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Kurigram Polytechnics Institute, Kurigram
Semester plan

Course name : Estimating and costing (6442)

Teachers name : Md. Aminul islam khan

No. of week	No. of Classes	• General Objective	• Specific Object	Remarks
1	1	Understand the basic concept of estimating .	1.1 Define the term estimating . 1.2 State the methods of estimating . 1.3 Mention the rules and methods of measurements of works. 1.4 Mention the rules of deduction for opening,bearing etc. in masonry . 1.5 List unit weight of different materials used in construction works 1.6 Write unit of different items of works as per standard practice.	
	2			
2	1	Understand the basic concept of estimating	1.4 Mention the rules of deduction for opening,bearing etc. in masonry . 1.5 List unit weight of different materials used in construction works 1.6 Write unit of different items of works as per standard practice.	
	2			
3	1	Estimate the volume of earth work for excavating a tank	2.1 Mention the rules of finding out the volume of earth work by mid area method. 2.2 Mention the rules of finding out the volume of earth work by mean area method. 2.3 Mention the rules of finding out the volume of earth work by prismoidal method.	
	2			

4	1	Estimate the volume of earth work for road embankment	<p>3.1 Identify the side slopes for different heights of road embankment.</p> <p>3.2 Identify the cross section of road embankment.</p> <p>3.3 State the method of finding out the volume of earth work in embankment by mid area method..</p>	
	2			
5	1	Estimate the volume of earth work for road embankment	<p>3.4 State the method of finding out the volume of earth work in embankment by mean area method..</p> <p>3.5 State the method of finding out the volume of earth work in embankment by prismoidal method.</p>	
	2			
6	1	Estimate the volume of earth work for canal digging	<p>4.1 Identify the cross section of partly banking and partly cutting.</p> <p>4.2 .Explain the method of finding out volume of earth work for partly banking and partly cutting.</p> <p>4.3 .Explain the terms lead and lift.</p>	
	2.			
7	1	Estimate the different quantities of item of work in steps , boundary wall and roads	<p>5.1 Identify different parts of a steps .</p> <p>5.2 List different items of works in a boundary wall .</p> <p>5.3 List different items of works in a bituminous road .</p> <p>5.4 List different items of works in a RCC road.</p>	
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8	1	Understanding The procedure of estimating of simple building	<p>6.1 State centre line and separate wall method.</p> <p>6.2 Mention the advantage and disadvantage of centre line and separate wall methods.</p> <p>6.3 Explain the methods of deduction for opening or over lapping.</p>	
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9 & 10			Class test ,quiz test and Mid semester Examination	

11	1	Understanding The procedur e of estimatin g of simple building	6.4 Define the terms sub-structure and super- structure. 6.5 .Explain the dimensions length, breadth and height or depth of any section. 6.6 Identify main wall, partition wall, outer wall, inner wall, parapet wall etc. 6.7 Identify RCC work in lintel, beam, stair, floor/roof slab, sunshade, shelve, railing, drop wall etc.	
	2			
12	1	Understanding The procedur e of estimatin g of simple building	6.8 .List different sizes of doors and windows. 6.9 List the number of ventilators required. 6.10 Identify the items of work for civil construction.	
	2			
13	1	Understand the basic concept of rate analysis	7.1 State meaning of rate analysis. . 7.2 Explain the purposes of rate analysis. 7.3 Explain the terms, contractors profit, overhead charges, contingency sundries and lumsum. 7.4 Mention the advantage of rate analysis to prepare cost estimate .	
	2			
14, 15, 16			Class test ,Quiz test, Extra class and Semester Final Examination.	