220	CE703	ESTIMATION, COSTING AND VALU	ATION	S	VII								
PREF	REQUISI	Category	PC Credi		edit	3							
Const	hum ation N	L	Т	Р	ТН								
Const	truction N	3	0	0	3								
Cours	se Learni	ng Objectives		1	1	•							
1	To study	the knowledge in estimation and will be able to prepare est	timates										
2	To understand procedure of rate analysis for all building												
3	To study tender practices, specification and prepare report.												
4	To study	contract procedures											
5	To understand valuation of building												
U	nit I	QUANTITY ESTIMATION		9	0	0	9						
materi floors	als in singl and roofs,	nation- units- item work- different kinds of estimates- le room building- two room building- multi storey building R.B and R.C.C works, Plastering, white washing, Dister- ates of joineries for panelled and glazed doors, window, ve	ngs with different se	ctions o , doors	of walls	,founda	ation,						
Un	it II	RATE ANALYSIS AND COSTIN	G	9	0	0	9						
analys	-	nce and requirements of rate analysis- units of measurements s- Earth work, concrete works, R.C.C works, reinforce but ering)	· ·	-									
Uni	it III	SPECIFICATIONS, REPORTS AND TE	NDERS	9	0	0	9						
report	preparation procedures	Detailed and general specifications – Constructions – Sou n – report on estimate of residential building – Culvert – Ro s – Drafting model tenders , E-tendering-Digital signature	oads – TTT Act 2000) – Teno	der noti	ces – ty	pes –						
Un	it IV	CONTRACTS		9	0	0	9						
constru	uction – D	s of contracts – Formation of contract – Contract cond rafting of contract documents based on IBRD / MORT act problems – Arbitration and legal requirements.					-						
Un	nit V	9	0	0	9								
		rious types of valuations – Valuation methods – Necessity nd – Buildings – Calculation of Standard rent – Mortgage –	· ·	– Depre	ciation	– Escal	ation						
				-	Fotal=	45 Per	riods						
Text	t Books:												
1	Dutta BN	, Estimating & costing in Civil Engineering, UBS Publishe	rs & Distributors Pv	t. Ltd, 2	8 th Edit	ion 202	0						

2	Kohli, D.D and Kohli R.C Text book of Estimating and Costing (Civil), S.Chand & Company Ltd, 13th Edition 2013
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3	Rangwala SC Estin	nating & Costing,	Charotar Publishing	House, Pvt Ltd 1st	January 2017
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Reference Books: 1 M. Chakraborty, Estimation, Costing, Specification & Valuation in Civil Engineering, Charotar Publishing House 2 Hand Book of Consolidated Data – 8/2000, Vol.1, TNPWD

3	Standard Data Book for Analysis and Rates IRC, New Delhi 2003
4	Standard Data Book for Analysis and Rates, IRC, New Delhi, 2015

Course Outcomes: Upon completion of this course, the students will be able to:				
CO1	Understand the approximate cost of the projects through preliminary and detailed estimates	Understand		
CO2	Analyze the rates of individual items for the preparation of the estimates	Analyse		
CO3	Explain schedule of quantities required to be attached with the tender documents	Understand		
CO4	Gain knowledge on types of contract.	Remember		
CO5	Understand the valuation of assets	Evaluate		

COURSE ARTICULATION MATRIX

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	1	1	-	-	-	-	-	-	-	-	2	-
CO2	2	2	2	-	-	-	-	-	-	-	-	-	-	2	-
CO3	2	2	1	2	1	-	-	-	-	-	-	-	-	2	-
CO4	2	2	1	1	1	-	-	-	-	-	-	-	-	2	-
CO5	2	2	3	2	1	2	1	-	-	-	-	-	1	2	-
Avg	2	2	1.8	1.5	1	2	1	-	-	-	-	-	1	2	-
3/2/1 – indicates strength of correlation (3- High, 2- Medium, 1- Low)															