

B.Tech Curriculum for Civil Engineering

SEMESTER - I

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Calculus and Ordinary Differential Equations	Mathematics	MA1L003	3-1-0	4	4
Environmental Science, Technology and Management	Earth, Ocean and Climate Science	ID2L003	2-0-0	2	2
English for learning and Communication	Humanities, Social Science and Management	HS1L011	2-0-2	3	4
Physics/Chemistry (Students can choose only one theory)	Physics/Chemistry	PH1L001/ CY1L001	3-0-0	3	3
Physics/Chemistry Laboratory (Theory corresponding one lab)	Physics/Chemistry	PH1P001/ CY1P001	0-0-3	2	3
Engineering Mechanics	Mechanical Sciences	ME1L001	3-1-0	4	4
Introduction to Manufacturing Process	Mechanical Sciences	ME1P001	0-0-3	2	3
Extra Academic Activity-1		ID1T001	0-0-3	1	-
Total				21	23

SEMESTER - II

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Linear Algebra and Complex Analysis	Mathematics	MA1L004	3-1-0	4	4
Introduction to Bio Science and Technology	Chemistry	ID2L002	2-0-0	2	2
Happiness and life skill	Humanities, Social Science and Management	ID1LXXX	1-0-0	1	1
Introduction to Bharatiya Knowledge Traditions	Humanities, Social Science and Management	ID1LXXX	2-0-0	2	2
Programming in C	Computer Science Engineering	CS1L002	2-0-2	3	4
Basic Electrical and Electronics Engineering	Electrical Engineering	EE1L002	3-1-0	4	4
Basic Electrical and Electronics Engineering Laboratory	Electrical Engineering	EE1P002	0-0-3	2	3
Engineering Drawing and Graphics	Infrastructure	CE1P001	1-0-3	3	4
Extra Academic Activity-2		ID1T002	0-0-3	1	-
Total				22	24

SEMESTER-III

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
	HSS-2		3-0-0	3	3
Mechanics of Solids	DC1	CE2L101	3-0-0	3	3
Hydraulics	DC2	CE2L102	3-0-0	3	3
Geology and Soil Characterization	DC3	CE2L103	3-0-0	3	3
Introduction to Transportation Engineering	DC4	CE2L104	3-0-0	3	3
Geomatics Practices	SDC 1	CE2L105	2-0-2	3	4
Hydraulics Laboratory	Lab-1	CE2P101	0-0-3	2	3
Total				20	22

SEMESTER-IV					
Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
	HSS-3		3-0-0	3	3
Structural Analysis-I	DC5	CE2L106	3-0-0	3	3
Water Resources Engineering	DC6	CE3L107	3-0-0	3	3
Soil Mechanics	DC7	CE3L108	3-0-0	3	3
Construction Materials	SDC 2	CE2L109	2-0-2	3	4
OE-1	OE	OE	3-0-0	3	3
Geotechnical Engineering Laboratory	Lab-2	CE2P102	0-0-3	2	3
Transportation Engineering Laboratory	Lab-3	CE2P103	0-0-3	2	3
Total				22	25
SEMESTER-V					
Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
	HSS-4	HSS	3-0-0	3	3
Structural Analysis-II	DC8	CE3L101	3-0-0	3	3
Design of Reinforced Concrete Structures	DC9	CE3L102	3-0-0	3	3
Environmental Engineering I	DC10	CE3L103	3-0-0	3	3
OE -2	OE	OE	3-0-0	3	3
Construction Project Management and BIM	SDC 3	CE3L104	2-0-2	3	4
Environmental Engineering Laboratory	Lab-4	CE3P101	0-0-3	2	3
Structural Engineering Laboratory	Lab-5	CE3P102	0-0-3	2	3
Total				22	25
SEMESTER-VI					
Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Design of Steel Structures	DC11	CE3L105	3-0-0	3	3
Foundation Engineering	DC12	CE3L106	3-0-0	3	3
Environmental Engineering II	DC13	CE3L107	3-0-0	3	3
Introduction to Airports, Seaports and Railway Engineering	DC14	CE3L108	3-0-0	3	3
Design and Detailing of Concrete Structures	SDC 4	CE3L109	1-0-3	3	4
Design and Detailing of Steel Structures	Lab-6	CE3P103	0-0-3	2	2
Hydraulic and Hydrologic Analysis and Design	Lab-7	CE3P104	0-0-3	2	3
Total				19	21
SEMESTER-VII					
Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour

Elective-1	DE/OE		3-0-0/3-1-0	3/4	3/4
Elective-2	DE/OE		3-0-0/3-1-0	3/4	3/4
Elective-3	DE/OE		3-0-0/3-1-0	3/4	3/4
Summer Internship				2	
BTP- 1	Project 1 /DE/OE-A	xxxx/ Subject from OE/DE Basket		3	
Total				14/17	9/16

SEMESTER-VIII

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Elective-4	DE/OE		3-0-0/3-1-0	3/4	3/4
Elective-5	DE/OE		3-0-0/3-1-0	3/4	3/4
Elective-6	DE/OE		3-0-0/3-1-0	3/4	3/4
BTP- 2	Project 2 /DE/OE- B & C	xxxx/2 subjects from OE/DE Basket		6	
Total				15/18	9/16

SEMESTER- VII FOR SIX MONTH INTERNSHIP STUDENTS

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Elective-1	DE		3-0-0/3-1-0	3/4	3/4
Elective-2	DE		3-0-0/3-1-0	3/4	3/4
Elective-3	DE		3-0-0/3-1-0	3/4	3/4
Elective-4	DE		3-0-0/3-1-0	3/4	3/4
Summer Internship				2	
6 Month Internship					
Total				14/18	12/16

SEMESTER-VIII

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Elective-5	DE/OE		3-0-0/3-1-0	3/4	3/4
Elective-6	DE/OE		3-0-0/3-1-0	3/4	3/4
Elective-A (compensatory)	DE	Subject from OE/DE Basket	3-0-0/3-1-0	3/4	3/4
Elective-B & C	Elective-B & C	2 subjects from OE/DE Basket		6	6
Total				15/18	15/18

Total Credit: 155