

| ME415 Project Management | | | | | | | | | | |
|--------------------------|-----|-----|--------|---------|--|-------|-----|-------|-------|-----|
| L | T | P | Credit | Area | | CWS | PRS | MTE | ETE | PRE |
| 3 | 0/1 | 2/0 | 4 | DEC/GEC | | 15/25 | 25 | 20/25 | 40/50 | - |

Objectives: To enable the students to understand the basics of project management, project resource requirement, types of resources. To understand the concepts of project monitoring and post project reviews.

| Syllabus | | Contact Hours |
|---------------|--|---------------|
| Unit-1 | Introduction Definitions, classifications, and scope of project management; project life cycle and uncertainty. | 6 |
| Unit-2 | Project planning Scope, problem statement, project goals, objectives, success criteria, assumptions, risks, obstacles, approval process, projects and strategic planning. | 8 |
| Unit-3 | Project implementation Project resource requirement, types of resources: men, materials, finance, resource distribution. | 8 |
| Unit-4 | Project monitoring Evaluation, control, project network technique, planning for monitoring and evaluation, project audits, project management information system, Nature of project inventory, supply and transportation of materials, use of Material Requirement Planning. Project scheduling, PERT & CPM, project communication. | 6 |
| Unit-5 | Project team management Recruitment, organizing, human resources: team operating rules, project organization, various forms of project organizations, project organization charting, project contracts, principles, compilation of contracts, practical aspects, legal aspects, global tender, negotiations, insurance. | 8 |
| Unit-6 | Project completion Closing the project, types of project termination, strategic implications, project in trouble, termination strategies, evaluation of termination possibilities, termination procedures, post project reviews. | 6 |
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| Reference Book: | |
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| 1 | Beenet P Lientz, Kathryn P rea, Project Management for 21st Century, - Academic Press, ISBN 12449983X, 2001. |
| 2 | Project Management –Dennis Lock, Gower Publishing Ltd; 9th Revised edition edition; ISBN 0566087693, 2007 |
| 3 | David I Cleland, Project management, Mcgraw Hill International Edition, ISBN 0442221142,1988. |
| 4 | Gopalakrishnan, Project Management, Mcmillan India Ltd, ISBN 0333926218,1993 |

Course Outcomes

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| CO1 | Ability to understand the basics of project management |
| CO2 | Identification and formulation of various problems in project management |
| CO3 | Selection of appropriate process/tool/techniques in project management |
| CO4 | Application of knowledge in relevance to professional practice |
| CO5 | Lifelong learning in technological world |
| CO6 | Understand the concepts of demand forecasting and project management with relevant case studies. |

CO-PO/PSO Matrix

| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| CO1 | 2 | 1 | 2 | 2 | 2 | 3 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 |
| CO2 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 2 | 1 | 2 | 2 | 3 | 2 | 2 |
| CO3 | 2 | 3 | 2 | 3 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 3 |
| CO4 | 2 | 2 | 1 | 3 | 3 | 2 | 1 | 2 | 1 | 2 | 3 | 2 | 3 | 2 | 3 |
| CO5 | 1 | 2 | 3 | 1 | 2 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO6 | 2 | 2 | 1 | 3 | 3 | 2 | 1 | 2 | 1 | 2 | 3 | 2 | 3 | 2 | 3 |