## Lesson plan

Nam	e of	Faculty	SANDEEP GOYAL					
Discipline			CIVIL Engineering					
Semester			6					
Subject			Quantity Surveying and Valuation					
			From 15 Feb 2024 to 14 June 2024					
		d [Theory +						
		l Per Week	[04+02]					
Week	Day		Assignment/ Test	No.	Practical			
	1	Introduction to QS		1	Prepare the list of items to be executed with units for detailed estimate of a given structure from the given drawing.			
	2	Introduction to quantity surveying and its importance						
1 st	3	Duties of quantity surveyor						
	4	Duties of quantity surveyor			structure from the given drawing.			
	1	Types of estimates			Prepare a report on market rates for given material, labor wages, hire charges of tools & equipment's required to construct the given structure as mentioned in at Serial number 1			
	2	Preliminary estimates						
$2_{nd}$	3	Plinth area estimate - Cubic content estimate  Detailed estimates - Definition - Stages of preparation - details						
	4							
		of measurement	and calculation of quantities and abstract		above.			
		Detailed estimate	es - Definition - Stages of preparation – details					
	1	of measurement and calculation of quantities and abstract						
$3_{\rm rd}$	2	· ·		3	Study of items with specification given in the HSR (for any ten items)			
	3	Units of measurement for various items of work Units of measurement for various items of work						
	4							
		Rules for measurements  Different methods of taking out quantities – center line method			+			
	1		d short wall method					
	2	Assignment/Class test of 1 <sup>st</sup> unit						
$4_{th}$	3		ls of taking out quantities – center line method	4	Revision/File checking			
	3	and long wall and	d short wall method					
	4	Preparation of D	etailed and Abstract Estimates from Drawings					
	4	by following CS	R rates					
		A small residential building with a flat roof comprising of - Two						
	1	rooms with W.C., bath, kitchen						
					Pacarding in Massurament Deals (MD) for			
$5_{th}$	2		al building with a flat roof comprising of - Two	5	Recording in Measurement Book (MB) for any four items			
	_	rooms with W.C.	., bath, kitchen and verandah					
	3	Earthwork for unlined channel						
	4	WBM road and pre-mix carpeting						
	1	NUMERICAL PROBLEM						
	2	NUMERICAL P		6	Prepare bill of quantities of given item from			
6th	3	NUMERICAL PROBLEM		Ů	actual measurements (any four items).			
	4	NUMERICAL PROBLEM Single spain (See State Curvent), Landinwork for plain and thin						
	1	randa	<u> </u>					
$7_{\rm th}$	2		ams, slab, column and lintel, foundations	7	Mid- term viva-voice/file checking			
	3		ams, slab, column and lintel, foundations					
	4	10 users septic ta						
	2	10 users septic ta	antities of materials for, coment mortals of		Prepare bill of quantities of given item from actual measurements (any four items).			
0.	3	Cement concrete	of different proportion	o				
8 <sub>th</sub>	,			8				
	4	Plastering, point	onry in cement mortar of different proportion,					
	1				+			
	1	D.P.C. and floor			Calculate the reinforcement quantities from			
9	2	Assignment/Class test Revision/checking/Problems solutions			the given set of drawings for a room size of 3 m X 4 m with bar bending schedule (footing,			
	3							
	4	Steps involved in the analysis of rates. Requirement of material, labour, sundries, contractor's profit and overhead			column, beam, lintel with chajja, slab))			
		iabour, sundries, c	contractor's profit and overhead					

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	1	Analysis of rates for finished items when data regarding labour, rates of material and labour is given: - Earthwork in excavation in hard/ordinary soil and filling with a concept of lead and lift - RCC in roof slab/beam/lintels/columns	10	Calculate the reinforcement quantities from the given set of drawings for a room size of 3 m X 4 m with bar bending schedule (footing, column, beam, lintel with chajja, slab)
10 <sub>th</sub>	2	Analysis of rates for finished items when data regarding labour, rates of material and labour is given: - Earthwork in excavation in hard/ordinary soil and filling with a concept of lead and lift - RCC in roof slab/beam/lintels/columns		
	3	Brick masonry in cement mortar - Cement Plaster - White washing, painting		
	4	Brick masonry in cement mortar - Cement Plaster - White washing, painting		
	1	Contractorship - Meaning of contract, Essentials of a contract, Types of contracts, their advantages, dis-advantages and suitability, system of payment		
11	2	Single and two cover-bids; tender, tender forms and documents, tender notice, submission of tender		Revision/File checking
	3	Earnest money, Security money and retation money		
		Exercises on writing detailed specifications of different types of building works from excavation to foundations, superstructure and finishing operation		Revision/File checking
12 <sub>th</sub>	2	Exercises on preparing tender documents for the following a) Earth work b) Construction of a small house as per given drawing		
	3	c) RCC works d) Pointing, plastering and flooring e) White- washing, distempering and painting		
	4	f) Wood work including polishing g) Sanitary and water supply installations h) False ceiling, aluminum (glazed) partitioning		
	1	Assignment / Class test		Calculate the quantity of items of work from the given set of drawings using standard measurement sheet for load bearing residential structure using description of item from DSR (1BHK Building with staircase).
	2	Problem solution/ test check		
13th	3	Tile flooring including base course j) Preparation of comparative statement for item rate contract  Valuation, Purpose of valuation, principles of valuation		
	4			
14	1	Definition of various terms related to valuation like depreciation, sinking fund, salvage and scrap value, market value, fair rent, year's purchase	14	Calculate the quantity of items of work from the given set of drawings using standard
14th		Method of valuation		measurement sheet for load bearing residential structure using description of item from DSR (1BHK Building with staircase).
		Numerical revision Revision/checking/Problems solutions		
		Revision/checking/Problems solutions Revision/checking/Problems solutions		
-		Revision/checking/Problems solutions Revision/checking/Problems solutions Revision/checking/Problems solutions		Checking File
15				
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