### **Semester-I**

S.No.	Course Code	Course Name	Category	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	ES103M/ EA101M	Introduction to Programming/ Engineering Drawing	BET/ BES	2-0-3-4 1-0-3-3	ES1101/EA1101	14 4
2.	CY101L/ CY102L	Physical and Theoretical Chemistry/ Organic and Inorganic Chemistry	SCY	2-1-0-3	CY1101/ CY1202	4 4
3.	ES101M	Concepts in Engineering and Design	BET	1-0-2-2	ID1101	4
4.	MA101L	Calculus	SMA	3-1-0-4	MA1101	4
5.	PH101L	Introduction to Classical Mechanics	SPH	2-1-0-3	PH1101	4
6.	PH103P/ CY103P	Physics Laboratory/ Chemistry Laboratory	SPH/ SCY	0-0-3-2	PH1103/ CY1204	4 4
7.	EA101P	Workshop-I	BES	0-0-3-2	EA1103	4
8.	HS10XN	Language Course (Pass/Fail)	HPF	2-0-0-2	HS110X	
	Total Credits				22/21	

#### **Approved Language Courses**

Course Code	Course Name	Category	L-T-P-C	Course Code (prior to Jul 2022)	Senate	
HS101N	Proficiency in English			HS1101	4	
HS102N	Basic Course in German			HS1103	6	
HS103N	Basic Course in Japanese	HPF	2-0-0-2	HS1105	6	
HS104N	Basic Course in Sanskrit				HS1107	6
HS105N	Basic Course in Spanish Language			HS1109	9	

## **Semester-II**

S.No.	Course Code	Course Name	Category	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	ES103M/	Introduction to Programming/	BET/	2-0-3-4	ES1101/	14
1.	EA101M	Engineering Drawing	BES	1-0-3-3	EA1101	4
2.	CY101L/	Physical and Theoretical Chemistry/	SCY	2-1-0-3	CY1101/	4
۷.	CY102L	Organic and Inorganic Chemistry	SCY 2-1-0	2-1-0-3	CY1202	4
3.	ES201L	Engineering Mechanics	BET	3-1-0-4	ES2101	4
4.	MA102L	Differential Equations and Matrices	SMA	3-1-0-4	MA1202	4
5.	PH102L	Introduction to Electrodynamics and Quantum Mechanics	SPH	2-1-0-3	PH1202	4
6.	PH103P/	Physics Laboratory/	SPH/SCY	0-0-3-2	PH1103/	4
0.	CY103P	Chemistry Laboratory	SPH/SC I	0-0-3-2	CY1204	4
7.	EA102P	Workshop-II	BES	0-0-3-2	EA1202	4
		<b>Total Credits</b>		21/22		

## **Semester-III**

S. No.	Course Code	Course Name	Category	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	CE201L	Strength of Materials	PMT	3-1-0-4	CE2101	8
2.	CE203L	Surveying	PMT	3-0-0-3	CE2103	8
3.	CE202L	Civil Engineering Materials and Construction	PMT	3-0-0-3	CE2105	8
4.	CE203P	Surveying Practical	PML	0-0-3-2	CE2191	8
5.	ES102L	Basic Electrical Engineering	BET	3-1-0-4	ES1201	8
6.	ES202L/ ES203L	Ecology and Environment/ Life Sciences	BET/ SLS	2-0-0-2 2-0-0-2	ES2103/ BS2101	8 9
7.	HSE1	Humanities Elective-1	HSS	3-0-0-3		
8.	MAE1	Mathematics Elective-1	SMA	3-0-0-3		
	Total Credits				24	

