

GUJARAT TECHNOLOGICAL UNIVERSITY
MASTERS IN TECHNOLOGICAL MANAGEMENT-MTM
DUAL DEGREE PROGRAMME
Semester – X (W.e.f. December 2015)

Subject Name: PROJECT MANAGEMENT

Subject Code: 4210103

COURSE OBJECTIVES:

- To develop an awareness of the need for project planning and management.
- To apply professional attitudes and techniques to managing a project.
- Provide students with a basic understanding of project management principles and practices.

CONTENTS:

Module No	Module Content	Marks (Weightage)
1	Introduction to Project Management – Definition of Project – Project Life Cycle – Current drivers of Project Management – Projects & Strategic Planning – Types of Strategies – Project Management Structures – What is the right Project Management Structure – Organizational Culture	(25%)
2	Project Management Generation and Screening of Project Ideas – Tools for identifying investment opportunities – Scouting for Project Ideas – Project Rating Index – Market and Demand Analysis – Conduct of Market Survey – Demand Forecasting – Technical Analysis – Product Mix – Plant Capacity – Project Charts and Layouts	(25%)
3	Estimating Project Times and Costs – Methods – Types of Costs – Refining Estimates – Managing Risk – Risk Management Process – Contingency Planning – PERT & CPM – Scheduling Resources and Costs – Types of Resource Constraints – Resource Allocation Methods – Benefits	(25%)
4	Leadership – Managing versus Leading a Project – Social Network Building – Ethics and Project Management – Managing Project Teams – Recruitment – Organizing human resources – Managing Virtual Project Teams – Outsourcing Project Work – Best Practices – Art of Negotiating	(25%)
5	Prepare a Project report under the guidance of your subject teacher on any one company which has already implemented a large scale project in previous year/s. Study the planning & organizing phases of that project.	(25 Marks of CEC)

TEXT BOOKS:

Sr. No.	Author	Name of the Text Book	Publisher	Edition
1	Clifford F. Gray, Erik W. Larson & Gautam V. Desai	Project Management: The Managerial Process	McGraw Hill Education	Latest Edition
2	Prasanna Chandra	Projects: Planning, Analysis, Selection, Financing, Implementation & Review	Tata McGraw Hill	Latest Edition

REFERENCE BOOKS:

Sr. No.	Author	Name of the Text Book	Publisher	Edition
1	Sitangshu Khatua	Project Management and Appraisal	Oxford Higher Education	Latest Edition
2	Jack Gido & James P. Clements	Project Management	Cengage Learning	Latest Edition

SCHEME OF EVALUATION:

A	Final University Exam	70 Marks
B	Mid Term Exam	30 Marks
C	CEC	50 Marks

SESSION PLAN:

The course duration is of 36 sessions of 75 minutes each i.e. 45 hours

Sessions No.	Topic
1 – 4	Introduction to Project Management – Definition of Project – Project Life Cycle – Current drivers of Project Management
5 – 8	Projects & Strategic Planning – Types of Strategies – Project Management Structures – What is the right Project Management Structure – Organizational Culture
9 – 12	Project Management Generation and Screening of Project Ideas – Tools for identifying investment opportunities – Scouting for Project Ideas – Project Rating Index

13 – 16	Market and Demand Analysis – Conduct of Market Survey – Demand Forecasting – Technical Analysis – Product Mix – Plant Capacity – Project Charts and Layouts
17 – 20	Estimating Project Times and Costs – Methods – Types of Costs – Refining Estimates – Managing Risk – Risk Management Process – Contingency Planning
21 – 24	PERT & CPM – Scheduling Resources and Costs – Types of Resource Constraints – Resource Allocation Methods – Benefits
25 – 28	Leadership – Managing versus Leading a Project – Social Network Building – Ethics and Project Management – Managing Project Teams – Recruitment
29 – 32	Organizing human resources – Managing Virtual Project Teams – Outsourcing Project Work – Best Practices – Art of Negotiating
33 – 36	Module – 5 project presentations (maximum 4 in a group)