



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

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| 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. |

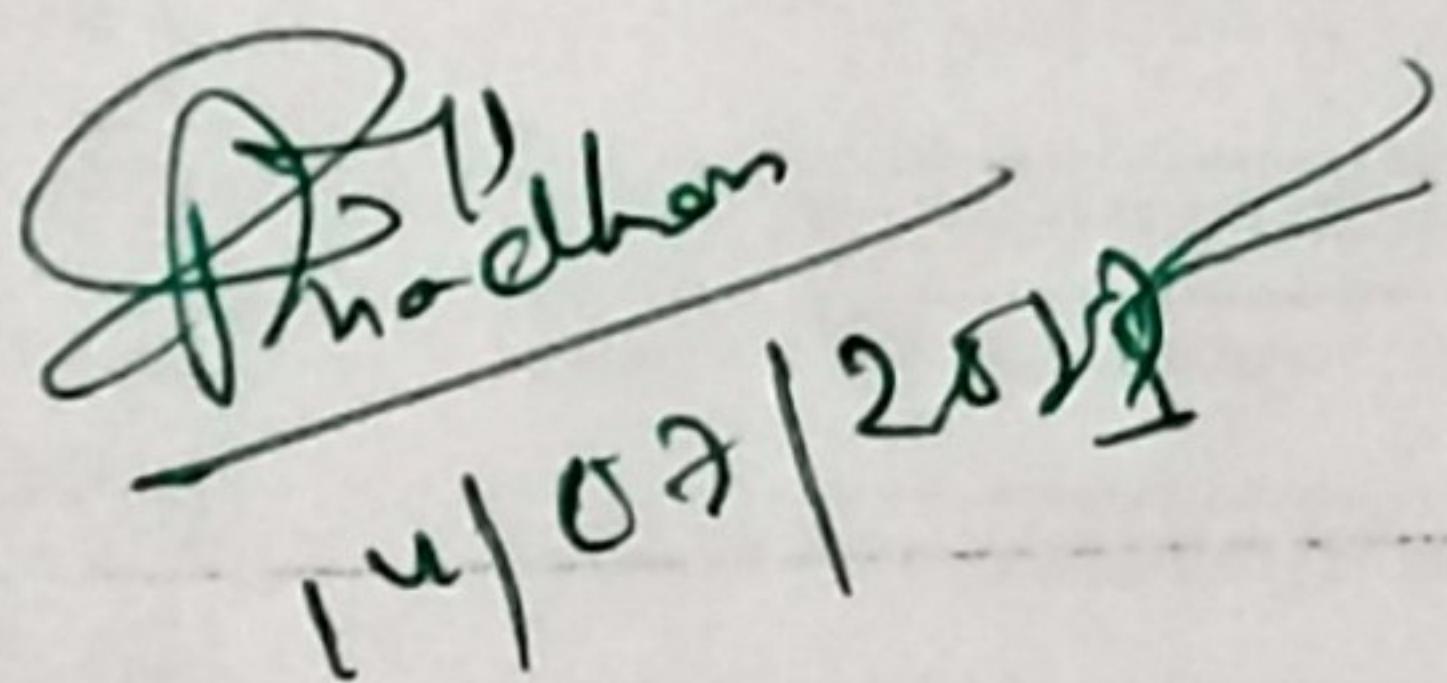
*11/07/25
(Lect. stage-I, Civil)*

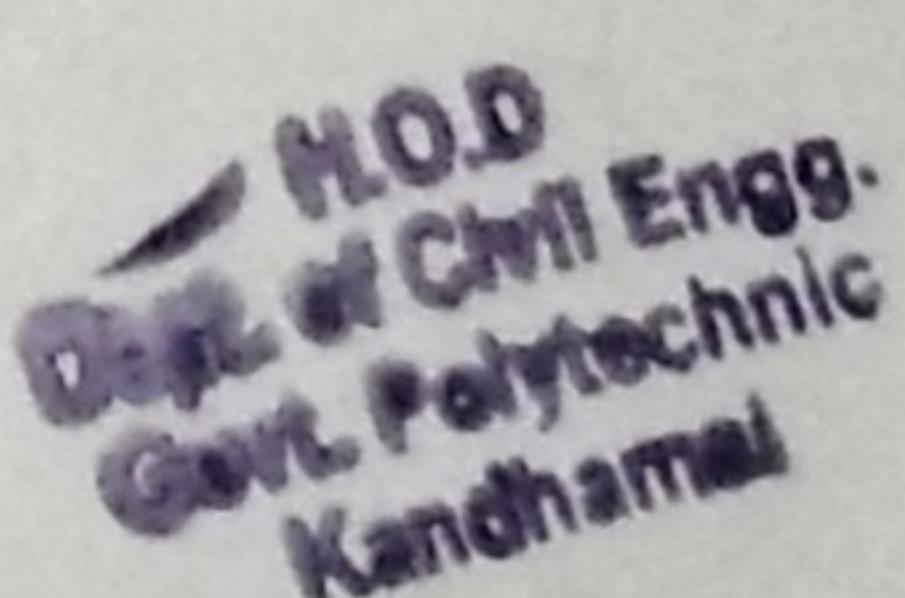
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| | 3rd | 2.2 Detailed estimate of drainage siphon to given specification. |
| | 4th | 2.2 Detailed estimate of drainage siphon to given specification. |
| 7th | 1st | 2.2 Detailed estimate of drainage siphon to given specification. |
| | 2nd | 2.2 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. |
| | 1st | 4.1 Tube well, Piles and Pile cap, Isolated and combined footings. |
| 12th | 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. |
| | 1st | 4.1 Tube well, Piles and Pile cap, Isolated and combined footings. |
| 13th | 2nd | 4.1 Tube well, Piles and Pile cap, Isolated and combined footings. |
| | | PWD Accounts works |
| | 3rd | 5.1 Works 5.1.1 Classification of work-original, major, petty, repair work, annual repair, special repair, quadrant repair. |

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14/07/2025

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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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