

ME498: PROJECT MANAGEMENT
CREDITS = 3 (L=3, T=0, P=0)

Course Objective: To explain how to apply the proven management tools and techniques at each stage in a projects life cycle

Teaching and Assessment Scheme:

| Teaching Scheme | | | Credits | Assessment Scheme | | | | |
|-----------------|---|---|---------|-------------------|-----|-----------|---|-------------|
| L | T | P | | Theory | | Practical | | Total Marks |
| | | | ESE | CE | ESE | CE | | |
| 3 | 0 | 0 | 3 | 70 | 30 | 0 | 0 | 100 |

Course Contents:

| Unit No. | Topics | Teaching Hours |
|----------|---|----------------|
| 1 | <u>Introduction to project management:</u> Project management vs general management, life cycle of projects, selection of projects to meet organizational goals. Management of the organization & the team: the project manager's role, responsibilities; selection of a project manager, projects & organization. | 08 |
| 2 | <u>Planning the project:</u> The planning process, work break down structure, multidisciplinary teams. Budgeting the project: methods of budgeting, cost estimating & its improvement, budget uncertainty & risk management. | 08 |
| 3 | <u>Scheduling the project:</u> PERT & CPM networks, project uncertainty & risk management, simulation, Gantt chart, extensions to PERT/CPM. | 08 |
| 4 | <u>Allocating resources to the project:</u> Expediting a project, resource loading & levelling, allocating resources to projects, Goldratt's critical chain. | 08 |
| 5 | <u>Monitoring & controlling the project:</u> The plan-monitor-control cycle, data collecting and reporting, earned value, project control, designing the control system, scope creep & change control. | 05 |

| Unit No. | Topics | Teaching Hours |
|-----------------|--|-----------------------|
| 6 | <u>Evaluating & terminating the project:</u> Evaluation, project auditing, and project termination. Project quality assurance. | 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

Course Outcomes (COs):

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