## **Semester-IV**

S.No.	Course Code	Course Name	Category	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	ES202L/ ES203L	Ecology and Environment/ Life Sciences	BET/ SLS	2-0-0-2 2-0-0-2	ES2103/ BS2101	8
2.	CE206L	Structural Analysis	PMT	3-1-0-4	CE2202	8
3.	CE204L	Geology and Soil Mechanics	PMT	3-1-0-4	CE2204	8
4.	CE207L	Fluid Mechanics and Hydraulics	PMT	3-1-0-4	CE2206	8
5.	CE206P	Structural Engineering Laboratory	PML	0-0-3-2	CE2292	8
6.	CE205P	Building Drawing	PML	0-0-3-2	CE2294	8
7.	HSE2	Humanities Elective-2	HSS	3-0-0-3		
8.	MAE2	Mathematics Elective-2	SMA	3-0-0-3		
	Total Credits				24	

## **Semester-V**

S. No.	Course Code	Course Name	Category	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	CE301L	Basic Structural Steel Design	PMT	3-1-0-4	CE3101	8
2.	CE302L	Water Resources Engineering	PMT	3-1-0-4	CE3103	8
3.	CE303L	Environmental Engineering	PMT	3-1-0-4	CE3105	8
4.	CE305P	Hydraulics and Environmental Engineering Laboratory	PML	0-0-3-2	CE3191	8
5.	CE304P	Building Materials Laboratory	PML	0-0-3-2	CE3193	8
6.	FRE1	Free Elective 1	FRE	3-0-0-3		
7.	FRE2	Free Elective 2	FRE	3-0-0-3		
	Total Credits				22	

## **Semester-VI**

S.No.	Course Code	Course Name	Category	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	CE306L	Basic Reinforced Concrete Design	PMT	3-1-0-4	CE3202	8
2.	CE307L	Geotechnical Engineering	PMT	3-1-0-4	CE3204	8
3.	CE308L	Transportation Engineering	PMT	3-1-0-4	CE3206	8
4.	CE308P	Transportation Engineering Laboratory	PML	0-0-3-2	CE3292	8
5.	DPE1	Department Elective-1	PMT	3-0-0-3		
6.	HSE3	Humanities Elective-3	HSS	3-0-0-3		
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7.	CE391G	Industrial/Research Internship	PIT	2	IT3202	1
	Total Credits				22	

## **Semester-VII**

S. No.	Course Code	Course Name	Category	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	CE401L	Estimation and Construction Management	PMT	3-1-0-4	CE4101	8
2.	CE402L	Functional Design of Buildings	PMT	2-0-0-2	CE4103	8
3.	CE514L	Advanced Design of Concrete Structures	PMT	3-0-0-3	CE5108	8
4.	CE539L	Advanced Mechanics of Solids	PMT	3-0-0-3	CE5103	2
5.	DPE2	Department Elective-2	PMT	3-0-0-3		
6.	DPE3	Department Elective-3	PMT	3-0-0-3		
7.	CE493N	Industrial Lecture	PIL	1-0-0-1	IL4101	1
	Total Credits				19	

## **Semester-VIII**

S. No.	Course Code	Course Name	Category	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	ME502L	Finite Element Method in Engineering Mechanics	PMT	3-0-0-3	ME5102	2
2.	CE515L	Advanced Design of Metal Structures	PMT	3-0-0-3	CE5204	8
3.	DPE4	Department Elective-4	PMT	3-0-0-3		
4.	DPE5	Department Elective-5	PMT	3-0-0-3		
5.	FRE3	Free Elective-3	FRE	3-0-0-3		
6.	CE516P	Advanced Structural Engineering Laboratory	PML	0-0-3-2	CE5193	8
7.	HS401L	Professional Ethics	HPE	2-0-0-2	HS4202	7
	Total Credits				19	

## **Semester-IX**

S. No.	Course Code	Course Name	Category	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	CE693G	Seminar	PMT	1	CE6110	4
2.	CE691G	Project Phase-I	PMP	10	CE6150	4
3.	FRE4	Free Elective-4	FRE	3-0-0-3		
	Total Credits				14	

## **Semester-X**

S. No.	Course Code	Course Name	Category	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	CE692G	Project Phase-II	PMP	15	CE6250	4
2.	FRE5	Free Elective-5	FRE	3-0-0-3		
	Total Credits				18	

**TOTAL CREDITS: 205**