

B.TECH CIVIL ENGG COURSE CURRICULUM

Semester wise breakup of courses for 2022 batch (Regular)

First Semester:			
Sl No.	Course No. and Name	Prerequisite	Credit Hours
			(L-T-P)
1	BPP-199 Mechanics	Nil	5 (3-1-2)6
2	BPM-141 Calculus, Multivariable Calculus and Linear Algebra	Nil	4(3-1-0) 4
3	TCE-114 Engineering Graphics and Design	Nil	3(1-0-2x2) 5
4	BHS-186 English	Nil	3(2-0-2) 4
5	TCE/TID/TME/TSW-109 Introduction to Environmental Engineering and Disaster Management	Nil	3(3-0-0) 3
6	TIP-103 Workshop Practices	Nil	3(1-0-2x2) 5
7	TIC-100 Induction Programme	Nil	Two Weeks
		Total	21 27

Second Semester:			
Sl No.	Course No. and Name	Prerequisite	Credit Hours
			(L-T-P)
1	BPC-102 Chemistry-I	Nil	4(3-0-3)6
2	TEE-104 Basic Electrical Engineering	Nil	5(3-1-2) 6
3	BPM-151 Differential equations and Complex Variables-Differentiation	Nil	5(4-1-0) 5
4	TIT-121 Programming for Problem Solving	Nil	4(3-0-2) 5
5	TWP-101 Work Programme	Nil	1(0-0-3)3
6	BHS-188 Industrial Sociology	Nil	3(3-0-0) 3
7	TCE-191 Practical Training-I	Nil	2 weeks
		Total	22 28

Third Semester:			
Sl No.	Course No. and Name	Prerequisite	Credit Hours
			(L-T-P)
1	TEC-227 Basic Electronics Engineering	Nil	4(3-0-2) 5
2	TCE-205 Computer -aided Civil Engineering Drawing	Nil	2(1-0-2) 3
3	TCE-206 Engineering Mechanics	Nil	4(3-1-0) 4
4	BPM-241 Transform, Discrete Mathematics and Complex Variables-Integration	Nil	3(2-1-0) 3
5	BHS-286 Effective Technical Communication	Nil	3(3-0-0) 3
6	TCE-207 Engineering Geology	Nil	2(2-0-0) 2
7	TCE-213 Surveying	Nil	3(2-0-3) 5
8	NSS/NCC-201	Nil	0(0-0-4) 4
		Total	21 29

Fourth Semester:			
Sl No.	Course No. and Name	Prerequisite	Credit Hours
			(L-T-P)
1	TME-209 Mechanical Engineering	Nil	3(2-1-0) 3
2	TCE-208 Disaster Preparedness & Planning	Nil	2(2-0-0) 2
3	TCE-209 Introduction to Fluid Mechanics	Nil	4(2-1-2)5
4	TCE-212 Introduction to Solid Mechanics	Nil	4(3-0-2) 5
5	TCE-216 Advanced Surveying & Geomatics	Nil	4(3-0-2) 5
6	TCE-214 Materials, Testing & Evaluation	Nil	3(2-0-2) 4
7	TCE-215 Civil Engineering - Societal & Global Impact	Nil	2(2-0-0) 2
8	NSS/NCC-202	Nil	1(0-0-4)4
9	TCE-291 Practical Training-II	Nil	2 weeks
		Total	23 30

Fifth Semester:			
Sl No.	Course No. and Name	Prerequisite	Credit Hours
			(L-T-P)
1	TCE-301 Theory of Structures	Nil	3(3-0-0) 3
2	TCE-302 Hydraulic Engineering	Nil	4(3-0-2) 5
3	TCE-303 Structural Engineering	Nil	3(3-0-0) 3
4	TCE304 Geotechnical Engineering-I	Nil	4(3-0-2) 5
5	TCE-306 Environmental Engineering	Nil	4(3-0-2) 5
6	TCE-307 Transportation Engineering	Nil	4(3-0-2) 5
7	BHS-100 Constitution of India	Nil	1(1-0-0)1
8	NSS/NCC-301	Nil	0(0-0-4)4
		Total	23 31

Sixth Semester:			
Sl No.	Course No. and Name	Prerequisite	Credit Hours
			(L-T-P)
1	TCE-308 Construction Engineering & Management	Nil	3(3-0-0) 3
2	TCE-309 Hydrology & Water Resources Engineering	Nil	3(3-0-0) 3
3	Elective-I	Nil	3(3-0-0) 3
4	Elective-II	Nil	3(3-0-0) 3
5	Open Elective-I	Nil	3(3-0-0) 3
6	Elective-III	Nil	3(3-0-0) 3
7	Elective-IV	Nil	3(3-0-0) 3
8	NSS/NCC-302	Nil	1(0-0-4)4
9	TCE-391 Practical Training - III	Nil	4 weeks
		Total	22 25

Seventh Semester:			
Sl No.	Course No. and Name	Prerequisite	Credit Hours
			(L-T-P)
1	TCE-401 Engineering Economics, Estimation & Costing	Nil	3(2-0-2) 4
2	Elective-V	Nil	3(3-0-0) 3
3	Elective-VI	Nil	3(3-0-0) 3
4	Open Elective-II	Nil	3(3-0-0) 3
5	TCE-495A Project-I	Nil	4(0-0-8)8
6	TIP-454 Principles of Management	Nil	2(2-0-0) 2
		Total	18 23

Eight Semester:			
Sl No.	Course No. and Name	Prerequisite	Credit Hours
			(L-T-P)
1	Elective-VII	Nil	3(2-0-0) 3
2	Elective-VIII	Nil	3(2-0-0) 3
3	Open Elective-III	Nil	3(3-0-0) 3
4	Open Elective-IV	Nil	3(3-0-0) 3
5	TCE-495B Project-II	Nil	8(0-0-16) 16
6	BHS-401 Values and Ethics for Engineers	Nil	2(2-0-0) 2
7	TCE-491 Seminar	Nil	1(0-0-2) 2
		Total	23 32

Total number of credits for graduation requirement = 173

Note:

1. Those students who had not taken Hindi at High School or equivalent level are essentially required to clear the course BHS-173, Elementary Hindi.
2. An Induction Programme of Two week is to be offered to the students at the start of first year.
The student can take open elective from other departments of the University