

ACADEMIC SESSION: WINTER-2023

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| Discipline :civil engg. | Semester: 3rd | Name of the Teaching Faculty : subhasmita behera |
| Subject: Estimation and cost evaluation-I | No. of Days / Week class allotted: 4 | Semester Duration: 1/08/2023 to 30/11/2023 No. of Weeks : 17 |
| Week | Class day | Theory/Practical Topics: |
| 1 st | 1 st | Types of estimates – Plinth area, floor area / carpet area |
| | 2 nd | Units and modes of measurements as per IS 1200 |
| | 3 rd | Accuracy of measurement for different item of work |
| | 4 th | Short wall long wall method |
| 2 nd | 1 st | centre line method |
| | 2 nd | problems |
| | 3 rd | deductions in masonry |
| | 4 th | problems |
| 3 rd | 1 st | Deductions in plastering. |
| | 2 nd | problems |
| | 3 rd | Deductions in white washing |
| | 4 th | problems |
| 4 th | 1 st | Detailed estimate of single room building |
| | 2 nd | Detailed estimate of single room building with dpc, brick work in superstructure |
| | 3 rd | Detailed estimate of single room building with deduction |
| | 4 th | Problem of book analysis |
| 5 th | 1 st | Deductions in painting |
| | 2 nd | problems |
| | 3 rd | multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc |
| | 4 th | problems |
| 6 th | 1 st | Detailed estimate double storied flat roof building with shallow foundation. |
| | 2 nd | problems |
| | 3 rd | problems |
| | 4 th | RCC roof slab with leak proof treatment over it including staircase and mumty room |
| 7 th | 1 st | problems |
| | 2 nd | Class test |
| | 3 rd | Analysis of rates for cement concrete |
| | 4 th | Problems |
| 8 th | 1 st | problems |
| | 2 nd | brick masonry in Cement Mortar |
| | 3 rd | Problems |
| | 4 th | laterite stone masonry in Cement Mortar |

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| 9 th | 1 st | Problems |
| | 2 nd | cement plaster and white washing. |
| | 3 rd | problems |
| | 4 th | Artificial Stone flooring |
| 10 th | 1 st | Problems |
| | 2 nd | Tile flooring |
| | 3 rd | Problems |
| | 4 th | concrete flooring |
| 11 th | 1 st | Problems |
| | 2 nd | R.C.C. with centering and shuttering, reinforcing steel |
| | 3 rd | problems |
| | 4 th | Painting of doors and windows etc. as per OPWD |
| 12 th | 1 st | problems |
| | 2 nd | 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) |
| | 3 rd | Problems |
| | 4 th | Abstract of cost of estimate. |
| 13 th | 1 st | DURGA PUJA HOLIDAY |
| | 2 nd | |
| | 3 rd | |
| | 4 th | |
| 14 th | 1 st | Valuation- Value and cost, |
| | 2 nd | scrap value ,salvage value |
| | 3 rd | assessed value, sinking fund |
| | 4 th | depreciation and obsolesce |
| 15 th | 1 st | methods of valuation |
| | 2 nd | Problems |
| | 3 rd | Administrative set-up and hierarchy of Engineering department in State Govt. |
| | 4 th | Administrative set-up and hierarchy of Engineering department in Central Govt./PSUs/Private Sectors etc |
| 16 th | 1 st | Duties and responsibilities of Engineers at different positions /levels. |
| | 2 nd | Class test |
| | 3 rd | Class test question discussion |
| | 4 th | Doubt clearing |
| 17 th | 1 st | Previous semester question paper discussion |
| | 2 nd | Previous semester question paper discussion |
| | 3 rd | Previous semester question paper discussion |
| | 4 th | revision |

Prepared by

Subhasmita Behara

Approved by

11/8/23
HOD (Civil)

Govt. Polytechnic, Sonepur