Course Code	Course Name	Credits
ILO8021	Project Management	03

**Objectives:** 

- 1. To familiarize the students with the use of a structured methodology/approach for each and every unique project undertaken, including utilizing project management concepts, tools and techniques.
- 2. To appraise the students with the project management life cycle and make them knowledgeable about the various phases from project initiation through closure.

Outcomes: Learner will be able to...

- 1. Apply selection criteria and select an appropriate project from different options.
- 2. Write work break down structure for a project and develop a schedule based on it.
- 3. Identify opportunities and threats to the project and decide an approach to deal with them strategically.
- 4. Use Earned value technique and determine & predict status of the project.
- 5. Capture lessons learned during project phases and document them for future reference

Module	Detailed Contents	Hrs
01	<b>Project Management Foundation:</b> Definition of a project, Project Vs Operations, Necessity of project management, Triple constraints, Project life cycles (typical & atypical) Project phases and stage gate process. Role of project manager, Negotiations and resolving conflicts, Project management in various organization structures, PM knowledge areas as per Project Management Institute (PMI)	5
02	<b>Initiating Projects:</b> How to get a project started, Selecting project strategically, Project selection models (Numeric /Scoring Models and Non-numeric models), Project portfolio process, Project sponsor and creating charter; Project proposal. Effective project team, Stages of team development & growth (forming, storming, norming &performing), team dynamics.	6
03	<b>Project Planning and Scheduling:</b> Work Breakdown structure (WBS) and linear responsibility chart, Interface Co-ordination and concurrent engineering, Project cost estimation and budgeting, Top down and bottoms up budgeting, Networking and Scheduling techniques. PERT, CPM, GANTT chart, Introduction to Project Management Information System (PMIS).	8
04	Planning Projects: Crashing project time, Resource loading and levelling, Goldratt's critical chain, Project Stakeholders and Communication plan Risk Management in projects: Risk management planning, Risk identification and risk register, Qualitative and quantitative risk assessment, Probability and impact matrix. Risk response strategies for positive and negative risks	6

	5.1 Executing Projects:	
05	Planning monitoring and controlling cycle, Information needs and reporting,	
	engaging with all stakeholders of the projects, Team management, communication and project meetings	
	5.2 Monitoring and Controlling Projects:	
	Earned Value Management techniques for measuring value of work completed;	8
	Using milestones for measurement; change requests and scope creep, Project audit	
	5.3 Project Contracting	
	Project procurement management, contracting and outsourcing,	
06	6.1 Project Leadership and Ethics:	
	Introduction to project leadership, ethics in projects, Multicultural and virtual	
	projects	
	6.2 Closing the Project:	
	Customer acceptance; Reasons of project termination, Various types of project	6
	terminations (Extinction, Addition, Integration, Starvation), Process of project	
	termination, completing a final report; doing a lessons learned analysis;	
	acknowledging successes and failures; Project management templates and other	
	resources; Managing without authority; Areas of further study.	

# Assessment:

## **Internal Assessment for 20 marks:**

## Consisting Two Compulsory Class Tests

First test based on approximately 40% of contents and second test based on remaining contents (approximately 40% but excluding contents covered in Test I)

## **End Semester Examination:**

Weightage of each module in end semester examination will be proportional to number of respective lecture hours mentioned in the curriculum.

- 1. Question paper will comprise of total six questions, each carrying 20 marks
- 2. Question 1 will be compulsory and should cover maximum contents of the curriculum
- **3. Remaining questions will be mixed in nature** (for example if Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3)
- 4. Only Four questions need to be solved

## **REFERENCES:**

- Project Management: A managerial approach, Jack Meredith & Samuel Mantel, 7<sup>th</sup> Edition, Wiley India
- 2. A Guide to the Project Management Body of Knowledge (PMBOK<sup>®</sup> Guide), 5<sup>th</sup> Ed, Project Management Institute PA, USA
- 3. Project Management, Gido Clements, Cengage Learning
- 4. Project Management, Gopalan, Wiley India
- 5. Project Management, Dennis Lock, 9th Edition, Gower Publishing England

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