BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK

DEPARTMENT OF CIVIL ENGINEERING



LESSON PLAN

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| SUBJECT: ESTIMATION &COST EVALUATION-I (TH 4) | ACCADEMIC SESSION: 2021-22 |
| FACULTY: SANGITA MOHANTY | SEMESTER: 3 RD |
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| H O D (Civil Engg.) |

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| **Discipline: Civil Engineering** | **Semester: 3rd** | | **Name of teaching faculty:**  **SANGITA MOHANTY** |
| **Subject: Estimation &Cost Evaluation-I** | **No of days /per week class allotted: 04 periods per week.**  **(Thu-2 period & Sat-2 period)** | | **Semester From Date: 01-10-2021 To Date: 08-01-2021**  **No of weeks: 14 weeks** |
| **Week** | **Date** | **No of period available** | **Topics to be covered** |
| 1st | 07/10/2021 | 2 | * 1. **Introduction**   1.1 Types of estimates – Plinth area, floor area / carpet area |
| 2nd | 21/10/2021 | 2 | 1.2 Units and modes of measurements as per IS1200 |
| 23/10/2021 | 2 | 1.3 Accuracy of measurement for different item of work |
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| 3rd | 30/10/2021 | 2 | CLASS TEST |
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| 4th | 06/11/2021 | 2 | 2.0 Quantity Estimate of Building  2.1.Short wall long wall method and centre line method |
| 5th | 11/11/2021 | 2 | 2.2.Deductions in masonry, plastering, white washing, painting etc., multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc. Detailed estimate of single storied flat roof building with shallow foundation and RCC roof slab with leak proof treatment over it including stair case and mumty r |
| 13/11/2021 | 2 | 2.2 Brick work in foundation and plinth, DPC.Earthwork excavation, Concrete work in foundation. Brick work in supper structure, plastering, RCC work . |
| 6th | 18/11/2021 | 2 | 2.2 Wood work calculation, painting. Practice of another building estimate. |
| 20/11/2021 | 2 | CLASS TEST |
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| 7TH | 25/11/2021 | 2 | 2.2.Continued |
| 27/11/2021 | 2 | 2.2.Continued |
| 8TH | 2/12/2021 | 2 | 2.2. Internal Assessment |
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| 9TH | 09/12/2021 | 2 | **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 |
| 11/12/2021 | 2 | **3.1.**Analysis of rates for cement plaster, white washing, Artificial Stone flooring. Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system (Concept of C.P.W.D./Railways provisions). Abstract of cost of estimate |
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| 10TH | 23/12/2021 | 2 | 3.2. Analysis of rates for Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel. Analysis of rates for Painting of doors and windows etc. As per OPWD Calculation of lead, lift, Conveyance charges, royality of materials etc(Concept of CPWD/ Railway Provision). |
| 11TH | 30/12/2021 | 2 | CLASS TEST |
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| 12TH | 06/01/2022 | 2 | 3.4.Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund. Depreciation and obsolesce, methods of valuation |
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| 13TH | 08/01/2022 | 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.Duties and responsibilities of Engineers at different positions /levels. |
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