Course Type	Course Code	Name of Course	L	Т	Р	Credit
DE	EMSD505	Strategic Project Management	3	0	0	3

Course Objective

The uniqueness of each project needs an expertise to bring the most productive outcome for the organization and society.

This course is framed to offer you a knowledge sharing through the application of tools, techniques and discussions of case studies

Learning Outcomes

After attending this course, the students will be expected to get a developed understanding on: How to evaluate and select a project

How to manage and control the stakeholders, cost, schedule and quality while managing all the project risks and other threats.

This course will bring the learnings on different qualitative skills and quantitative tools to understand and lead a successful project.

Unit	Topics to be Covered	Lecture Hours (L)	Learning Outcome
1	Introduction to Project	1	Understanding of what is project and project
	Management and Project lifecycle		management, the drivers of project management,
2	Organization Structure and Culture	2	and project governance, etc. Understanding of existing project management
	Organization Structure and Culture		structures in organizations. Relationship of
			Program, portfolio, and project.
3	Project Selection techniques	3	Understanding of organization's strategy and
	-Financial Analysis		Project Selection Criteria: Financial (NPV and
	-Non- Financial Analysis Market and		Payback methods) and non-financial (MCDM
	Demand Analysis Technical Analysis	_	techniques etc.)
4	Defining the Project: Project scope	3	Understanding on how to establish Project
	planning and Work Breakdown Structure		Priorities by creating the Work Breakdown Structure and responsibility matrix and its
	Structure		communication Plan
5	Project scheduling: Estimations of	9	-Developing, constructing and computing the
	Project time and cost reducing		Project Network, AOA and AON fundamentals using
	Project duration. Scheduling		Forward and Backward pass information, CPM,
	resources		slack and float, Probability Models in networks,
			PERT etc.
			-Understanding on how to crash the Project durations by construction of Project cost-duration
			graph and its evaluation.
			-Understanding on types of Resource Constraints,
			Resource Allocation Methods, splitting activities,
			critical chain approach.
			-Understanding the factors influencing the Quality
			of Estimates, and guidelines for estimating times,
			costs and resources, Top-down and bottom-up
		1	estimating, learning curves, etc.

6	Measuring Project Performance: Implementation and Control	4	Understanding on how to monitor and control the projects using Earned value analysis technique, cost-schedule graph, Gantt Chart, etc.
7	7 Agile Project Management methods		Understanding the adaptive project management techniques in the volatile scenarios and changing customer requirements. Change management in projects.
8	Managing Projects Risks		Understanding on Risk Management Processes, Risk identification, assessment, mitigation and risk control etc. Monte Carlo Analysis and Decision Tree Analysis
9	Project Quality Management	2	Understanding the Six sigma tools and other quality control tools in project management
10	Procurement Management	2	Understanding the steps of the procurement activities, contract management for projects, etc.
11	Project Leadership and Managing teams and stakeholders	2	Learning the five-stage team development model, Managing stakeholders, ethics of Project management, conflict management etc.
12	Project Audits and Project Closure Detailed Project Report	2	-Understanding the types of Project Closure, post completion evaluation and documentations etcDiscussion on the documentations in a detailed project report
13	Project Management Information systems	4	Understanding the supporting information system to perform, manage, and control the projects.
	Total	42	

Text Books:

- 1. Gary, C.F., Larson, E.W. and Desai, G.V., Project Management: The Managerial Process, Edition VI, McGraw Hill Education (India) Private Limited, 2004.
- 2. Maley, Claude H. Project management concepts, methods, and techniques. Auerbach Publications, 2012.

Reference Books:

- 1. PMBOK® Guide Seventh Edition (2021).
- 2. Meredith, Mantel and Gopalan, Project Management: Core Text Book, Wiley India, 2006.