Code	Course Name	Credit Structure				
		L	T	P	C				L	T	P	C	
MA 207	Differential Equations II (half Semester course)	3	1	0	4		ES 200 And HS 200	Environmental Studies: Science and Engg And Environmental Studies	3	0	0	3	
EE 101	Introduction to Electrical and Electronics Circuits	3	1	0	8		CE 222	Structural Mechanics I	2	1	0	6	
IC 211	Experimental and Measurement Lab	0	0.5	3	4		CE 206	Hydraulic Engineering	2	1	0	6	
CE 201	Solid Mechanics	3	1	0	8		CE 204	Geodesy	2	1	0	6	
CE 211	Solid Mechanics Lab	0	0	3	3		CE 218	Hydraulic Design Lab	0	1	3	5	
CE 205	Fluid Mechanics	2	1	0	6		CE 216	Geodesy Lab	0	0	3	3	
CE 213	Fluid Mechanics Lab	0	0	3	3								
	Total	11	4.5	9	36			Total	9	4	6	32	
COURSE FOR HONOURS REQUIREMENT							COURSE FOR HONOURS REQUIREMENT						
CE 463 Or	Probabilistic and Statistical Methods	2	1	0	6		CE 469 or	Advanced Solid Mechanics	2	1	0	6	
CE 465	Numerical Methods in Civil Engg	2	1	0	6		CE 408	Water Quality Modeling and Management	2	1	0	6	
COURSE FOR MINOR REQUIREMENT							COURSE FOR MINOR REQUIREMENT						
CE 102	Engineering Mechanics	2	1	0	6		CE 201 Or	Solid Mechanics	2	1	0	6	

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						CE 205	Fluid Mechanics	2	1	0	6
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Semester V						Semester –VI					
Course code	Course Name	Credit Structure				Course Code	Course Name	Credit Structure			
		L	T	P	C			L	T	P	C
HS 301/ HS 303/ HS 305/ HS 307	Philosophy/ Psychology/ Literature/ Sociology	3	0	0	6	CE 304	Soil Mechanics II	2	1	0	6
CE 303	Soil Mechanics I	2	1	0	6	CE 310	Transportation Engineering I	2	1	0	6
CE 317	Structural Mechanics II	2	1	0	6	CE 308	Design of Structures II	2	1	0	6
CE 307	Design of Structures I	3	0	0	6		Institute Elective I (from any dept./centre/school/IDP)	2	1	0	6
CE 319	Soil Mechanics Lab I	0	0	3	3	CE 314	Soil Mechanics Lab II	0	0	3	3
CE 315	Design Lab I	0	0	3	3	CE 328	Transportation Engineering Lab I	0	0	3	3
CE 321	Materials and Structures Lab	0	0	3	3	CE 318	Design Lab II	0	0	3	3
	Total	10	2	9	33		Total	8	4	9	33
COURSES FOR HONOURS REQUIREMENT						COURSES FOR HONOURS REQUIREMENT					
CE 401 or	Water Resources Engg.	2	1	0	6	CE 462 Or	Structural Dynamics	2	1	0	6
CE 426	Hydraulic Structures	2	1	0	6	CE 434	Traffic Analysis and Design	2	1	0	6
COURSES FOR MINOR REQUIREMENT						COURSES FOR MINOR REQUIREMENT					
CE 310	Transportation Engg. I	2	1	0	6	CE 201	Solid Mechanics	2	1	0	6
						CE 205	Fluid Mechanics	2	1	0	6
						CE 303	Soil Mechanics I	2	1	0	6

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Semester VII						
Course code	Course Name	Credit Structure				
		L	T	P	C	
CE 420	Transportation Engineering II	2	1	0	6	
	Elective I	2	1	0	6	
	Elective II	2	1	0	6	
	Institute Elective II (from any dept./centre/school/IDP)	2	1	0	6	
CE 412	Transportation Engineering Lab II	0	0	3	3	
	Total	8	4	3	27	
COURSES FOR HONOURS REQUIREMENT						
	One course from List “A”	2	1	0	6	
COURSES FOR MINOR REQUIREMENT						
CE 310	Transportation Engineering I	2	1	0	6	

Semester –VIII						
Course Code	Course Name	Credit Structure				
		L	T	P	C	
	Elective III	2	1	0	6	
	Elective IV	2	1	0	6	
	Elective V	2	1	0	6	
	Elective VI	2	1	0	6	
	Total	8	4	0	24	
COURSES FOR HONOURS REQUIREMENT						
	One course from list “A”	2	1	0	6	
COURSES FOR MINOR REQUIREMENT						
CE 303	Soil Mechanics I	2	1	0	6	

Electives 'A'

CE 482	Construction Management
CE 324	Engineering Law
CE 465	Numerical Methods in Civil Engineering
CE 414	Water Resources and Waste Water Engineering
CE 641	Environmental Geomechanics
CE 402	Introduction to Geotechnical Earthquake Engineering
CE 416	Pavement Analysis and Design
CE 418	Introduction to Finite Elements Methods
CE 419	Physical Modelling in Geotechnics
CE 403	Advanced Design of Structures
CE 407	Foundation Engineering
CE 410	Introduction to Offshore Engineering
CE 422	Hydraulic Structures
CE 424	Ground Water Hydrology
CE 442	Machine Foundations
CE 444	Advanced Geotechnical Analysis
CE 448	Prestressed Concrete Design
CE 463	Probabilistic and Statistical Methods in Civil Engineering
CE 472	Transportation Planning and Management
CE 478	Plastic Analysis and Design
CE 480	Computer Aided Design of Civil Engineering Systems
CE 484	Concrete Technology
CE 486	Rock Mechanics & Tunnelling Technology
CE 488	Environmental Geotechnics
CE 490	Elements of Remote Sensing
CE 492	Reinforced Earth
CE 610	Earthquake Engineering
CE 620	Advanced Finite Element Methods
CE 645	Geotechnical Centrifuge Modelling
CE 676	Water Resources System
CE 740	Traffic Engineering

CE 748	Materials, Construction and Design of Pavements
CE 746	Reinforced Earth and Geotextiles
CE 754	Economic Evaluation and Analysis of Transportation Projects
CE 632	Ground Improvement