

## 4/4 B.TECH-EIGHTH SEMESTER

EC8T3A

Project Management

Credits: 3

Lecture : 3 periods/week

Internal Assessment: 30 Marks

Tutorial: 1 period /week

Semester End Examination: 70 Marks

---

**Prerequisites:-----**

**Course objectives:**

- To understand the phases in a Project Life Cycle
- Allocation of resources for different activities while planning a project.
- To analyze the working competence in the use of MS Project.

**Learning outcomes:**

Student will be able to

- Evaluate and select the most desirable projects.
- Develop a suitable budget planning
- Identify important risks involved in a new project.
- Analyze appropriate methodologies to develop a project schedule.

### UNIT I

**Concepts of Project Management & Organizational Capability:** Concepts of project management, categories, project life cycles, Roles and phases, tools and techniques. Types of organizational structures, cultures and its impacts on projects, project management roles

### UNIT II

**Quality Management:** Quality concepts, project management plan, project quality tools, failure modes and effect analysis, Introduction to CMMI

### UNIT III

**Six Sigma:** DMAIC methodology, project quality tools, 7-S of project management, problem solving and decision making, improving project performance and six sigma tools.

### UNIT IV

**Scheduling projects:** Project time process management, purpose of project schedule, defining activities, sequence activities, develop project schedules, working with gantt chart, estimate resource needs, assigning resource to activity, using MS project for resource allocation

## UNIT V

**Risk Management:** Risk identification, risk analysis, risk management planning. Cost planning and estimation, establishing cost control, Work Break Down Structure (WBS):Definition of scope, Scope planning, work breakdown structure, using MS project for work breakdown structures, case study on “inventory system”

### Learning Resources

#### Text Books:

1. Project management – S. Choudhary, Tata Mc.Grawhill – 2000.
2. Contemporary project management, Timothy J. Kloppenborg, Cengage learning, India Edition,2009

#### References:

1. Project management – Harvey Maylor, Pearson, 3rd edition, 2004
2. Project management – Gido l Clements, Cengage learning, 2007
3. The six sigma project planner – Thomas Pyzdek, Tata Mc. Grawhill, 2003

#### Web Resources:

1. [https://www.projectmanager.com/projectmanagementonline.php?gclid=CNbO86-E2MQCFdYXjgodIXAA\\_A](https://www.projectmanager.com/projectmanagementonline.php?gclid=CNbO86-E2MQCFdYXjgodIXAA_A)
2. <http://www.gantt.com/>
3. <https://www.smartsheet.com/solutions/project-management>