

4ME48: PROJECT MANAGEMENT
CREDITS - 3 (LTP: 3, 0, 0)

Course Objective:

To illustrate Project management practices

Teaching and Assessment Scheme:

Teaching Scheme (Hours per Week)			Credits	Assessment Scheme				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE	CE	ESE	CE	100	
3	0	0	3	60	40	0		0

Course Contents:

Unit No.	Topics	Teaching Hours
1	Introduction to project management: Project management vs general management, life cycle of projects, selection of projects to meet organizational goals. Types of Projects, Government Regulatory Framework, Market Analysis, Technical Analysis. Management of the organization & the team: the project manager's role, responsibilities; selection of a project manager, projects & organization.	08
2	Planning the project: The planning process, work break down structure, multidisciplinary teams. Budgeting the project: methods of budgeting, cost estimating & its improvement, budget uncertainty & risk management. Brief idea on Project Financing. Project cash flow, Financial estimates and Projections, cost of capital.	08
3	Scheduling the project: CPM & PERT networks, project uncertainty & risk management, Gantt chart, Use of computer aided tools for the analysis.	08
4	Allocating resources to the project: Expediting a project, resource loading & levelling, allocating resources to projects, Goldratt's critical chain.	08
5	Monitoring & controlling the project: The plan-monitor-control cycle, data collecting and reporting, earned value, project control, designing the control system, scope creep & change control.	05
6	Project Execution. Various phases of project execution, Timely execution of project, various statutory approvals, OH & S (Occupational Health and Safety) aspects during project execution, Case Study Evaluating & terminating the project: Evaluation, project auditing, and project termination. Project quality assurance. Microsoft project	05
Total		42

List of References:

1. Samuel J Mantel Jr., Jack R Meredith, Scott M Shafer, Margaret M Sutton, M R Gopalan, “*Project Management*”, Wiley India Pvt. Ltd.
2. Eliyahu M. Goldratt, “*Critical Chain: A Business Novel*”, North River Press 1997.
3. Dr. B. C. Punmia, K. K. Khandelwal “*Project Planning and Control with PERT and CPM*”, Laxmi Publication (P) Ltd.
4. Chandra Prasanaa – *Projects-Planning analysis, Selection,Implementation and Review* –Tata Mcgrow-Hill-

Course Outcomes (COs):

At the end of this course students will be able to ...

1. Appraise project manager’s role
2. Apply the concepts of project planning and budgeting
3. Apply the concepts of scheduling of projects
4. Apply the concepts of allocation of resources to projects
5. Apply methods of monitoring of projects
6. Appraise how to evaluate and terminate projects