

22EE490	PROJECT MANAGEMENT
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Category	L	T	P	Credit
HSMC	3	0	0	3

Preamble

Project management has been proven to be the most effective method of delivering products within cost, schedule, and resource constraints. It provides the skills to ensure that the projects are completed on time and on budget while giving the user the product, they expect. This course gives strong working knowledge of the basics of project management and be able to immediately use that knowledge to effectively manage work projects.

Prerequisite

- NIL

Course Outcomes

On the successful completion of the course, students will be able to :

CO Number	Course Outcome	TPS	Expect Proficiency	Expected Level of Attainment
CO1	Explain the importance of project management and methodologies	TPS2	80	80
CO2	Prepare a project proposal and apply methods for project planning and analysis	TPS3	80	80
CO3	Apply methods to examine the risk and social cost benefit while implementing a project	TPS3	80	80
CO4	Identify the critical path and time in scheduling a set of project-activities	TPS3	80	80
CO5	Explain resource allocation and levelling and the use of PM software	TPS2	80	80
CO6	Outline the importance and various activities during project closure and prepare a project report	TPS3	80	80

Mapping with Programme Outcomes

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2
CO1.	M	L						M		M				M
CO2.	S	M	L					M		M				S

CO3	S	M	L					M		M				S
CO4	S	M	L					M		M				S
CO5	M	L						M		M				M
CO6	S	M	L					M		M				S

S- Strong; M-Medium; L-Low

Assessment Pattern

CO	CAT 1			CAT 2			ASSIGNMENT 1				ASSIGNMENT 2				TERMINAL			
TPS SCALE	1	2	3	1	2	3	3	4	5	6	3	4	5	6	1	2	3	4
CO1	5														10			
CO2	5	20	10				50								10			
CO3	10	30	20				50									20	10	
CO4				5	10	10					50						20	
CO5				5	20	20					50					20		
CO6				10	20											10		

Syllabus

Understanding Projects and Project management: Definition of Project & Project Management. Life cycle of Project. Project Management Methodologies and tools.

Project Selection & Appraisal: Project ideas generation, Pre-Feasibility Analysis -SWOT Feasibility Analysis-Market& Demand appraisal, Technical appraisal, Risk analysis Sensitivity analysis & Scenario Analysis. Economic Feasibility -SCBA-UNIDO approach. Preparing a detailed Project Proposal (Executive Summary).

Project Planning& Execution: Attributes & Definition of planning. WBS. Time Planning - PERT/CPM/Trade off. Material Planning - Procurement logistics & storage. Machines & Technology planning. Human Resource Planning in Project Organization. Quality Assurance Plan. Planning of Risk Management. Resource Allocation & Resource Levelling. Introduction & use of PM software.

Project Closure & Termination: Inspection. Testing. Transportation. Commissioning. Trial Run. Documentation required for Project Handover. Preparing a Project Report for Future Reference, Templates.

Reference Books

1. Prasanna Chandra, Projects: Planning, Analysis, Selection, Financing, Implementation and Review, Mc Graw Hill, 8th edition, 2015

2. Project planning and control using PERT and CPM, Dr.P.C.Punmia, Lakshmi publications, 2006
3. Project Management- A Managerial Approach to Planning, Scheduling, and Controlling Harold Kerzner, 10th edition John Wiley & Sons, Inc.
4. Project Management Institute (PMBOK) Guide, 5th Edition

Course Contents and Lecture Schedule

Module No.	Topic	No. of Lecture Hours
1	Understanding Projects and Project management:..	
1.1	Definition of Project & Project Management.	2
1.2	Life cycle of Project.	2
1.3	Project Management Methodologies and tools	2
2	Project Selection & Appraisal:	
2.1	Project ideas generation, Pre-Feasibility Analysis -	2
2.2	SWOT Feasibility Analysis-Market& Demand appraisal, Technical appraisal,	2
2.3	Risk analysis, Sensitivity analysis & Scenario Analysis.	2
2.4	Economic Feasibility -SCBA-UNIDO approach.	2
2.5	Preparing a detailed Project Proposal	2
3	Project Planning& Execution:	
3.1	Attributes & Definition of planning. WBS.	2
3.2	Time Planning - PERT/CPM/Trade off.	3
3.3	Material Planning - Procurement logistics & storage..	2
3.3	Machines & Technology planning. Human Resource Planning in Project Organization.	2
3.4	Quality Assurance Plan. Planning of Risk Management.	2
3.5	Resource Allocation & Resource Levelling. Introduction & use of PM software	2
4	Project Closure & Termination:	
4.1	Inspection. Testing. Transportation.	2
4.2	Commissioning. Trial Run.	2
4.3	Documentation required for Project Handover.	3
4.4	Preparing a Project Report for Future Reference, Templates	2
	Total	36

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