

**ME471: PROJECT MANAGEMENT**  
**CREDITS = 5 (L=3, T=2, 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	2	0	5	70	30	30	20	150

**Course Contents:**

Unit No.	Topics	Teaching Hours
1	<b><u>Introduction to project management:</u></b> 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	<b><u>Planning the project:</u></b> 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	<b><u>Scheduling the project:</u></b> PERT & CPM networks, project uncertainty & risk management, simulation, Gantt chart, extensions to PERT/CPM.	08
4	<b><u>Allocating resources to the project:</u></b> Expediting a project, resource loading & levelling, allocating resources to projects, Goldratt's critical chain.	08

<b>Unit No.</b>	<b>Topics</b>	<b>Teaching Hours</b>
5	<b><u>Monitoring &amp; controlling the project:</u></b> The plan-monitor-control cycle, data collecting and reporting, earned value, project control, designing the control system, scope creep & change control.	05
6	<b><u>Evaluating &amp; terminating the project:</u></b> Evaluation, project auditing, and project termination. Project quality assurance.	05
<b>TOTAL</b>		<b>42</b>

**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):**

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 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