

BE (Civil Engineering) Curriculum

Minimum Credits to be Earned: 165

Semester I								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
THEORY								
1	23SEN101	Heritage of Tamils	HS	1	1	0	0	1
2	23SEN103	Technical English – I	HS	4	3	1	0	4
3	23SMA101	Matrices and Calculus	BS	4	3	1	0	4
4	23SPH111	Physics for Civil Engineering	BS	3	3	0	0	3
5	23ADR104	Problem Solving and Python Programming	ES	3	3	0	0	3
LABORATORY								
6	23CER101	Engineering Practices Laboratory for Civil Engineers	ES	2	0	0	2	1
7	23CER102	Engineering Drawing Laboratory	ES	2	0	0	2	1
8	23ADR111	Problem Solving and Python Programming Laboratory	ES	2	0	0	2	1
TOTAL				21	13	2	6	18

Semester II								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
THEORY								
1	23SEN202	Tamils and Technology	HS	1	1	0	0	1
2	23SEN205	Technical English – II	HS	3	3	0	0	3
3	23SMA204	Transforms and its Applications	BS	4	3	1	0	4
4	23SCH219	Chemistry for Civil Engineering	BS	3	3	0	0	3
5	23CER203	Engineering Mechanics for Civil Engineers	ES	4	3	1	0	4
6	23CER212	Construction Techniques and Management	PC	3	3	0	0	3
LABORATORY								
7	23SEN217	Communication Skills Laboratory	HS	2	0	0	2	1
8	23SPH122	Physical Sciences Laboratory	BS	2	0	0	2	1
9	23CER205	Computer Applications in Civil Engineering Lab - I	ES	2	0	0	2	1
TOTAL				24	16	2	6	21

Semester III								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
THEORY								
1	23SMA307	Numerical Methods	BS	4	3	1	0	4
2	23CER306	Mechanics of Solids	ES	4	3	1	0	4
3	23CER307	Mechanics of Fluids	ES	4	3	1	0	4
4	23CER313	Concrete Technology	PC	3	3	0	0	3
5	23CER314	Surveying	PC	3	3	0	0	3
6	23SMX301	Indian Constitution	MC	1	1	0	0	-
LABORATORY								
7	23CER308	Mechanics of Solids Laboratory	ES	2	0	0	2	1
8	23CER309	Computer Applications in Civil Engineering Lab - II	ES	2	0	0	2	1
9	23CER315	Concrete Technology Laboratory	PC	2	0	0	2	1
10	23CER316	Surveying Laboratory	PC	2	0	0	2	1
11	23EXC301	Life Skills – I	EEC	2	0	0	2	1
TOTAL				29	16	3	10	23

Semester IV								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
THEORY								
1	23CER410	Building Bylaws	ES	3	3	0	0	3
2	23CER417	Hydraulics	PC	3	3	0	0	3
3	23CER418	Design of Reinforced Concrete Structures	PC	3	3	0	0	3
4	23CER419	Theory of Structures	PC	3	3	0	0	3
5	23CER420	Environmental Engineering - I	PC	4	4	0	0	4
6	23CER421	Applications of Artificial Intelligence in Civil Engineering	PC	3	3	0	0	3
7	23SMX402	Essence of Indian Traditional Knowledge	MC	1	1	0	0	-
8	23EXC411	Design Thinking	EEC	1	1	0	0	1
LABORATORY								
9	23CER422	Hydraulics Laboratory	PC	2	0	0	2	1
10	23CER423	Theory of Structures Laboratory	PC	2	0	0	2	1
11	23EXC402	Life Skills – II	EEC	2	0	0	2	1
12	23EXC413	Digital Surveying Laboratory	EEC	2	0	0	2	1
TOTAL				29	21	0	8	24

Semester V								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
THEORY								
1	23CER524	Highway and Railway Engineering	PC	4	4	0	0	4
2	23CER525	Soil Mechanics	PC	3	3	0	0	3
3	23CER526	Environmental Engineering - II	PC	3	3	0	0	3
4	23CER527	BIM and 3D Printing in Constructions	PC	3	3	0	0	3
5	23XXXXXX	Open Elective – I	OE	3	3	0	0	3
LABORATORY								
6	23CER528	Architectural Studio Laboratory	PC	2	0	0	2	1
7	23CER529	Soil Mechanics Laboratory	PC	2	0	0	2	1
8	23CER530	Environmental Engineering Laboratory	PC	2	0	0	2	1
9	23EXC503	Life Skills – III	EEC	2	0	0	2	1
10	23EXCXXX	Internship – I/Mini Project - I	EEC	2	0	0	2	1
TOTAL				28	16	0	12	22

Semester VI								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
THEORY								
1	23CER631	Estimation and Costing	PC	3	3	0	0	3
2	23CER632	Design of Steel Structures	PC	3	3	0	0	3
3	23CER633	Water Resources and Irrigation Engineering	PC	3	3	0	0	3
4	23CEPXXX	Professional Elective – I	PE	3	3	0	0	3
5	23CEPXXX	Professional Elective – II	PE	3	3	0	0	3
6	23XXXXXX	Open Elective – II	OE	3	3	0	0	3
7	23XXXXXX	Open Elective – III	OE	3	3	0	0	3
LABORATORY								
8	23CER634	Quantity Surveying and Costing Laboratory	PC	2	0	0	2	1
9	23EXCXXX	Internship – II/Mini Project - II	EEC	2	0	0	2	1
10	23EXC614	Tekla Structures	EEC	2	0	0	2	1
TOTAL				27	21	0	6	24

Semester VII								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
THEORY								
1	23SGE713	Principles of Management and Engineering Ethics	HS	3	3	0	0	3
2	23CEPXXX	Professional Elective – III	PE	3	3	0	0	3
3	23CEPXXX	Professional Elective – IV	PE	3	3	0	0	3
4	23CEPXXX	Professional Elective – V	PE	3	3	0	0	3
5	23CEPXXX	Professional Elective – VI	PE	3	3	0	0	3
6	23XXXXXX	Open Elective – IV	OE	3	3	0	0	3
7	23XXXXXX	Open Elective – V	OE	3	3	0	0	3
LABORATORY								
8	23EXC709	Project Work – Phase I	EEC	4	0	0	4	2
9	23EXC715	Project Management Laboratory	EEC	2	0	0	2	1
TOTAL				27	21	0	6	24

Semester VIII								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
THEORY								
1	23EXC810	Project Work – Phase II	EEC	20	0	0	20	10
TOTAL				20	0	0	20	10

Total Credits	166
----------------------	------------