

AMID-22 ESTIMATION AND PROJECT MANAGEMENT

Course overview:

The course deals with –

- Methods for working out quantities and costs to make an estimate of the project with all specifications.
- Management of the projects based on time and budget.

Objectives of the course:

To equip the students with the basic understanding of –

- Working out quantities of different materials and their costs to prepare an estimate of the project before execution.
- Preparation of schedule of charts for time and budget, to have a control over the project.

Expected skills/ knowledge Transferred:

The student should develop techniques of -

- estimating and costing related to the interior projects.
- preparing schedules of time and budget for the projects to execute efficiently.

Course Content: Unit –

I

Types of measurements, modes of measurements : methods of taking out quantities preparation of schedule or bill of quantities.

Unit – II

Rate analysis of various items of work: preparation of various items of work in the interior works.

Unit – III

SI measurements system, SI nomenclature methods. Dimensional and modular coordination, modules and modes of measurements practiced by various agencies. Specification types, specification contents, standards developed by trade and industry, government agencies.

Unit – IV

Estimating interior items manually and through spreadsheet programmes. Specification writing proforma, order writing , scheduling etc.

Unit – V

Introduction to project management – Definitions and meanings, Importance, Reasons or shortfall in its

performance, scientific management, life cycle of project.

Unit – VI

Planning and control, Human aspects, Development of project network. Critical path, PERT and CPM. Project organization. Contracting, Procurement and Recruitment budget and fund flow statement. Stabilization and finish. Organization of project : matrix organization, task forces, project teams: monitor and control of project. Project management strategies: Tools and techniques for project management. Classical persuasive and non persuasive strategies and techniques. New techniques of management by objectives (MBO). Integrated reporting system, flow diagrams, bar charts, milestone charts, CPM and PERT. Techniques of monitoring of development works – standard oriented costs control, turnkey system, vertical production method, inventory cost control techniques and unified status, index techniques.

Reference Books:

- Carol Simpson, Estimating for Interior Designers, Watson Guptill, Rev. Sub edition, 2001. • Carol E Farren, Planning and Managing Interior projects, Robert Snow Means Company, 2000.
- Barbori Balboni, Interior Cost Data, R.S. Means company, 2001.
- Harold Kerzner, Project Management : A systems approach to planning, scheduling and controlling, 2006