

Revised Course Structure of B. Tech (Civil Engineering) programme

School of CIVIL Engineering Program Structure of B.Tech.(Civil) Four Year Full Time Degree (Applicable for Entry Batch 2019)

1 st Semester							2 nd Semester						
S No	Course Code	Course Title	L	T	S/P	C	S No	Course Code	Course Title	L	T	S / P	C
1	MTL 1025	Engineering Mathematics-I	3	0	0	3	1	MTL 1026	Engineering Mathematics-II	3	0	0	3
2	CEL1001	Introduction to Civil Engineering	1	0	0	NC	2	CEL 1011	Applied Mechanics	3	1	0	4
3	LNL 1411	Professional Communication	2	0	2	3	3	CSL 1028	Programming using Python	2	0	4	4
4	PHL 1012	Engineering Physics	3	0	2	4	4	PCL 1067	Discourse on Human Virtues	3	0	0	3
5	EEL 1006	Fundamentals of Electrical Engineering	3	0	2	4	5	CEL 1012	Building Materials and Construction	3	0	2	4
6	MEL 1039	Engineering Graphics with CAD	1	0	2	2	6	MEP 1114	Engineering Workshop	0	0	2	1
7	CSL 1022	Introduction to C Programming	3	0	2	4	7	LNP 1142	Language Lab-I	0	0	2	1
8	PCN1010	NSS	0	0	0	NC	8						
9		Induction Program				NC	9						
Total Credits						20	Total Credits						20
3 rd Semester							4 th Semester						
S. No.	Course Code	Course Title	L	T	S/P	C	S No	Course Code	Course Title	L	T	S / P	C
1	CEL 2021	Strength of Materials	3	0	0	3	1	CEL 2023	Structural Analysis-I	3	1	0	4
2	CEL 2022	Concrete Technology	3	0	0	3	2	CEL 2031	Design of Concrete Structures-I	3	1	0	4
3	CEL 2041	Fluid Mechanics -I	3	*0	0	3	3	CEL 2042	Fluid Mechanics-II	3	1	0	4
4	PCL2042	Introduction to Logic	3	0	0	3	4	CEL 2081	Transportation Engineering-I	3	0	0	3
5	XXXX	Open Elective-I / MOOC	3	0	0	3	5	CEL 2051	Surveying for Civil Engineering	2	1	0	3
6	CEC 2071	Summer Internship/ Training -I				1	6	CEL 2062	Geotechnical Engineering-II	3	0	0	3
7	CEL2061	Geotechnical Engineering-I	3	0	0	3	7	MTL 2023	Integral Transforms & Complex Analysis	3	0	0	NC
8	CEP 2021	Strength of Materials Lab	0	0	2	1	8	CEP 2051	Surveying for Civil Engineering Lab	0	0	2	1
9	CEP 2022	Concrete Technology Lab	0	0	2	1	9	CEP 2081	Transportation Engineering-I Lab	0	0	2	1
10	CEP 2041	Fluid Mechanics -I Lab	0	0	2	1	10	CEP 2062	Geotechnical Engineering-II Lab	0	0	2	1
Total Credits						22	Total Credits						24
5 th Semester							6 th Semester						
S No.	Course Code	Course Title	L	T	S/P	C	S No	Course Code	Course Title	L	T	S / P	C
1	CEL 3024	Structural Analysis-II	3	0	0	3	1	CEL 3033	Design of Steel Structures-I	3	0	0	3
2	CEL 3032	Design of Concrete Structures-II	2	1	0	3	2	CEL 3043	Water Resources Engineering	3	0	0	3
3	CEL 3091	Environmental Engineering -I	3	0	0	3	3	CEL 3092	Environmental Engineering-II	3	0	0	3
4	CEL 3082	Transportation Engineering-II	3	0	0	3	4	CEL 3063	Rock Mechanics & Tunneling Technology	3	0	0	3
5	CEL 3101	Construction Management Estimating & Costing	3	0	0	3	5	XXXX	Open Elective-II	3	0	0	3
6	CEE 3XXX	School Elective-I	3	0	0	3	6	CEE 3XXX	School Elective-II	3	0	0	3
7	PCN3079	Constitution of India	1	0	0	0	7	CEP 3025	Computer Aided Design & Drawing	0	0	2	1
8	CEC 3072	Summer Internship/Training-II				1	8	CEP 3043	Water Resources Engineering Lab	0	0	2	1
9	CEP 3091	Environmental Engineering -I Lab	0	0	2	1	9	CEP 3092	Environmental Engineering-II Lab	0	0	2	1
10	CEP 3024	Structural Analysis-II Lab	0	0	2	1	Total Credits						21
Total Credits						21	7 th Semester						
S No.	Course Code	Course Title	L	T	S/P	C	S No	Course Code	Course Title	L	T	S / P	C
1	CEL 4034	Design of Steel Structures-II	3	0	0	3	1	CED 4112	Major Project (**)				10
2	CEE 4XXX	School Elective-III	3	0	0	3	2	CEE XXXX	School Elective-IV (**)	3	0	0	0
3	XXXX	Open Elective-III	3	0	0	3	3	XXXX	Open Elective-IV (**)	3	0	0	0
4	CEE 4XXX	School Elective-III	3	0	0	3							
5	CED 4111	Minor Project				4							
6	BUL 4011	Entrepreneurship Management	3	0	0	3							
7	CEC 4073	Summer Internship/Training-III				2							
9	CEP 4034	Design of Steel Structures-II Lab	0	0	2	1							
Total Credits						22	Total Credits						10
Total Credits						22	Total Credits						10

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LIST OF SCHOOL ELECTIVES						
S. No.	Course Code	Course Title	L	T	S	C
A	CEE 3111	h. Advance Construction practice				
	CEE 3064	i. Advance Foundation Engineering				
	CEE 3052	j. Remote Sensing and GIS				
	CEE 3044	k. Advance Hydraulic				
	CEE 3113	l. Introduction to Engineering Seismology	3	0	0	3
	CEE 3112	m. Glass in Buildings : Design and applications				
	CEE 3083	n. Introduction to Multimodal Urban Transportation Systems (MUTS)				
B	CEE 3027	c. Advanced Structural Analysis				
	CEE 3065	d. Engineering Geology				
	CEE 3093	c. Air and Noise pollution control	3	0	0	3
	CEE 3102	d. Construction Equipment's & Automation				
C	CEE 4035	e. Earthquake Resistant Design				
	CEE 4094	f. Solid and hazardous waste management	3	0	0	3
	CEE 4083	g. High speed railway Engineering				
	CEE 4066	h. Reinforced Earth and Geotextiles				
D	CEE 4036	e. Pre stressed Concrete				
	CEE 4045	f. Industrial waste water treatment and management	3	0	0	NC
	CEE 4037	g. Bridge Engineering				
	CEE 4067	h. Earth and Earth Retaining Structures				

Note – In addition to the above mentioned courses MOOC (SYAYAM/NPTEL) may also be offered as School or Open Elective, as decided by AAC of School from time to time

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