

Model Plan: Civil Engineering

For Batch 2016 onward

SEMESTER-I

Course No.	Course Title	Course Type	L	T	P	C	Remarks
MA 101	Mathematics – I	SC	3	1	0	4	
ME 101	Engineering Mechanics	ESC	3	0	0	3	
CH 101	Engineering Chemistry	SC	3	1	0	4	
CE 101	Engineering Drawing	ESC	1	0	0	1	
HS 101	English Language Skills	HSC	2	0	0	2	
EE 101	Basic Electrical Engineering	ESC	3	0	0	3	
CH 151	Engineering Chemistry Lab	SC	0	0	2	1	
CE 151	Engineering Drawing Lab	ESC	0	0	4	2	
HS 151	English Language Skills Lab	HSC	0	0	2	1	
EE 151	Basic Electrical Engineering Lab	ESC	0	0	2	1	
			15	2	10		
			27			22	

SEMESTER II

Course No.	Course Title	Course Type	L	T	P	Cr	Remarks
MA 102	Mathematics – II	SC	3	1	0	4	
EC 101	Basic Electronics	ESC	3	0	0	3	
PH 101	Engineering Physics	SC	3	1	0	4	
ME 102	Engineering Thermodynamics	ESC	2	0	0	2	
ES 101	Environmental Science	SC	2	0	0	2	
CS 101	Computer Programming	ESC	2	1	0	3	
ME 103	Workshop Practice-I	ESC	0	0	4	2	
EC151	Basic Electronics Lab	ESC	0	0	2	1	
PH151	Engineering Physics Lab	SC	0	0	2	1	
CS151	Computer Programming Lab	ESC	0	0	2	1	
			15	2	10		
		Total	27			23	

Sc. Core (SC); Sc. Electives (SE); Engg. Sc. Core (ESC); HSS Core (HSC); HSS Elective (HSE); Discipline Core (DC); Discipline Elective (DE); Open Elective (OE); Project Work (PW)

Semester : III

Course No.	Course Title	Course Type	L	T	P	C	Remarks
MA201	Mathematics III	SC	3	0	0	3	
CE201	Solid Mechanics	DC	3	0	0	3	
CE202	Surveying	DC	3	0	0	3	
CE203	Civil Engineering Materials	DC	2	0	0	2	
CE204	Environmental Engineering - I	DC	3	0	0	3	
CE205	Structural Analysis - I	DC	3	0	0	3	
PH201	Science Elective (Physics of materials)	SE	3	0	0	3	
CE211	Surveying Lab	DC	0	0	4	2	
CE212	Civil Engineering Materials-Lab	DC	0	0	2	1	
CE213	Environmental Engineering Lab	DC	0	0	2	1	
			20	0	8		
		Total		28		24	

Sc. Core (SC);Sc. Electives (SE); Engg. Sc. Core (ESC); HSS Core (HSC); HSS Elective (HSE); Discipline Core (DC); Discipline Elective (DE); Open Elective (OE); Project Work (PW)

Semester : IV

Course No.	Course Title	Course Type	L	T	P	Cr
MA203	Maths-V (Scientific Computing)	SC	3	0	0	3
CE206	Geotechnical Engineering – I	DC	3	0	0	3
CE207	Environmental Engineering – II	DC	3	0	0	3
CE208	Structural Analysis – II	DC	3	0	0	3
CE209	Fluid Mechanics	DC	3	0	0	3
XXnnn	Open Elective-I	OE	3	0	2	4
MA210	Mathematics laboratory	SC	0	0	4	2
CE214	Geotechnical Engineering Lab-I	DC	0	0	2	1
CE215	Fluid Mechanic lab	DC	0	0	2	1
			18	0	10	
		Total		28		23

Sc. Core (SC);Sc. Electives (SE); Engg. Sc. Core (ESC); HSS Core (HSC); HSS Elective (HSE); Discipline Core (DC); Discipline Elective (DE); Open Elective (OE); Project Work (PW)

Semester: V

Course No.	Course Title	Course Type	L	T	P	C	Remarks
CE301	Reinforced Concrete Design	DC	3	1	0	4	
CE302	Geotechnical Engineering - II	DC	3	0	0	3	
CE303	Transportation Engineering - I	DC	3	0	0	3	
CE334	<i>Departmental Elective-I-Engineering Geology</i>	DE	3	0	0	3	
CE333	<i>Open Elective-II-Computational methods in civil Engineering</i>	OE	3	1	0	4	
HS 302	Accounting And Financial Methods	HSS	3	0	0	3	
CE304	Hydrology and Water Resources Engineering	DC	3	0	0	3	
CE311	<i>Transportation Engineering Lab-I</i>	DC	0	0	2	1	
CE312	<i>Geotechnical Engineering Lab-II</i>	DC	0	0	2	1	
			21	2	4		
		Total		27		25	

Sc. Core (SC); Sc. Electives (SE); Engg. Sc. Core (ESC); HSS Core (HSC); HSS Elective (HSE); Discipline Core (DC); Discipline Elective (DE); Open Elective (OE); Project Work (PW)

Semester: VI

Course Code	Course Name	Course Type	L	T	P	C	Remarks
CE 305	Design of steel structures	DC	3	1	0	4	
CE 306	Estimating Costing & Evaluation	DC	3	0	0	3	
CE 307	Transportation Engineering Lab-II	DC	3	0	0	3	
CE 332	Departmental Elective-II- Hydraulics and Hydraulic Structures	DE	3	0	0	3	
CE 325	Open Elective-III Geotechnical Earthquake Engineering	OE	3	0	0	3	
CE 329	Open Elective-IV Pre stressed Concrete and Industrial structure	OE	3	0	0	3	
HS 301	Accounting and financial methods	HSS	3	0	0	3	
CE 313	Transportation Engineering II (Lab)	DC	0	0	2	1	
CE 314	Hydraulics and Hydraulic Structure (Lab)	DE	0	0	2	1	
			21	1	4		
		Total		26		24	

Sc. Core (SC); Sc. Electives (SE); Engg. Sc. Core (ESC); HSS Core (HSC); HSS Elective (HSE); Discipline Core (DC); Discipline Elective (DE); Open Elective (OE); Project Work (PW)

Semester: VII

Course Code	Course Name	L	T	P	C	Pre-requisite (if any)
CE401	Projectworks-I	0	0	8	4	none
CE430	Departmental Elective-III- Irrigation Engineering	3	0	0	3	CE304, CE332
CE435	Departmental Elective-IV- Fluid Dynamics and Fluid machines	3	1	0	4	CE 209
HS 401	Professional Ethics	2	0	0	2	
CE428	Open Elective-V: CE – 428 - Finite Element Methods in Engineering	3	0	0	3	CE201, CE205, CE208
HS402	Introduction to Economics	3	0	0	3	
Total						

Semester: VIII**Courses to be offered:**

Course No.	Course Title	Course Type	Pre-Requisite Sub (PRS)	L	T	P	Cr
CE402	Project Works-II	PW		0	0	16	8
CE433	<i>Open Elective-VI Optimization Techniques</i>	OE	MA 203	3	0	0	3
CE432	<i>Departmental Elective-V Structural dynamics</i>	DE	CE 205, CE 208	3	1	0	4
CE431	<i>Departmental Elective-VI Ground Improvement Techniques</i>	DE	CE 206, CE 302	3	1	0	4
				9	2	16	
Total					27		19