Project Management

Course Code	20HS7701G	**Year**	IV	**Semester**	I
Course Category	Humanities and Social Science Elective	**Branch**	Common to All	**Course Type**	Theory
Credits	3	**L-T-P**	3-0-0	**Prerequisites**	Nil
Continuous Internal Evaluation	30	**Semester End Evaluation**	70	**Total Marks**	100

Course Outcomes		
Upon successful completion of the course, the student will be able to		**BL**
CO1	Understand the concepts of project management.	L2
CO2	Explain procedure for analyzing the project risk, market risk and firm risk.	L2
CO3	Apply social-cost benefit analysis on a project.	L3
CO4	Analyze a project by applying various network techniques for planning, scheduling and controlling of different activities of a project.	L4
CO5	Analyze various aspects to be considered for technical and financial analysis of the Project and the Environmental appraisal	L4

Contribution of Course outcomes towards achievement of Program outcomes & Strength of correlations (High: 3, Medium: 2, Low:1)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1							2		3	2	2	1
CO2	2	1							2		3	2	2	1
CO3	2	1							2		3	2	2	1
CO4	2	1							2		3	2	2	1
CO5	2	1							2		3	2	2	1
Avg.	2	1							2		3	2	2	1

Syllabus		
Unit No.	**Contents**	**Mapped CO**
1	**Meaning, Nature and Importance of Project** Introduction, Concept of project and project management, Characteristics of project, Project Family tree, Classification of Project, Project selection process, **Project life cycle**, Project report, Project appraisal, Tools and techniques for project management, Project manager's roles and responsibilities	CO1

2	**Analysis of Project Risk, Market Risk and Firm Risk:** Introduction, Analysis of project risks- Projects with quantified benefits and not quantifiable benefits, **Market risk**- Security market risk, Interest rate risk, Purchasing Power Risk, Firm risk- Business risk, financial risk.	CO1 CO2
3	**Cost-Benefit Analysis:** Introduction, need for social cost benefit analysis, Procedure of social cost benefit analysis, Main feature of social cost benefit analysis, **Cost-Benefit Analysis Approaches:** UNIDO approach, Little-Mirrless approach, SCBA in India, Public investment decision making in India, Limitation of SCBA.	CO1 CO3
4	**Network Techniques for Project Management:** Introduction, Network modelling, Probabilistic model-various types of activity times estimation, Programme evaluation review techniques (PERT), probability of completing the project, **Deterministic model**- critical path method (CPM), critical path calculation, crashing of simple of networks	CO1 CO4
5	**Technical and Financial Analysis of Project:** Introduction, Technical Analysis-Materials and inputs, Production, Choice of technology, Product Mix, Plant capacity, Location and site, Structures and civil works, Project charts and layouts, financial analysis -Significance of financial analysis, Utility of financial and accounting statements, **Environmental Appraisal of Projects:** Introduction, Types and Environmental Dimensions of a Project, Stresses on Environment, Environmental Impact Assessment Methodologies	CO1 CO5

Learning Resource
Text books:
1. Prasanna Chandra, Projects Planning, Implementation and Control, Tata McGraw Hill, New Delhi, 1995.
Reference books
1. Project Management Institute (PMI), A Guide to the Project Management of Knowledge Newton Square, PA, 1996 2. J.R. Meredith and S.J. Mantel. Project Management: A Managerial Approach. John Wiley and Sons, 1995. 3. L.S. Srinath, PERT & CPM Principles & Applications, 3rd Ed., East west Press,2001.
e- Resources
1. https://nptel.ac.in/courses/105/106/105106149/
2. https://nptel.ac.in/courses/110/104/110104073/