

B.TECH CIVIL ENGINEERING SCHEME AS PER NEP 2020									
OVERALL SUMMARY									
TYPE	Semester	I	II	III	IV	V	VI	VII	VIII
OVERALL GROUP	Group			<u>DCC(4 subjects), ESC & VAC (1 subject each))</u>	<u>DCC(4 subjects), ESC & VAC (1 subject each))</u>	<u>DCC(3 subjects); SEC, DEC & GEC- (1 subject each)</u>	<u>DCC(2 subjects), DEC(2 subjects), SEC & GEC (1subject each)</u>	<u>DCC(2subjects), DEC(2subjects), GEC & VAC (1 subject each)</u>	<u>Project (6 Cr)</u>
B.TECH CIVIL ENGINEERING (SUBJECT AND CREDIT DISTRIBUTION): CORE SUBJECTS									
Subjects have been grouped into Structures, Geotech, HWRE, and Allied (namely Survey, Geomatics, Transportation, Environmental)									
DCC @4CR	Structure		DCC-1 @ 4CR	Analysis of Structures-I DCC-2 Design of Structure-I DCC 3	Analysis of Structure-II DCC-6	-	Design of steel structures DCC-13	B. Tech Project-I; Internship	B. Tech Project-II
	Geotech			-	Soil Mechanics DCC-7	Geotechnical Engineering DCC-10	-		
	HWRE			Fluid Mechanics DCC-4	Hydraulics and Hydraulic Machines DCC-8		Water Resource Engineering DCC-14		
	Allied			Surveying, and Geoinformatics DCC-5	Environmental Engineering-I DCC-9	Environment Engineering-II DCC 11; Transportation Engineering DCC-12			
	Summary- Total Subjects		Structure-01	Structure-02 HWRE-01 Allied-01	Structure-01 Geotech-01 HWRE-01 Allied-01	Geotech-01 Allied-02	Structure-01 HWRE-01		
Note: For acronyms and details refer to “Schemes of Teaching and Examination, B.Tech. Program (I Year) & Syllabi of courses” available at the website link: https://dtu.ac.in/Web/Academics/ordinance/Ordinance,%20Regulations%20&Scheme%20of%20teaching%20and%20examinations%20B%20Tech%202024.pdf									

B.TECH CIVIL ENGINEERING (SUBJECT AND CREDIT DISTRIBUTION): ELECTIVES									
Subjects have been grouped into Structures, Geotech, HWRE, and Allied (namely Survey, geomatics, transportation, Environmental); See Note									
TYPE	Semester	I	II	III	IV	V	VI	VII	VIII
DEC	Group			NIL	NIL	<i>One elective</i>	<i>Two electives</i>	<i>Two electives</i>	<i>One elective</i>
	Structure			-	-	<i>DEC(1)</i>	<i>DEC(2)</i> <i>DEC(3)</i>	<i>DEC(4)</i> <i>DEC(5)</i>	<i>DEC(6)</i>
	Geotech			-	-	<i>DEC(1)</i>	<i>DEC(2)</i> <i>DEC(3)</i>	DEC(4) DEC(5)	
	HWRE			-	-	DEC(1)	DEC(2) DEC(3)	DEC (4) DEC(4)	-
	Allied			-	-	DEC(1)	DEC(2) DEC(3)	DEC(4) DEC(5)	
		Note: Electives (DECs) are to be chosen from the list.							

B.TECH CIVIL ENGINEERING (SUBJECT AND CREDIT DISTRIBUTION): OTHERS								
Subjects have been grouped into Structures, Geotech, HWRE and Allied (namely Survey, geomatics, transportation, Environmental), and as shown in types								
TYPE	I	II	III	IV	V	VI	VII	VIII
SEC	Introduction to Machine Learning @ 2CR	Programme Specific Workshop @ 2CR	-	-	Programming Python/Matlab	Engineering Economics/ Fundamentals of Management	-	-
ESC	Basic Mechanical Engineering/ Programming Fundamentals @ 4CR	Programming Fundamentals/ Basic Mechanical Engineering @ 4CR	ESC-I - Introduction to Earth, Atmosphere and Environmental Sciences	ESC-II - Smart City Planning – Basic Concepts of Digital twins, GeoBIM and Intelligent Transportation		-	-	-
VAC	-	-	Value Addition Course-I (@4Cr)	Value Addition Course-II (@2Cr)	-	-	Indian Knowledge System	-
GEC	-	-	-	-	Generic Elective Course-GEC1	Generic Elective Course-GEC2	Generic Elective Course-GEC3	Generic Elective Course-GEC4
BSC	Mathematics-I Physics @ 4CR	Mathematics-II @ 4CR						
BSC/ESC	Chemistry/ Basic Electrical and Electronics Engineering @ 4 CR	Basic Electrical and Electronics Engineering/Chemistry @ 4 CR						
AEC	Ability Enhancement Course @ 2CR	Ability Enhancement Course @ 2CR						