

Course Structure: B.Tech. (Civil Engineering)
Valid for students admitted from year 2023 onwards

Semester 3:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	BS	AMS2112	Applied Mathematics - III	2	1	0	3	15	25	60	100
2	ESA	CEA2142	Engineering Geology	3	0	0	3	15	25	60	100
3	ESA	CEA2932	Engineering Geology Lab & Camp	0	0	3	1.5	60		40	100
4	PC	CEC2122	Soil Mechanics	4	0	0	4	15	25	60	100
5	PC	CEC2252	Construction Materials & Practices	4	0	0	4	15	25	60	100
6	PC	CEC2912	Civil Engineering Material Lab	0	0	3	1.5	60		40	100
7	PC	CEC2922	Soil Mechanics Lab	0	0	3	1.5	60		40	100
8	HM	CEH2132	Quantity Survey, Drawing & Management	4	0	0	4	15	25	60	100
9	AU	CEU2162	Disaster Preparedness and Mitigation	3	0	0	0	40		60	100

TOTAL CREDITS: 22.5

Semester 4:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	BS	AMS2122	Applied Mathematics-IV	2	1	0	3	15	25	60	100
2	ESA	CEA2162	Environmental Engineering	4	0	0	4	15	25	60	100
3	PC	CEC2132	Fluid Mechanics	3	1	0	3	15	25	60	100
4	PC	CEC2182	Surveying	3	1	0	4	15	25	60	100
5	PC	CEC2192	Hydrology	3	1	0	4	15	25	60	100
6	PC	CEC2202	Structural Mechanics	3	1	0	4	15	25	60	100
7	PC	CEC2942	Structural Mechanics Lab	0	0	3	1.5	60		40	100
8	PC	CEC2952	Surveying Lab	0	0	3	1.5	60		40	100
9	PC	CEC2962	Fluid Mechanics Lab	0	0	3	1.5	60		40	100

TOTAL CREDITS: 26.5

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Semester 5:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	PC	CEC3112	Design of Concrete Structures-I	3	1	0	4	15	25	60	100
2	PC	CEC3132	Engineering Hydraulics	3	1	0	4	15	25	60	100
3	PC	CEC3152	Structural Analysis-I	3	1	0	4	15	25	60	100
4	PC	CEC3222	Waste Management	4	0	0	4	15	25	60	100
5	PC	CEC3242	Foundation Engineering	4	0	0	3	15	25	60	100
6	PC	CEC3922	Environmental Engineering Lab	0	0	3	1.5	60		40	100
7	PC	CEC3932	Hydraulics Lab	0	0	3	1.5	60		40	100
8	PC	CEC3942	Structure Lab	0	0	3	1.5	60		40	100

TOTAL CREDITS: 23.5

Semester 6:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	PC	CEC3162	Design of Concrete Structure-II	3	1	0	4	15	25	60	100
2	PC	CEC3172	Transportation Engineering	3	1	0	4	15	25	60	100
3	PC	CEC3182	Design of Steel Structures	3	1	0	4	15	25	60	100
4	PC	CEC3202	Structural Analysis-II	3	1	0	4	15	25	60	100
5	PC	CEC3392	Open Channel Hydraulics	3	1	0	4	15	25	60	100
6	PC	CEC3812	Survey Camp	0	0	2	1	60		40	100
7	PC	CEC3952	CAD Lab	0	0	3	1.5	60		40	100
8	PC	CEC3962	Transportation Engineering Lab	0	0	2	1	60		40	100
9	OE		Open Elective-1				3	15	25	60	100

TOTAL CREDITS: 26.5

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Semester 7:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	PC	CEC4132	Irrigation Engineering	3	1	0	4	15	25	60	100
2	PC	CEC4222	Elements of Earthquake & Wind Engineering	3	0	0	3	15	25	60	100
3	HM	CEH4112	Construction Planning & Management	3	0	0	3	15	25	60	100
4	PSI	CEP4982	Project Phase I	0	0	3	4	60		40	100
5	DE		Departmental Elective-1				3	15	25	60	100
6	DE		Departmental Elective-2				3	15	25	60	100
7	DE		Departmental Elective-3				3	15	25	60	100

TOTAL CREDITS: 23

Semester 8:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	PSI	CEP4802	Industrial Training/Internship				2			100	100
2	PSI	CEP4992	Project Phase II	0	0	3	4	60		40	100
3	DE		Departmental Elective-4				3	15	25	60	100
4	DE		Departmental Elective-5				3	15	25	60	100
5	OE		Open Elective-2				3	15	25	60	100

TOTAL CREDITS: 15

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List of Departmental Elective (DE) Courses:

S.No.	Crs. No.	Course title	S.No.	Crs. No.	Course title
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SUMMARY:

Catagory Code	Category Name	II-IV Year Credits	First Year Credits	Total Credits
DC	Departmental Core	84.5	0	84.5
DE	Departmental Elective	15	0	15
BS	Basic Sciences	6	19	25
ESA	Engg. Science and Arts	8.5	19	27.5
OE	Open Elective	6	0	6
HM	Humanities	7	5	12
PSI	Project, Seminar, Internship	10	0	10
TOTAL		137	43	180