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| LESSON PLAN OF 4TH SEMESTER(2016-19) CIVIL ENGINEERING |
| Discipline :-CIVIL  | Semester:-4TH  | Name of the Teaching Faculty |
| Subject:-Estimating and cost evaluation-I | No of Days/per Week Class Allotted :-04 | Semester From:- **02ND JAN,2019** To:- **15TH APRIL, 2019** No of Weeks:- **14** |
| **Week** | **Class Day** | **Theory/ Practical Topics** |
| 1st | 1st | 1.0 INTRODUCTION : 1.1 Types of estimates – Plinth area, floor area / carpet area |
| 2nd | 1.2 Units and modes of measurements as per IS 1200 1.3 Accuracy of measurement for different item of work |
| 3rd | 2.0QUANTITY ESTIMATE OF BUILDING 2.1 Short wall long wall method and centre line method |
| 4th |  Problems  |
| 2nd | 1st | deductions in masonry,  |
| 2nd | Problems |
| 3rd | plastering, |
| 4th | Problems |
| 3rd | 1st | white washing,  |
| 2nd | Problems |
| 3rd | painting etc., multiplying factor |
| 4th | Problems |
| 4th | 1st | painting etc., |
| 2nd | for painting of doors and windows (paneled/glazed), grills etc. as per OPWD scheduled of rates.  |
| 3rd | Problems |
| 4th | Problems |
| 5th | 1st | Problems |
| 2nd | Problems |
| 3rd | Detailed estimate of single storied flat roof building with shallow foundation and  |
|  | 4th  | Problems |
| 6th  | 1st | Problems |
| 2nd | RCC roof slab with leak proof treatment over it including |
| 3rd | Problems |
| 4th | Problems |
| 7th | 1st | 2.3Detailed estimate of a simple inclined roof building with gabled / hipped roof |
| 2nd | Problems  |
| 3rd | Problems |
| 4th | and A.C. sheet / G.C.I. sheet roofing. |
| 8th | 1st | Problems |
| 2nd | Problems |
| 3rd | Problems |
| 4th | 3.0ANALYSIS OF RATES AS PER OPWD SPECIFICATIONS / STANDARDS  3.1 Analysis of rates for cement concrete |
| 9th | 1st | Problems |
| 2nd | Problems |
| 3rd | Problems |
| 4th | brick masonry in Cement Mortar |
| 10th | 1st | Problems |
| 2nd | laterite stone masonry in Cement Mortar , |
| 3rd | Problems |
| 4th | Problems |
| 11th | 1st | cement plaster |
| 2nd | Problems |
| 3rd |  white washing ,Artificial Stone flooring, |
| 4th | Problems |
| 12th | 1st | concrete flooring, |
| 2nd | Problems |
| 3rd | R.C.C. with centering and shuttering, reinforcing steel, |
| 4th | Problems |
| 13th | 1st | Painting of doors and windows etc |
| 2nd | Problems |
| 3rd | 3.2Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system  |
| 4th | 3.3 Abstract of cost of estimate.  |
| 14th | 1st | 4.0 ADMINISTRATIVE SET-UP OF ENGINEERING ORGANISATIONS |
| 2nd | 4.1Administrative set-up and hierarchy of Engineering Deptt. Duties of responsibilities of Engineers at different positions /levels |
| 3rd | DOUBT CLEARING CLASSES |
| 4th | PREVIOUS YEAR QUESTION DISCUSSION |