

Department of Civil Engineering
Course Structure for B.E. (C.E.)
(Applicable to 2011 batch and onwards)

Semester I

Code	Name of subjects	L	T	P	C
	THEORY				
HU 1101	* Technical English	3	0	0	3
PH 1201	Physics	3	1	0	4
CH 1401	Engineering Chemistry	3	0	0	3
MA 1301	Engineering Mathematics	3	1	0	4
AM 1201	Engineering Mechanics	3	1	0	4
	SESSIONALS/LABORATORIES				
ME 1202	Engineering Graphics	1	0	3	3
CS 1302	Fundamentals of Unix & C Programming	1	0	3	3
PH 1202	Physics Lab	0	0	3	2
PE 1202	Workshop Practice	0	0	3	2
GA 1002	NCC/	0	0	2	1
GA 1004	NSS/				
GA 1006	PT & Games/				
GA 1008	Creative Arts				
	Total	17	3	14	29

Semester II

Code	Name of subjects	L	T	P	C
	THEORY				
MA 2301	Advanced Engineering Mathematics	3	1	0	4
EE 2201	Principles of Electrical Engineering	3	1	0	4
CH 2203	*Environmental Science	3	0	0	3
CS 2301	Fundamentals of Data Structure	3	1	0	4
EC 2001	Principles of Electronics Engineering	3	0	0	3
ME 2001	Principles of Mechanical Engineering	3	0	0	3
	SESSIONALS/LABORATORIES				
CH 1402	Chemistry Lab	0	0	3	2
AM 2202	Engineering Mechanics Lab	0	0	3	2
CS 2302	Data Structure Lab	0	0	3	2
EC 2002	Basic Electronics Engg Lab	0	0	3	2
GA2002/4/6/8	NCC/NSS/PT & Games/Creative Arts	0	0	2	1
	Total	18	3	14	30

Semester III

Code	Name of subjects	L	T	P	C
	THEORY				
CE 3001	Strength of Materials	3	0	0	3
CE 3003	Surveying-I	3	0	0	3
CE 3005	Geotechnical Engineering-I	3	0	0	3
CE 3007	Building Material & Construction	3	0	0	3

BT3021/HU4001	Biological Science/ Foreign Language	3	0	0	3
	SESSIONALS/LABORATORIES				
CE 3002	Strength of Materials Laboratory	0	0	3	2
CE 3004	Surveying-I (Sessional)	0	0	3	2
CE 3006	Engg Geology and Rock Mechanics	0	0	3	2
EE 3202	Basic Electrical Engineering Lab	0	0	3	2
GA3002/4/6/8	NCC/NSS/PT & Games/Creative Arts	0	0	2	1
	Total	15	0	14	24

Semester IV

Code	Name of subjects	L	T	P	C
	THEORY				
CE 4001	Structural Analysis-I	3	0	0	3
CE 4003	Structural Design-I	3	1	0	4
CE 4005	Transportation Engineering-I	3	0	0	3
CE 4007	Fluid Mechanics-I	3	0	0	3
HU4001/ BT3021	Foreign Language/ Biological Science	3	0	0	3
	SESSIONALS/LABORATORIES				
CE 4002	Structural Design-I (Sessional)	0	0	3	2
CE 4004	Fluid Mechanics-I Laboratory	0	0	3	2
CE 4006	Civil Engineering Drawing	0	0	3	2
GA4002/4/6/8	NCC/NSS/PT & Games/Creative Arts	0	0	2	1
	Total	15	1	11	23

Semester V

Code	Name of subjects	L	T	P	C
	THEORY				
CE 5001	Structural Analysis-II	3	0	0	3
CE 5003	Fluid Mechanics-II	3	0	0	3
CE 5005	Structural Design-II	3	1	0	4
CE 5007	Construction Planning and Management	3	0	0	3
	Breadth Subject-V	3	0	0	3
	SESSIONALS/LABORATORIES				
CE 5002	Structural Design-II (Sessional)	0	0	3	2
CE 5004	Specification, Estimation and Costing (Sessional)	0	0	3	2
CE 5006	Fluid Mechanics Laboratory-II	0	0	3	2
	Total	15	1	9	22

