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: SRI ABHIJIT SAHOO | SEMESTER: 3 RD |
|  | SEC: A |

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| H O D (Civil Engg.) |

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| **Discipline: Civil Engineering** | **Semester: 3rd** | | **Name of teaching faculty:**  **SRI ABHIJIT SAHOO** |
| **Subject: Estimation &Cost Evaluation-I** | **No of days /per week class allotted: 04 periods per week.**  **(Tue ,Fri -1 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 | 01/10/2021 | 1 | * 1. **Introduction**   1.1 Types of estimates – Plinth area, floor area / carpet area |
| 2nd | 05/10/2021 | 1 | 1.1 Continued |
| 08/10/2021 | 1 | 1.2 Units and modes of measurements as per IS1200 |
| 09/10/2021 | 2 | 1.3 Accuracy of measurement for different item of work |
| 3rd | 22/10/2021 | 1 | **2.0 Quantity Estimate of Building**  2.1.Short wall long wall method and centre line method |
| 23/10/2021 | 2 | 2.1.Short wall long wall method and centre line method |
| 4th | 26/10/2021 | 1 | 2.1.Deductions in masonry, plastering, white washing, painting etc., multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc. |
| 29/10/2021 | 1 | 2.2. 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 room. |
| 30/10/2021 | 2 | **Class test** |
|  | 02/11/2021 | 1 | 2.2. Earthwork excavation, Concrete work in foundation. |
| 5th | 05/11/2021 | 1 | 2.2. Brick work in foundation and plinth, DPC. |
| 06/11/2021 | 2 | 2.2 Brick work in supper structure, plastering, RCC work . |
| 6th | 09/11/2021 | 1 | 2.2 Wood work calculation, painting. |
| 12/11/2021 | 1 | 2.2 Practice of another building estimate. |
| 13/11/2021 | 2 | 2.2 Continued |
| 7TH | 16/11/2021 | 1 | 2.2.Continued |
| 20/11/2021 | 2 | 2.2.Continued |
| 8TH | 23/11/2021 | 1 | 2.2.Continued |
| 26/11/2021 | 1 | 2.2Continued |
| 27/11/2021 | 2 | **Class test** |
| 9TH | 30/11/2021 | 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 |
| 03/12/2021 | 1 | **Internal Assessment** |
| 04/12/2021 | 2 | 3.1.Analysis of rates for cement plaster, white washing, Artificial Stone flooring |
| 10TH | 07/12/2021 | 1 | 3.1.Analysis of rates for Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel |
| 10/12/2021 | 1 | Analysis of rates for Painting of doors and windows etc. as per OPWD. |
| 11/12/2021 | 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./ Railways provisions) |
| 11TH | 14/12/2021 | 1 | 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) |
| 17/12/2021 | 1 | 3.2. Continued |
| 18/12/2021 | 2 | 3.3 Abstract of cost of estimate. |
| 12TH | 21/12/2021 | 1 | 3.4.Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund |
| 24/12/2021 | 1 | 3.4.Depreciation and obsolesce, methods of valuation |
| 13TH | 28/12/2021 | 1 | 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 |
| 31/12/2021 | 1 | CLASS TEST |
| 01/12/2021 | 2 | 4.1 Duties and responsibilities of Engineers at different positions /levels. |
| 14TH | 04/01/2022 | 1 | 4.1.Continued |
| 07/01/2022 | 1 | REVISSION |
| 08/01/2022 | 2 | REVISSION |