



DEPARTMENT OF CIVIL ENGINEERING

TEACHING PLAN

Course Code	Course Title	Semester	Branch	Contact Periods /Week	Academic Year	Date of commencement of Semester
20CE7E01	ESTIMATION, SPECIFICATIONS AND CONTRACTS	VII	CIVIL	06	2025-26	09-06-2025

COURSE OUTCOMES

1	Determine the quantities of different components of buildings. [K2]
2	Find the cost of various building components. [K2]
3	Determine the quantities of earthwork and prepare bar bending schedule. [K2]
4	Finalize the contract, specifications and value of structures. [K3]
5	Prepare detailed estimation of buildings. [K3]

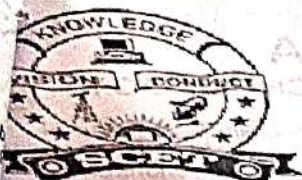
UNIT	Out Comes / Bloom's Level	Topics No.	Topics/Activity	Text Book / Reference	Contact Hour	Delivery Method
I	Determine the quantities of different components of buildings. [K2]	1.1	Introduction	T1,R1	1	Chalk & Talk, PPT, Tutorial
		1.2	General items of work in Building	T1,R1	1	
		1.3	General items of work in Building	T1,R1	1	
		1.4	Standard Units Principles of working out quantities for detailed and abstract estimates	T1,R1	1	
		1.5	Standard Units Principles of working out quantities for detailed and abstract estimates	T1,R2	1	
		1.6	Standard Units Principles of working out quantities for detailed and abstract estimates	T1,R2	1	
		1.7	Problems	T1,R1	1	
		1.8	Problems	T1,R1	1	



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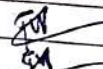
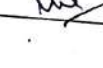
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		1.9	Approximate method of Estimating.	T2,R1	1	
		1.10	Approximate method of Estimating.	T2,R1	1	
		1.11	Problems	T2,R1	1	
		1.12	Problems	T2,R1	1	
		Total			12	
II	Find the cost of various building components. [K2]	2.1	Introduction	T2,R1	1	Chalk & PPT, Tutorial
		2.2	Rate Analysis	T2,R1	1	
		2.3	Rate Analysis	T2,R2	1	
		2.4	Working out data for various items of work over head and contingent charges.	T2,R1	1	
		2.5	Working out data for various items of work over head and contingent charges.	T2,R2	1	
		2.6	Working out data for various items of work over head and contingent charges.	T2,R1	1	
		2.7	Problems	T1,R1	1	
		2.8	Problems	T1,R1	1	
		2.9	Problems	T1,R1	1	
		2.10	Problems	T1,R1	1	
		2.11	Working out data for various items of work over head and contingent charges.	T1,R1	1	
		2.12	Working out data for various items of work over head and contingent charges.	T1,R1	1	
		Total			12	
III	Determine the quantities of earthwork and prepare bar bending schedule. [K2]	3.1	Introduction	T2,R1	1	Chalk & Talk, PPT, Tutorial
		3.2	Earthwork for roads and canals,	T2,R1	1	
		3.3	Earthwork for roads and canals,	T1,R2	1	
		3.4	Problems	T2,R2	1	
		3.5	Problems	T1,R2	1	
		3.6	Earthwork for roads and canals,	T2,R1	1	
		3.7	Reinforcement bar bending	T1,R2	1	



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	5.12	Problems	T1,R2	1	
			Total	12	
			CUMULATIVE PROPOSED PERIODS	60	
Text Books:					
S.No.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION				
1	B.N. Dutta 'Civil Engineering Estimating and Costing', Visionias publishers LTD, 2024.				
2	B.N. Dutta, 'Estimating and Costing', UBS publishers, 2017.				
3	G.S. Birdie, 'Estimating and Costing, 2015.				
Reference Books:					
S.No.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION				
1	B.N. Dutta, 'Estimating and Costing', UBS publishers, 2017.				
2	M. Chakraborti, 'Estimation, Costing and Specifications', Laxmi publications, 2018.				
Web Details					
1	https://www.youtube.com/watch?v=r0aDjTLxy5c				

i.	Faculty	Name	Signature with Date
ii.	Course Coordinator	G.VENKATA RAMANA	
iii.	Module Coordinator	G.VENKATA RAMANA	
iv.	Programme Coordinator	D.SATISH	
		G.VLN MURTHY	


Principal