BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK

 DEPARTMENT OF CIVIL ENGINEERING



LESSON PLAN

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| SUBJECT: ESTIMATION & COST EVALUATION-1 (TH 4) | ACCADEMIC SESSION: 2021-22 |
| FACULTY: ABINASH PANDA | SEMESTER: 3 RD  |
|  | SEC: B |

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| Sd/- |
| H O D (Civil Engg.) |

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| **Descipline**Civil engineering | **Semester- 3rd** |

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| NAME OF THE TEACHING FACULTY | **ABINASH PANDA** |

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| SubjectESTIMATION & COST EVALUATION-1 | **No of Days / per week class allotted :04 period per week**Wedness-2p,Thurs -1p, Saturday-1p | **Semester starts from date -01/10/2021 to date 08/01/2022****No of weeks : 13 weeks** |
| **Week** | **Class date** | **No of period available** | **Topics to be covered** |
| 1ST | 07/10/2021 | 1 | **1.Introduction**1.1.Types of estimates – Plinth area, floor area / carpetarea |
| 2ND | 21/10/2021 | 1 | 1.2.Units and modes of measurements as per IS12001.3. Accuracy of measurement for different item ofwork |
| 23/10/2021 | 1 | **2.0.Quantity Estimate of Building**2.1. Short wall long wall method and centre line method |
| 3RD | 27/10/2021 | 2 | 2.1.deductions in masonry, plastering, white washing, painting etc., multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grillsetc. |
| 28/10/2021 | 1 | 2.2. Detailed estimate of single storied flat roof building with shallow foundation andRCCroofslabwithleakprooftreatmentoveritincludingstaircaseand mumty room. |
| 30/10/2021 | 1 | 2.2.Monthly test |
| 4th | 03/11/2021 | 2 | 2.2. Detailed estimate of single storied flat roof building with shallow foundation andRCCroofslabwithleakprooftreatmentoveritincludingstaircaseand mumty room. |
| 06/11/2021 | 1 | 2.2. Detailed estimate of single storied flat roof building with shallow foundation andRCCroofslabwithleakprooftreatmentoveritincludingstaircaseand mumty room. |
| 5th | 10/11/2021 | 2 | 2.2. Detailed estimate of single storied flat roof building with shallow foundation andRCCroofslabwithleakprooftreatmentoveritincludingstaircaseand mumty room. |
| 11/11/2021 | 1 | 2.2. Detailed estimate of single storied flat roof building with shallow foundation andRCCroofslabwithleakprooftreatmentoveritincludingstaircaseand mumty room. |
| 13/11/2021 | 1 | 2.2. Detailed estimate of single storied flat roof building with shallow foundation andRCCroofslabwithleakprooftreatmentoveritincludingstaircaseand mumty room. |
| 6TH | 17/11/2021 | 2 | 2.2. Detailed estimate of single storied flat roof building with shallow foundation andRCCroofslabwithleakprooftreatmentoveritincludingstaircaseand mumty room. |
| 18/11/2021 | 1 | 2.2. Detailed estimate of single storied flat roof building with shallow foundation andRCCroofslabwithleakprooftreatmentoveritincludingstaircaseand mumty room. |
| 20/11/2021 | 1 | 2.2. Detailed estimate of single storied flat roof building with shallow foundation andRCCroofslabwithleakprooftreatmentoveritincludingstaircaseand mumty room. |
| 7TH | 24/11/2021 | 2 | 2.2. Detailed estimate of single storied flat roof building with shallow foundation andRCCroofslabwithleakprooftreatmentoveritincludingstaircaseand mumty room. |
| 25/11/2021 | 1 | 2.2. Detailed estimate of single storied flat roof building with shallow foundation andRCCroofslabwithleakprooftreatmentoveritincludingstaircaseand mumty room. |
| 27/11/2021 | 1 | Monthly test |
| 8TH | 01/12/2021 | 2 | INTERNAL ASSESSMENT |
| 02/12/2021 | 1 | INTERNAL ASSESSMENT |
| 04/12/2021 | 1 | **3.0. Analysis of Rates and Valuation****3.1.**Analysis of rates for cement concrete, brick masonry in Cement Mortar, laterite stone masonry in Cement Mortar ,cement plaster, white washing, Artificial Stone flooring |
| 9TH | 08/12/2021 | 2 | 3.1. Analysis of rates for Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel |
| 09/12/2021 | 1 | 3.1. Analysis of rates for Painting of doors and windows etc. as per OPWD. |
| 11/12/2021 | 1 | 3.2. Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system (Concept of C.P.W.D./Railwaysprovisions) |
| 10TH | 15/12/2021 | 2 | 3.2. Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system (Concept of C.P.W.D./Railwaysprovisions) |
| 16/12/2021 | 1 | 3.2. Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system (Concept of C.P.W.D./Railwaysprovisions |
| 18/12/2021 | 1 | 3.3. Abstract of cost ofestimate. |
| 11TH | 22/12/2021 | 2 | 3.4. Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund |
| 23/12/2021 | 1 | 3.4. depreciation and obsolesce, methods ofvaluation |
| 12TH | 29/12/2021 | 2 | 4. **Administrative Set-Up of engineering Organisations:**4.**1.** Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors etc |
| 30/12/2021 | 1 | MONTHLY TEST |
| 13TH | 05/01/2022 | 2 | 4.1 .Duties and responsibilities of Engineers at different positions /levels |
| 06/01/2022 | 1 | CLASS TEST |
| 08/01/2022 | 1 | REVISSION |