

## Lesson Plan - Construction Practice and MS Project (S-26)

Total Contact Hours: 75 Hours

Weekly Practical Period: 5 Periods/Week

Duration: 15 Weeks

**FACULTY - Smt Bijayalaxmi Hembram and Smt Smitarani Patel**

| Week    | Hours | Topic / Practical Covered  | Teaching-Learning Activity                   |
|---------|-------|--|--|
| Week 1  | 5 Hrs | Study of construction tools required for masonry work; identification and uses of tools                      | Lecture, demonstration and tool handling     |
| Week 2  | 5 Hrs | Preparation and study of layout plan of a building   | Drawing practice and explanation             |
| Week 3  | 5 Hrs | Construction of 1 and 1½ brick thick walls in English Bond using mud mortar including corner                 | Demonstration and practical work             |
| Week 4  | 5 Hrs | Construction of 1 and 1½ brick thick pillar in mud mortar  | Practical construction activity              |
| Week 5  | 5 Hrs | Bar bending and fabrication of reinforcement for beam  | Demonstration and hands-on practice          |
| Week 6  | 5 Hrs | Bar bending and fabrication of reinforcement for slab  | Practical fabrication work                   |
| Week 7  | 5 Hrs | Bar bending and fabrication of reinforcement for lintel with chajja and column                               | Practical work and supervision               |
| Week 8  | 5 Hrs | Non-destructive compressive strength test of concrete beam using rebound hammer as per IS 1311 (Part-2)-1992 | Laboratory demonstration and testing         |
| Week 9  | 5 Hrs | Study of pipe joints and plumbing fixtures   | Demonstration and identification of fixtures |
| Week 10 | 5 Hrs | Field visit:   | Site visit and report                        |

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|         |       | excavation, masonry, plumbing, painting, wood work, fabrication, concreting and flooring works                  | preparation                              |
| Week 11 | 5 Hrs | Introduction to Microsoft Project: project management concept, features and scheduling for engineering projects | Computer demonstration                   |
| Week 12 | 5 Hrs | Creating project plan: new project information, blank project and existing project creation                     | Software practice                        |
| Week 13 | 5 Hrs | Basics of MS Project: project estimation, tasks and resources   | Computer laboratory practice             |
| Week 14 | 5 Hrs | Tracking project progress and project reporting   | Software exercises and report generation |
| Week 15 | 5 Hrs | Custom views and fields in MS Project; revision and assessment  | Practical evaluation and viva            |

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