



FACULTY OF ENGINEERING & TECHNOLOGY

Effective from Academic Batch: 2022-23

Programme: Bachelor of Technology (Information Technology)

Semester: V

Course Code: 202090522

Course Title: Project Management

Course Group: Open Elective - I

Course Objectives: The course is intended to impart basic skills of Project management & its various aspects to undergraduate students.

Teaching & Examination Scheme:

Contact hours per week			Course Credits	Examination Marks (Maximum / Passing)				
Lecture	Tutorial	Practical		Theory		J/V/P*		Total
				Internal	External	Internal	External	
3	0	0	3	50 / 18	50 / 17	NA	NA	100 / 35

* J: Jury; V: Viva; P: Practical

Detailed Syllabus:

Sr.	Contents	Hours
1	Initiating and Planning Projects: Definition of project, Identification of the key characteristics of a project and primary project constraints, Role and responsibilities of the project manager, Project Organizational Structures, Definition of a project stakeholder, Definition of responsibility for managing stakeholders and controlling their engagement, Purpose of using a project charter, Key elements of a project plan, Scope statement, Work Breakdown Structure (WBS), Difference between authority and influence, Identification of common sources of conflict within a project environment.	08
2	Budgeting the Project : Methods of budgeting, Cost estimating, Improving Cost Estimates, Budget Uncertainty, and risk management	06
3	Scheduling the Project : PERT and CPM Networks, Project uncertainty and risk management, Simulation, The Gantt chart, Extensions to PERT/CPM	15
4	Resources allocation to the Project : Expediting a Project, Resource Loading, Resource Leveling, Allocating Scarce resources to projects, Allocating several resources to the several projects, Goldratt's critical chain	06
5	Monitoring and Controlling the Project : The plan-monitor-control cycle, Data collection and reporting, Earned value, Project control, Designing the control system, Scope creep and change control	06



6	Evaluating and Terminating the Project: Evaluation, Project Auditing, Project Termination	04
Total		45

Reference Books:

1	Project Management in Practice by Jack R. Meredith, Scott M. Shafer, Samuel J. Mantel, Jr. , (WILEY)
2	Project Management and Appraisal by Sitangshu Khatua (Oxford)
3	A Guide to the Project Management Body of Knowledge, Project Management Institute, Inc. Pennsylvania

Supplementary learning Material:

1	NPTEL Resources
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Pedagogy:

- Direct classroom teaching
- Audio Visual presentations/demonstrations
- Assignments/Quiz
- Continuous assessment
- Interactive methods
- Course Projects

Suggested Specification table with Marks (Theory) (Revised Bloom's Taxonomy):

Distribution of Theory Marks in %						R: Remembering; U: Understanding; A: Applying; N: Analyzing; E: Evaluating; C: Creating
R	U	A	N	E	C	
20%	15%	10%	40%	15%	0%	

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Course Outcomes (CO):

Sr.	Course Outcome Statements	%weightage
CO-1	Learning how to initiate and plan projects.	19
CO-2	Understanding of budgeting and scheduling of project.	44
CO-3	Learning how to allocate resources to techniques.	14
CO-4	Monitoring and Controlling the Project.	14
CO-5	Evaluating and Terminating the Project.	09

Curriculum Revision:

Version:	2.0
Drafted on (Month-Year):	June-2022
Last Reviewed on (Month-Year):	-
Next Review on (Month-Year):	June-2025