

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF  
ENGINEERING & TECHNOLOGY, BARGARH



LESSON PLAN  
Session-2023-2024

Discipline: Civil Engineering Engg. Semester: 5<sup>TH</sup>

Subject: Estimation & cost Evaluation-II

Name of the Teaching Faculty: Satjanarayan Bhusagar

Estimation &  
cost Evaluation - II

Subject: \_\_\_\_\_ No. of Days/per week class allotted 04

Semester From Date: 1/8/23 To Date: 30/11/23 No. of Weeks: 15

Week	Class Day	Theory / Practical Topics
1	1st	Introduction to Slab culvert Functions & components of Slab culvert, details about Slab culvert
	2nd	Detailed estimate of RCC Slab culvert
	3rd	Detailed estimate of a RCC Slab culvert with right angle walls.
	4th	Detailed estimate of a RCC Slab culvert with right angle walls with bar bending Schedule
2	1st	Detailed estimate of a RCC Slab culvert with right angle walls with bar bending schedule.
	2nd	Revision of detailed estimate of RCC Slab culvert
	3rd	Introduction to RCC Home pipe culvert, Functions & components of home pipe culvert.
	4th	Detailed estimate of home pipe culvert
3	1st	Detailed estimate of home pipe culvert with splayed angled wing walls.
	2nd	Detailed estimate of home pipe culvert with splayed angled wing walls.
	3rd	Detailed estimate of home pipe culvert with splayed angled wing walls.
	4th	Revision of detailed estimate of Home pipe culvert.

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Week	Class Day	Theory / Practical Topics
4	1st	Introduction to fall, type of fall, function of fall.
	2nd	Different types of falls with details specification.
	3rd	Detailed estimate of single type of fall
	4th	Detailed estimate of canal fall with given specification.
5	1st	Detailed estimate of vertical fall with given specification.
	2nd	Detailed estimate of ogee fall
	3rd	Revision about types of falls details & functions.
	4th	Introduction to drainage siphon components functions.
6	1st	Types of siphon with different components & functions.
	2nd	Detailed estimate of drainage siphon.
	3rd	Detailed estimate of drainage siphon with given specification.
	4th	Detailed estimate of drainage siphon with given specification.

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Week	Class Day	Theory / Practical Topics
7	1st	Detailed estimate of siphon for irrigation
	2nd	Revision about types of siphon, details & functions
	3rd	Introduction to road, water bound macadam road, specification
	4th	Advantages & dis advantages of WBM Detail estimate
8	1st	Detailed estimate of WBM
	2nd	Detail estimate of WBM of Revision about WBM
	3rd	Introduction to flexible pavement cutting, filling of road.
	4th	Functions of flexible pavement component.
9	1st	Detailed estimate of a flexible pavement
	2nd	Detailed estimate of a flexible pavement Revision
	3rd	Introduction to septic tank, soak pit, components, functions.
	4th	Detailed estimate of septic tank & soak pit.

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Week	Class Day	Theory / Practical Topics
10	1st	Detailed estimate of septic tank & soak pit
	2nd	Revision about septic tank, soak pit for no. of users.
	3rd	Introduction to tube well, components & function.
	4th	Details estimate of tube well
11	1st	Details estimate of tube well with given specification.
	2nd	Revision about well, tube well,
	3rd	Introduction to pile cap components, functions.
	4th	Details of pile cap, Details estimate of pile cap.
12	1st	Details estimate of pile cap.
	2nd	Revision about pile cap
	3rd	Introduction to isolated footing, function & components.
	4th	Details estimate of isolated footings

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Week	Class Day	Theory / Practical Topics
13	1st	Introduction to combined footing functions, components.
	2nd	Detail estimate of combined footing.
	3rd	works, classification of work
	4th	concept of method of execution contract, work order, agreement.
14	1st	Accounts of work, E-tendering charges, security deposits, advance payment.
	2nd	Measurement book, labour employed debit, credit transfer
	3rd	Mustor roll, preparation, use Acquittance roll, preparation, use.
	4th	Labour, labour report, method, necessity & submission.
15	1st	classification of store issue, statement, preparation of store account, return.
	2nd	Building bye law, regulatory bodies, Rera etc.
	3rd	Revision of Account work contract, debit credit
	4th	Revision of mustor roll, preparation building bye laws, labour report.

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