FACULTY OF ENGINEERING & TECHNOLOGY

Effective from Academic Batch: 2020-21

Programme: **Bachelor of Engineering (Information Technology)**

Semester: **V**

Course Code: **102090522**

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)				
				Theory		J/V/P*		Total
Lecture	Tutorial	Practical		Internal	External	Internal	External	
3	0	0	3	40 / 14	60 / 21	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

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:	1.0
Drafted on (Month-Year):	June-2020
Last Reviewed on (Month-Year):	-
Next Review on (Month-Year):	June-2025