

Bangladesh Polytechnic Institute

Technology: **Civil**

Semester: 4th

Sub. Name: **ESTIMATING & COSTING -I (6442)**

T P C: 3 3 4

Course Outline

Teacher Name: Imanullah

Mob.No: 01736 40 83 93

Class No.	Discussion and Explanation of Topics/ Titles	Remarks
Class-1	<p>❖ Understand the basic concept of estimating .</p> <ul style="list-style-type: none"> ➤ Define the term estimating ➤ State the methods of estimating . 	
Class-2	<p>❖ Understand the basic concept of estimating .</p> <ul style="list-style-type: none"> ➤ Mention the rules of deduction for opening,bearing etc. in masonry ➤ Mention the rules and methods of measurements of works. 	
Class-3	<p>❖ Understand the basic concept of estimating .</p> <ul style="list-style-type: none"> ➤ List unit weight of different materials used in construction works ➤ Write unit of different items of works as per standard practice. 	
Class-4	<p>❖ Estimate the volume of earth work for excavating a tank</p> <ul style="list-style-type: none"> ➤ Mention the rules of finding out the volume of earth work by mid area method. 	
Class-5	<p>❖ Estimate the volume of earth work for excavating a tank</p> <ul style="list-style-type: none"> ➤ Mention the rules of finding out the volume of earth work by mean area method. ➤ Mention the rules of finding out the volume of earth work by prismatical method. 	
Class-6	<p align="center">🚩 <u>Feed back</u></p>	
Class-7	<p align="center">🚩 <u>Feed back</u></p>	
Class-8	<p>❖ Estimate the volume of earth work for road embankment.</p> <ul style="list-style-type: none"> ➤ Identify the side slopes for different heights of road embankment. ➤ Identify the cross section of road embankment. 	
Class-9	<p>❖ Estimate the volume of earth work for road embankment.</p> <ul style="list-style-type: none"> ➤ State the method of finding out the volume of earth work in embankment by mid area method. ➤ State the method of finding out the volume of earth work in embankmentby mean area method. 	

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Class-10	<p>❖ Estimate the volume of earth work for road embankment.</p> <p>➤ State the method of finding out the volume of earth work in embankment by prismatic method.</p>	
Class-11	<p>❖ Estimate the volume of earth work for canal digging.</p> <p>➤ Identify the cross section of partly banking and partly cutting.</p>	
Class-12	<p>❖ Estimate the volume of earth work for canal digging.</p> <p>➤ Explain the method of finding out volume of earth work for partly banking and partly cutting</p>	
Class-13	<p>❖ Estimate the volume of earth work for canal digging.</p> <p>➤ Explain the terms lead and lift.</p>	
Class-14	<p> <u>Class Test</u></p>	
	<p> <u>Mid Term Exam</u></p>	
Class-15	<p>❖ Estimate the different quantities of item of work in steps , boundary wall and roads</p> <p>➤ Identify different parts of a steps</p> <p>➤ List different items of works in a boundary wall .</p>	
Class-16	<p>❖ Estimate the different quantities of item of work in steps , boundary wall and roads</p> <p>➤ List different items of works in a bituminous road</p> <p>➤ List different items of works in a RCC road.</p>	
Class-17	<p>❖ Understand the procedure of estimating a simple building.</p> <p>➤ State centre line and separate wall method.</p> <p>➤ Mention the advantage and disadvantage of centre line and separate wall methods.</p>	
Class-18	<p>❖ Understand the procedure of estimating a simple building.</p> <p>➤ Explain the methods of deduction for opening or over lapping.</p> <p>➤ Define the terms sub-structure and super- structure.</p>	
Class-19	<p>❖ Understand the procedure of estimating a simple building.</p> <p>➤ Explain the dimensions length, breadth and height or depth</p>	

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	<p>of any section.</p> <ul style="list-style-type: none"> ➤ Identify main wall, partition wall, outer wall, inner wall, parapet wall etc. 	
Class-20	<p>❖ Understand the procedure of estimating a simple building.</p> <ul style="list-style-type: none"> ➤ Identify RCC work in lintel, beam, stair, floor/roof slab, sunshade, shelve, railing, drop wall etc. 	
Class-21	<p>❖ Understand the procedure of estimating a simple building.</p> <ul style="list-style-type: none"> ➤ List different sizes of doors and windows. ➤ List the number of ventilators required. 	
Class-22	<p>❖ Understand the procedure of estimating a simple building.</p> <ul style="list-style-type: none"> ➤ Identify the items of work for civil construction. 	
Class-23	<p>❖ Understand the basic concept of rate analysis.</p> <ul style="list-style-type: none"> ➤ State meaning of rate analysis. . ➤ Explain the purposes of rate analysis. 	
Class-24	<p>❖ Understand the basic concept of rate analysis.</p> <ul style="list-style-type: none"> ➤ Explain the terms, contractors profit, overhead charges, contingency sundries and lumsum. 	
Class-25	<p>❖ Understand the basic concept of rate analysis.</p> <ul style="list-style-type: none"> ➤ Mention the advantage of rate analysis to prepare cost estimate 	
Class-26	<p>📌 <u>Feedback</u></p>	
Class-27	<p>📌 <u>Feedback</u></p>	
Class-28	<p>📌 <u>Class Test</u></p>	

Reference Book:-

Estimating and costing - Gurucharan Singh

Estimating and costing - B N Datta