BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK

DEPARTMENT OF CIVIL ENGINEERING



LESSON PLAN

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| SUBJECT: ESTIMATING & COST EVALUATION- II (TH5) | ACCADEMIC SESSION: 2021-22 |
| FACULTY: SRI PITABAS MISHRA | SEMESTER: 5TH |
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| H O D (Civil Engg.) |

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| **Discipline:**  **Civil Engineering** | **Semester:**  **5th** | | **Name of the teaching faculty:**  **SRI PITABAS MISHRA** |
| **Subject:**  **Estimating & Cost Evaluation- II** | **No. of Days/ per week class allotted: 04 period per week. (Mon-1 period, Tue-2 period,Wed-1 period)** | | **Semester From Date: 01-10-2021**  **To Date: 08-01-2022**  **No. of weeks: 13 weeks** |
| **Week** | **Class Day** | **No of period available** | **Theory Topics** |
| 1ST | 04/10/2021 | 1 | 1. Detailed estimate of culverts and bridges |
| 05/10/2021 | 2 | 1.1 Detailed estimate of a RCC slab culvert with right angled wing walls bar bending schedule. |
| 2ND | 25/10/2021 | 1 | 1.1 Continued |
| 26/10/2021 | 2 | 1.1 Continued |
| 27/10/2021 | 1 | 1.1 Continued |
| 3RD | 01/11/2021 | 1 | 1.2 RCC Hume pipe culvert with splayed angled wing wall |
| 02/11/2021 | 2 | 1.2 Continued |
| 03/11/2021 | 1 | 1.2 Continued |
| 4TH | 08/11/2021 | 1 | 2. Estimate of irrigation structures |
| 09/11/2021 | 2 | 2.1Detailed estimate of simple type of vertical fall to given specification |
| 10/11/2021 | 1 | Continued |
| 5TH | 15/11/2021 | 1 | 2.2Detailed estimate of drainage siphon to given specification. |
| 16/11/2021 | 2 | 2.2 Continued |
| 17/11/2021 | 1 | 2.2 Continued |
| 6TH | 22/11/2021 | 1 | 3. Detailed estimate of roads |
| 23/11/2021 | 2 | 3.1Detail estimate of a water bound macadam road |
| 24/11/2021 | 1 | 3.2Detailed estimate of a flexible pavement in cutting / filling |
| 7TH | 29/11/2021 | 1 | **Class test** |
| 30/11/2021 | 2 | 3.2 Detailed estimate of septic tank and soak pit for 50 users |
| 8TH | 01/12/2021 | 1 | Internal Assessment |
| 9TH | 06/12/2021 | 1 | 4. Miscellaneous estimates  4.1 Tube well, Piles and Pile cap, Isolated and combined footings. |
| 07/12/2021 | 2 | 5. PWD Accounts works 5.1 Works 5.1.1 Classification of work-original, major, petty, repair work, annual repair, special repair, quadrantal repair. |
| 08/12/2021 | 1 | 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 |
| 10TH | 13/12/2021 | 1 | 5.2 Accounts of works – 5.2.1 Explanation of various terms Administrative approval, technical sanction, |
| 14/12/2021 | 2 | tender, preparation of notice inviting tender, quotations, earnest money, E-tendering, security deposit, advance payment, intermediate payment, final payment, running bill, |
| 15/12/2021 | 1 | final bill, regular and temporary establishment, cash, |
| 11TH | 20/12/2021 | 1 | major & subhead of account, temporary advance (imprest money), |
| 21/12/2021 | 2 | 5.2.3 Muster roll : Its preparation & use for making payment of pay & wages |
| 22/12/2021 | 1 | 5.2.4 Acquittance Roll : Its preparation & use for making payment of pay & wages |
| 12TH | 27/12/2021 | 1 | 5.2.5 Labour&labour report, method of labour payment, use of forms and necessity of Submission |
| 28/12/2021 | 2 | 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 excess. |
| 29/12/2021 | 1 | **Class test** |
| 13TH | 03/01/2022 | 1 | 5.3 Building BYLAWS and REGULATORY Bodies, Development authorities, types and their levels, RERA etc. |
| 04/01/2022 | 2 | CLASS TEST |
| 05/01/2022 | 1 | REVISSION |