

# RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

## New Scheme Based On AICTE Flexible Curricula

### Civil Engineering, VII-Semester

#### Open Elective CE 703(B) Project Management

#### Course Objectives:

The objectives of this course are :

1. To make them understand the concepts of Project Management for planning, resource utilization to execution of projects.
2. To make them understand the feasibility analysis in Project Management, earned value, risk and time estimation.
3. To enable them to comprehend the fundamentals of Project life cycle, Costing and Budgeting.
4. Make them capable to analyze, apply and appreciate contemporary project management tools and project proposal, documentation and team management.

#### UNIT 1

##### Project Management Concepts & Initiating

Project Attributes , Balancing Project Constraints, Project Life Cycle  
Project Management Process, Stakeholder Engagement , Global Project Management , Benefits .Project Identification, Project Selection

#### UNIT 2 Developing Project Proposals

Building Relationships with Customers and Partners, Pre-RFP/Proposal Marketing  
Decision to Develop a Proposal & techniques ,Proposal Preparation & Contents  
Pricing Considerations , Contracts

#### UNIT 3 Planning Schedule, & Resource Utilization-Its Performance , and Controlling the Project

Project Objective ,scope, Plan for Quality , Create W.B.S, Assign Responsibility, Activities & sequencing ,Estimate Activity Resources & Durations ,Develop Project Schedule , Project Control Process ,Resource-Constrained Planning ,leveling, scheduling  
Project Management Information Systems

#### Unit 4 Determining Costs, Budget, and Earned Value & Risks

Estimate Activity Costs Determine Project Budget , Determine Actual Cost  
Determine Value of Work Performed Analyze Cost Performance , Control Costs ,Manage Cash Flow,  
Identify Risks, Assess Risks ,Monitor Risks

#### Unit 5 The Project Team & Project Manager & Documentations & project Management structures

Acquiring the Project Team, Project Team Development, Project Kickoff Meeting  
Project Manager Responsibilities, Project Manager Skills ,Developing Project Manager Competence ,Delegation & Managing Changes,  
Functional Organizational Structure ,Matrix Organizational Structure  
Advantages and Disadvantages of Organizational Structures

**Course Outcomes:**

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

1. Understand project characteristics and various stages of a project.
2. Understand the conceptual clarity about project organization and feasibility analyses – Market, Technical, Financial and Economic.
3. Analyze the learning and understand techniques for Project planning, scheduling and Execution Control.
4. Apply the risk management plan and analyse the role of stakeholders.
5. Understand the contract management, Project Procurement and productivity.
6. Understand the Documentation and Control are practiced in the industry

**References:**

1. Contemporary Project Management, 4E by Timothy J. Kloppenborg | Vittal S. Anantatmula | Kathryn Wells Cengage Learning India
2. Project Management: The Managerial Process, 6E by Clifford F. Gray, Erik W. Larson, Gautam V. Desai McGraw Hill
3. Project Management, 1E by Pradeep Pai. Pearson
4. Project Management: A Systems Approach to Planning, Scheduling, and Controlling, 12th Edition by Harold Kerzner. Wiley
5. Project Management A practical guide to planning and managing Projects by Stephen Hartley. Taylor & Francis