

Study & Evaluation Scheme of Bachelor of Technology in Civil Engineering

[Applicable for 2022-26]

Version 2022.

[As per CBCS guidelines given by UGC]



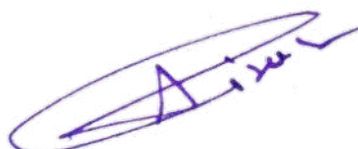
Version	Approved in BOS	Approved in BOF	Approved in Academic Council
2022	28/05/2022	08/08/2022	20/10/2022 Vide Agenda No. 8.4.1

Quantum University, Roorkee

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Quantum University

SEMESTER 3

Course Code	Category	COURSE TITLE	L	T	P	C	Version	Course Prerequisite
CE3308	PC	Applied Hydraulics	3	0	0	3	1.0	Nil
CE3310	PC	Basics of Geology & Rock Mechanics	3	0	0	3	1.0	Nil
CE3312	PC	Material Testing & Evaluation	3	0	0	3	1.0	Nil
CE3313	PC	Construction Engineering & Management	2	0	0	2	1.0	Nil
ME3308	PC	Strength of Materials	3	2	0	4	1.0	Nil
CE3345	PC	Material Testing & Evaluation Lab	0	0	2	1	1.0	Nil
CE3347	PC	Fluid Mechanics & Hydraulics Lab	0	0	2	1	1.0	Nil
CE3349	PC	Geology Lab	0	0	2	1	1.0	Nil
ME3344	PC	Strength of Materials Lab	0	0	2	1	1.0	Nil
CE3344	P	Project Lab I	0	0	4	2	1.0	Nil
VP3301	VAP	Communication and Soft Skills-III	1	0	2	2	1.0	
CE3370	FW	Internship Presentation I	1	0	0	1		
GP3301	GP	General Proficiency	0	0	0	1		
HU3202	FC	United Nations Development Programme	1	0	0	1		
Total			17	2	14	26		

Contact Hrs. 33

SEMESTER 4

Course Code	Category	COURSE TITLE	L	T	P	C	Version	Course Prerequisite
CE3403	PC	Structural Analysis	3	2	0	4	1.0	Nil
CE3407	PC	Environment Engineering	2	0	0	2	1.0	Nil
CE3408	PC	Soil Mechanics	3	2	0	4	1.0	Nil
CE3409	PC	Basics of Ground Surveying	3	0	0	3	1.0	Nil
CE3442	PC	Structural Analysis lab	0	0	2	1	1.0	Nil
CE3446	PC	Environment Engineering Lab	0	0	2	1	1.0	Nil
CE3447	PC	Soil Mechanics Lab	0	0	2	1	1.0	Nil
CE3448	PC	Basics of Ground Surveying lab	0	0	2	1	1.0	Nil
CE3444	P	Project lab II	0	0	4	2	1.0	Nil
	OE	Open Elective I	3	0	0	3		
VP3401	VAP	PDP for Managers III	2	0	0	2	1.0	
GP3401	GP	General Proficiency	0	0	0	1		
Total			16	4	12	25		

All students are required to attend two weeks survey camp after 4th semester. Performance of this camp will be evaluated and awarded in 5th semester.

Contact Hrs.32

Open Elective I

Course Code	Category	COURSE TITLE	L	T	P	C	Version	Course Prerequisite
CE3011	OE	Carbon Emission & Control	3	0	0	3	1.0	Nil
CS3021	OE	Mining and Analysis of Big data	3	0	0	3	1.0	Nil
AG3011	OE	Ornamental Horticulture	3	0	0	3	1.0	Nil
BB3011	OE	Entrepreneurial Environment in India	3	0	0	3	1.0	Nil
JM3011	OE	Media Concept and Process (Print and Electronic)	3	0	0	3	1.0	Nil
HM3011	OE	Indian Cuisine	3	0	0	3	1.0	Nil
MB3011	OE	SAP 1	3	0	0	3	1.0	Nil
EG3011	OE	French Beginner A1	3	0	0	3	1.0	Nil
MT3011	OE	Elementary Robotics	0	0	5	3	1.0	Nil

SEMESTER -5

Course Code	Category	COURSE TITLE	L	T	P	C	Version	Course Prerequisite
CE3501	PC	Advance Structural Analysis	2	2	0	3	1.0	CE3403
CE3503	PC	Design of Steel Structures	2	2	0	3	1.0	Nil
CE3504	PC	Transportation Engineering	3	0	0	3	1.0	Nil
CE3508	PC	Design of Reinforced Concrete Structures	3	2	0	4	1.0	Nil
CE3542	PC	Transportation Engineering lab	0	0	2	1	1.0	Nil
CE3544	PC	Advanced Structure Analysis Lab	0	0	2	1	1.0	Nil
	OE	Open Elective II	3	0	0	3		-
CE3543	P	Project lab V	0	0	4	2	1.0	-
VP3501	VAP	Reasoning Ability	2	0	0	2	1.0	-
CE3571	FW	Survey Camp	2	0	0	2	1.0	-
GP3501	GP	General Proficiency	0	0	0	1		-
Total			17	6	8	25		

Contact Hrs. 31




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Open Elective III

Course Code	Category	COURSE TITLE	L	T	P	C	Version	Course Prerequisite
CE3015	OE	Hydrology	3	0	0	3	1.0	Nil
CS3025	OE	Data Science Models : Regression, Classification and Clustering	3	0	0	3	1.0	Nil
AG3015	OE	Mushroom Cultivation	3	0	0	3	1.0	Nil
BB3015	OE	E-commerce	3	0	0	3	1.0	Nil
JM3015	OE	Media industry and Management	3	0	0	3	1.0	Nil
HM3015	OE	Italian Cuisine	3	0	0	3	1.0	Nil
MB3015	OE	SAP 5	3	0	0	3	1.0	Nil
EG3015	OE	French Advance C1	3	0	0	3	1.0	Nil
MT3015	OE	Robotic Industry 4.0	3	0	0	3	1.0	Nil

SEMESTER 7

Course Code	Category	COURSE TITLE	L	T	P	C	Version	Course Prerequisite
CE3701	PC	Health, Safety and Environment Management	4	0	0	4	1.0	Nil
CE3702	PC	Estimation and Costing	4	0	0	4	1.0	Nil
CE3740	P	Project Lab V	0	0	4	2	1.0	Nil
CE3741	PC	Estimation Lab	0	0	2	1	1.0	Nil
	PE	Program Elective-II	3	0	0	3	1.0	
	PE	Program Elective-III	3	0	0	3	1.0	
CE3770	FW	Internship Presentation	2	0	0	2		
CE3742	VAP	Technical VAP II	2	0	0	2	1.0	
GP3701	GP	General Proficiency	0	0	0	1	-	-
TOTAL			18	0	6	22		

Contact Hrs.24

SEMESTER 8

Course Code	Category	COURSE TITLE	L	T	P	C	Version	Course Prerequisite
	PE	Program Elective-IV	3	0	0	3	1.0	Nil
	PE	Program Elective-V	3	0	0	3	1.0	Nil
CE3870	FW	Project	0	0	0	4		
TOTAL			6	0	0	10		

Contact Hrs.6




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