

MYMENSINGH POLYTECHNIC INSTITUTE
TECHNOLOGY: CIVIL
Outline Plan of On line Teaching (Semester Plan)

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| Subject Name: Estimating and Costing-II |
| Subject Code: 66455 |
| Semester : 5th , Shift: 1st & 2nd |

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| T | 2 Nos theory class per week |
| P | 3 Period practical class per week |
| C | 3 Credit hour & 1 Credit 50 Mark |

| Week | Theory | | Learning Materials | Practical Job No | Practical | |
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| | Content | | | | Content | |
| | Specific Objectives | | | | Practical Name | |
| 1 | Understand the components and item of works of Multi- storied framed structure. building. Understand the earth work, brick flat soling and cement concrete in foundation and plinth. | 1.1---1.3 & 2.1-2.5 | MARKER PEN, WHITE BOARD, MULTIMEDIA CONTENT & YOU TUBE CONTENT | 1 | Introducing to different equipment which is required to perform practical experiment. | |
| 2 | Understand the reinforced cement concrete work in different items of building | 3.1---3.4 | | 2 | Expt No:- 01 Estimate the earth work in excavation and earth filling for foundation trenches. | |
| 3 | Understand the brick work and cement plaster work in foundation and superstructure. Understand the wood work in different types of doors and windows with grill works. | 4.1---4.3 & 5.1-5.9 | | 3 | Expt No:- 02 & Expt No:- 03 2.Estimate the brick flat soling & mass concrete in foundation and floor. 3.Estimate the reinforced cement concrete work in foundation up to plinth level. | |
| 4 | Understand the patent stone flooring, mosaic work, tiles & skirting. Understand the lime terracing work over RCC roof slab. | 6.1---6.5 & 7.1-7.3 | | 4 | Expt No:- 04 Estimate the reinforced cement concrete work in superstructure. | |
| 5 | Understand the surface finishing works of building. | 8.1---8.9 | | 5 | Expt No:- 05 Estimate the brick work in sub-structure (foundation up to plinth level) and | |
| 6 | Understand the estimate of septic tank. | 9.1---9.7 | | 6 | Expt No:- 06 Estimate the cement plaster work on brick walls and RCC surfaces. | |
| 7 | Understand the estimate of RCC retaining wall and RCC culvert. | 10.1-10.8 | | 7 | Expt No:- 07 & Expt No:- 08 7. Estimate the wood and steel work in door and window frames and shutters. 8. Estimate the grill works. | |
| 8 | Understand the estimate of roof truss (wooden & steel). | 11.1-11.9 | | 8 | Expt No:- 09 & Expt No:- 10 9.Estimate the patent stone flooring, mosaic work, tiles & skirting. 10. Estimate the lime terracing over RCC roof slab. | |
| 9 | Understand the estimation of steel structure (vertical iron column). Understand the estimation of plumbing and sanitary works. | 12.1-12.4 & 13.1-13.3 | | 9 | Expt No:- 11 Estimate the quantity of white wash, color wash, snowcem wash, distemper, plastic paint where necessary. | |
| 10 | Understanding the process of analysis of rates of various items of work as per PWD standard. | 14.1-14.4 | | 10 | Expt No:- 12 & Expt No:- 13 12. Estimate the painting and varnishing works to doors, windows, grills and skirting. 13. Prepare an estimate of a septic tank and soak well with allied connections & fixtures. | |
| 11 | Understand the preliminary estimate for building project work according to plinth area rate. | 15.1-15.3 | | 11 | Expt No:- 14 Prepare an estimate of a RCC slab culvert and two span box culverts. | |
| 12 | Understand the public works account and forms. | 16.1-16.9 | | 12 | Expt No:- 15 Prepare an estimate of a RCC retaining wall. | |
| 13 | Understand valuation of property and building. | 17.1-17.3 | | 13 | Expt No:- 16 Prepare an estimate of a wooden truss with CI sheet roofing. | |
| 14 | Understand valuation of property and building. | 17.4-17.7 | | 14 | Expt No:- 17 Prepare an estimate of a steel truss with CI sheet roofing. | |
| 15 | REVIEW CLASS | | | 15 | Expt No:- 18 & Expt No:- 19 18. Prepare the cost of abstract of wooden & steel roof truss. 19. Prepare an estimate of a steel structure. | |
| 16 | REVIEW CLASS | | | 16 | EVALUATION | |