

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. SEMESTER : VIII

PRODUCTION ENGINEERING

Subject Name: **MANAGING PROJECTS**

Sr. No.	Course Contents	Total Hrs
1.	The world of Project Management Definition of project, Project Management Vs. General Management, Three goals of project, The life cycle of projects, Selecting projects to meet organizational goals, Confronting Uncertainty, Project portfolio process, An approach to Project Formulation	06
2.	Organizing the project The PM's Roles, The PM's responsibility to the project, Selection of a Project Manager, Project Management as a profession, Fitting projects into the parent organization, The project team	06
3.	Planning the project The contents of a project plan, The planning process-overview, The planning process-Nuts and Bolts, The work breakdown structure and other aids, Multidisciplinary Teams-Balancing Pleasure and Pain,	08
4.	Budgeting the Project Methods of budgeting, Cost estimating, Improving Cost Estimates, Budget Uncertainty and risk management	06
5.	Scheduling the Project PERT and CPM Networks, Project uncertainty and risk management, Simulation, The Gantt chart, Extensions to PERT/CPM	08
6.	Allocating the Resources to the Project Expediting a Project, Resource Loading, Resource Leveling, Allocating Scarce resources to projects, Allocating several resources to the several projects, Goldratt's critical chain	06
7.	Monitoring and Controlling the Project The plan-monitor-control cycle, Data collection and reporting, Earned value, Project control, Designing the control system, Scope creep and change control	06
8.	Evaluating and Terminating the Project Evaluation, Project Auditing, Project Termination	04

Reference Books:

1. Project Management by Samuel J. Mantel, Jr. , Jack R. Meredith, Scott M. Shafer, Margaret M. Sutton with M. R. Gopalan (WILEY-INDIA)
2. Project Management and Appraisal by Sitangshu Khatua (Oxford)