Semester VI

Code	Name of subjects	L	T	P	C
	THEORY				
CE 6001	Environmental Engineering	3	0	0	3
CE 6003	Transportation Engineering-II	3	0	0	3
CE 6005	Surveying-II	3	0	0	3
CE 6007	Geotechnical Engineering-II	3	0	0	3
	Breadth Subject-VI	3	0	0	3

	SESSIONALS/LABORATORIES				
CE 6002	Surveying-II (Sessional)	0	0	3	2
CE 6004	Environmental Engineering Laboratory	0	0	3	2
CE 6006	Geotechnical Engineering Laboratory	0	0	3	2
	Total	15	0	9	21

Semester VII

Code	Name of subjects	L	T	P	C
	THEORY				
	Elective-I (Departmental)	3	0	0	3
	Elective-II (Free elective from other dept)	3	0	0	3
CE 7001	Earthquake Resistant Design	3	0	0	3
CE 7003	Irrigation Engineering and Hydrology	3	0	0	3
	Breadth Subject-VII	3	0	0	3
	SESSIONALS/LABORATORIES				
CE 7002	Computer Aided Analysis & Design Lab	0	0	3	2
CE 7004	Design and Drawing of Hydraulic Structures (Sessional)	0	0	3	2
CE 7006	Concrete and Road Materials Lab	0	0	3	2
	Total	15	0	9	21

Semester VIII

Code	Name of subjects	L	T	P	C
	THEORY				
	Elective-III (Departmental)	3	0	0	3
	SESSIONALS/LABORATORIES				
CE 8002	Project / Industrial Training	0	0	6	4
CE 8004	Structural Engineering Laboratory	0	0	3	2
	Total	3	0	9	9

ELECTIVES:

Elective I Courses

Code	Name of subjects	L	T	P	C
CE 7005	Finite Element Applications in Civil Engineering	3	0	0	3
CE 7007	Computer Aided Structural Design	3	0	0	3
CE 7009	Bridge Engineering and Tunneling	3	0	0	3
CE 7011	Soil Engineering	3	0	0	3
CE 7013	Disaster Management	3	0	0	3
CE 7015	Watershed Engineering and Management	3	0	0	3
CE 7017	Concrete Structures	3	0	0	3
CE 7019	Concrete Technology and Materials	3	0	0	3

Elective III Courses

Code	Name of subjects	L	T	P	C
CE 8001	Environmental Pollution & Control	3	0	0	3
CE 8003	Harbour, Dock & Airport Engineering	3	0	0	3
CE 8005	Rock Mechanics and Applications of Civil Engineering to Surface Mining	3	0	0	3
CE 8007	Ground Water Engineering	3	0	0	3
CE 8009	Sewerage and Sewage Treatment	3	0	0	3
CE 8011	Dam and Water Power Engineering	3	0	0	3
CE 8013	Pre-Stressed Concrete	3	0	0	3
CE 8015	Construction Engineering Practices	3	0	0	3

Free Elective Courses to be floated/offered by Civil Engg Department:

Code	Name of subjects	L	T	P	C
CE 7021	Environmental Engineering	3	0	0	3
CE 7023	Geotechnical Engineering	3	0	0	3
CE 7025	Computer Oriented Numerical Methods	3	0	0	3
CE 7027	Structural Engineering	3	0	0	3
Breadth - V(Elective)					
Course Code	Subject	L	T	P	C
	Principles of Management	3	0	0	3
PE 5009	Industrial Organization and Management	3	0	0	3
	Organisation Behavior	3	0	0	3
	Art and Culture	3	0	0	3
	Sociology and Environmental Psychology	3	0	0	3
PE 5011	Project Engineering	3	0	0	3
Breadth - VI(Elective)					
	Business Economics	3	0	0	3
PE 6009	Engineering Economy	3	0	0	3
	Financial Management	3	0	0	3
Breadth - VII(Elective)					
	IPR	3	0	0	3
	Business and Industrial Laws	3	0	0	3
	Entrepreneurship	3	0	0	3
	Professional ethics	3	0	0	3