

	CO3	M			H						M	
	CO4					H		H				
	CO5	H									H	
List of Topics Covered												
UNIT I ESTIMATION											9	
Purpose – Methods of estimation – advantages – types of estimates – detailed estimates of residential buildings – single storied and multistoried buildings – earthwork – foundations – Super structure – Fittings including sanitary and electrical fittings – paintings.												
UNIT II SPECIFICATIONS AND TENDERS											9	
Specifications – Detailed and general specifications – construction specifications – sources – types of specifications – Tender notices – types – corrigendum notice – tender procedures – Drafting model tenders												
UNIT III CONTRACTS											9	
Contract – types of contracts – formation of contract – contract conditions – contract problems – contract for labor, material, design and construction – drafting of contract documents – construction contracts – arbitration and legal requirements.												
UNIT IV RATE ANALYSIS AND PREPARATION OF BILLS											9	
Data – Rate analysis – abstract estimate – report to accompany estimate – measurement book – bills – types												
UNIT V VALUATION											9	
Basic – Principles of valuation – Value and Cost – value engineering – value analysis – phases in value engineering – information – function – escalation – evaluation – recommendation implementation – Audit												