



LESSON PLAN : Estimating & Cost Evaluation- II (TH-5) FOR THE SESSION 2025-26(WINTER-2025) BATCH-2023-26, GOVT. POLYTECHNIC,KANDHMAL,PHULABANI

Discipline: Civil Engineering	Semester: 5th	Name of the Teaching Faculty : RAJKUMAR HALBA, Lecturer, Stage-I (Civil Engg.)
Subject: Estimating & Cost Evaluation- II (TH-5)	No. of days/ per week class allotted: 4	Semester From Date : 14/07/2025 to Date: 15/11/2025 No. of Weeks: 15
Week	Class Day	Theory/ Practical Topics
		1.Detailed estimate of culverts and bridges
1st	1st	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule
	2nd	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule
	3rd	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule
	4th	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule
2nd	1st	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule
	2nd	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule
	3rd	1.2 RCC Hume pipe culvert with splayed angled wing wall
	4th	1.2 RCC Hume pipe culvert with splayed angled wing wall
3rd	1st	1.2 RCC Hume pipe culvert with splayed angled wing wall
	2nd	1.2 RCC Hume pipe culvert with splayed angled wing wall
	3rd	1.2 RCC Hume pipe culvert with splayed angled wing wall
	4th	1.2 RCC Hume pipe culvert with splayed angled wing wall
		2.Estimate of irrigation structures
4th	1st	2.1 Detailed estimate of simple type of vertical fall to given specification
	2nd	2.1 Detailed estimate of simple type of vertical fall to given specification
	3rd	2.1 Detailed estimate of simple type of vertical fall to given specification
	4th	2.1 Detailed estimate of simple type of vertical fall to given specification
5th	1st	2.1 Detailed estimate of simple type of vertical fall to given specification
	2nd	2.1 Detailed estimate of simple type of vertical fall to given specification
	3rd	2.2 Detailed estimate of drainage siphon to given specification.
	4th	2.2 Detailed estimate of drainage siphon to given specification.
6th	1st	2.2 Detailed estimate of drainage siphon to given specification.
	2nd	2.2 Detailed estimate of drainage siphon to given specification.

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	3rd	2.2 Detailed estimate of drainage siphon to given specification.
	4th	2.2 Detailed estimate of drainage siphon to given specification.
7th	1st	2.2 Detailed estimate of drainage siphon to given specification.
	2nd	2.2 Detailed estimate of drainage siphon to given specification.
		Detailed estimate of roads
	3rd	3.1 Detail estimate of a water bound macadam road
	4th	3.1 Detail estimate of a water bound macadam road
	1st	3.1 Detail estimate of a water bound macadam road
8th	2nd	3.1 Detail estimate of a water bound macadam road
	3rd	3.2 Detailed estimate of a flexible pavement in cutting / filling
	4th	3.2 Detailed estimate of a flexible pavement in cutting / filling
	1st	3.2 Detailed estimate of a flexible pavement in cutting / filling
9th	2nd	3.2 Detailed estimate of a flexible pavement in cutting / filling
	3rd	3.2 Detailed estimate of septic tank and soak pit for 50 users
	4th	3.2 Detailed estimate of septic tank and soak pit for 50 users
	1st	3.2 Detailed estimate of septic tank and soak pit for 50 users
10th		3.2 Detailed estimate of septic tank and soak pit for 50 users
	2nd	Miscellaneous estimates
	3rd	4.1 Tube well, Piles and Pile cap, Isolated and combined footings.
	4th	4.1 Tube well, Piles and Pile cap, Isolated and combined footings.
	1st	4.1 Tube well, Piles and Pile cap, Isolated and combined footings.
11th	2nd	4.1 Tube well, Piles and Pile cap, Isolated and combined footings.
	3rd	4.1 Tube well, Piles and Pile cap, Isolated and combined footings.
	4th	4.1 Tube well, Piles and Pile cap, Isolated and combined footings.
12th	1st	4.1 Tube well, Piles and Pile cap, Isolated and combined footings.
	2nd	4.1 Tube well, Piles and Pile cap, Isolated and combined footings.
	3rd	4.1 Tube well, Piles and Pile cap, Isolated and combined footings.
	4th	4.1 Tube well, Piles and Pile cap, Isolated and combined footings.
13th	1st	4.1 Tube well, Piles and Pile cap, Isolated and combined footings.
	2nd	4.1 Tube well, Piles and Pile cap, Isolated and combined footings.
		PWD Accounts works
	3rd	5.1 Works5.1.1 Classification of work-original, major, petty, repair work, annual repair, special repair, quadrantal repair.

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	4th	5.1.2 Concept of Method of execution of works through the contractors and department, contract and agreement, work order, types of contract, piece work agreement.
14th	1st	5.2 Accounts of works – 5.2.1 Explanation of various terms. 5.2.1 Explanation of various terms.
	2nd	Administrative approval, technical sanction, tender, preparation of notice inviting tender, quotations, earnest money, E-tendering, security deposit, advance payment, intermediate payment, final payment, running bill, final bill, regular and temporary establishment, cash.
	3rd	5.2.2 Measurement book use & maintenance, procedure of marking entries of measurement of work and supply of materials, labour employed, standard measurement books and common
	4th	5.2.3 Muster roll : Its preparation & use for making payment of pay & wages
15th	1st	5.2.4 Acquittance Roll : Its preparation & use for making payment of pay & wages
	2nd	5.2.5 Labour & labour report, method of labour payment, use of forms and necessity of Submission
	3rd	5.2.6 Classification of stores, receipt / issue statement on standard form, method of preparation of stock account, preparation and submission of returns, verification of stocks, shortage and
	4th	5.3 Building BYLAWS and REGULATORY Bodies, Development authorities, types and their levels, RERA etc.

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