Course Title: Project Management

Course code: PPM 202	**No. of credits:** 3	**Total Lectures:** 30-15-0	**Learning hours:** 45

Pre-requisite course code and title (if any): None

Department: Policy and Management Studies

Course coordinator: Dr. Shruti Sharma	**Course instructor:** Dr Anand Jaiswal

Contact details: anand.jaiswal@terisas.ac.in

Course type: Core	**Course offered in:** Semester 3

Course Description:

The course aims to give a basic perspective of project management and understanding a project through its life cycle. The course would provide hands-on training on tools and techniques for planning project timelines, resources, and risks.

Course objectives:

The objectives are to:

- Introduce the basic concepts of project management.
- Analyse different kinds of project delivery mechanisms and procurement methods
- Application of project management tools and techniques in project planning.
- Impart skills in planning resources and tracking the time and cost plans of a project.
- Introduce agile project management and a broad understanding of project financing

Course Contents

Module	Topics	L	T	P
1.	**Introduction to Project Management:** Foundation and Fundamental Concepts of Project Management, Phases in the Life cycle of Projects and their significance, Organization Strategy and Project Selection, Project management process groups, Stakeholders in a Project, Sustainable Project Delivery. Project feasibility analysis, Work Breakdown Structure, Organizational Charts	6	2	0
2.	**Project and Project Delivery:** Types of Projects, Public Private Partnership, Turnkey Projects, Contracts Management. Green Project Delivery Mechanism and Procurement. Fundamentals of Lean and six-sigma	6	2	0
3.	**Project Planning/Scheduling and Control:** Project Planning, Gantt Chart, CPM network diagrams, PERT, Project fast track and crashing, Resource loading, Resource levelling and planning. Software training on Microsoft Project (MSP) and Primavera scheduling, Project Monitoring.	8	6	0
4.	**Project Budgeting and Finance: Project Finance**-Key Features, Earned value analysis, Project Valuation, Risk Management, and Models for project financing. Performing cost management using Project Management software.	4	3	0
5.	**Introduction to Agile Project Management:** What is Agile and SCRUM. Why Agile. Principles of AGILE project management, Agile Methods. Agile implementation case studies.	6	2	0
	Total	**30**	**15**	**0**

Evaluation criteria:

- Test 1 – Minor Examination – 20%
- Test 2 – Group Project – 20%
- Test 3 – Individual Project – 20%
- Test 4 – Major Examination – 40%

Learning outcomes:

By the end of the course, the students should be able to:

- Develop a project plan, sequence activities and structure them
- Evaluate different project delivery and procurement mechanisms
- Develop detailed project schedules using software tools
- Recognize issues and challenges in project planning in terms of costs and resources
- Develop an understanding of modern project management tools such as lean and agile and financing mechanism

Pedagogical approach:

The course will be primarily taught through class discussions, hands-on software tutorials,quizzes, case analysis and assignments, and presentations.

Materials Suggested

Readings

1. C. Gray and E Larson (2011), Project Management: The Managerial Process, McGrow Hill
2. Dennis Lock (2013), Project Management, Grower
3. John M Nicholas (2008), Project Management for Business and Technology, Pearson
4. Tate, Karen (2001), Getting Started in Project Management, Wiley: New York.
5. Berkun, Scott (2008), Making Things Happen: Mastering Project Management, O'Reilly Media: Cambridge, MA.
6. Khanna, R. B. (2011), Project Management, PHI Learning Private Limited, New Delhi. Kendrick, Tom (2004), The Project Management Toolkit: 100 Tips and Techniques for Getting the Job Done Right, AMACOM Books: Boston, MA.

Internet References

www.pmi.org.in

Additional Information: The course framework and modules were designed and conceptualizedby Dr. Ann Francis

Student responsibilities:

Attendance, Participation in the class exercise, tutorials, and case discussions, to read relevantstudent material before attending the class.

Course Reviewer(s):

1. Dr. Rajeev Agrawal, Associate Professor, Department of Mechanical Engineering, MNIT, Jaipur
2. Dr. Vasanth Kamath, Associate Professor, Department of Management, TA PaiManagement Institute, Karnataka
3. Vandana C Padmanabhan, Lead (Engg. & Technology), Community Design Agency, Mumbai