

COMMON FOR ALL BRANCHES

# PROJECT MANAGEMENT SKILLS



**Text Book of**

# **PROJECT MANAGEMENT SKILLS**

**For  
Semester – II**

**FIRST YEAR DIPLOMA IN ENGINEERING AND TECHNOLOGY  
COMMON FOR ALL BRANCHES**

**As Per New Syllabus of Jharkhand University of Technology,  
Ranchi w.e.f. 2023-2024**

**Dr. Sheetal M. Randhir**

(M.Com., G.D.C. & A., NET, Ph.D.)  
Tikaram Jagannath college of arts, commerce and science,  
Khadki, Pune 411030

**Dr. M. M. Ansari**

B.Tech (Civil) M.Tech (Civil), NITTTR  
Lecturer  
AI - Kabir Polytechnic, Jamshedpur

**Dr. Kabir G. Kharade**

(MCA. Ph.D)  
Department of Computer Science  
Shivaji University, Kolhapur 416004

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## PROJECT MANAGEMENT SKILLS

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## **1. Introduction**

Introduction and definition, Features of a Project, Types of Projects, Benefits and Obstacles in Project Management, Project Management Profession, Role of Project manager, Consultants, Project and Operation, Project Management Process, Project Scope.

## **2. Project Administration**

Project Administration, Project Team, Project Design, Work Breakdown Structure (WBS), Project Execution Plan (PEP), Systems and Procedure Plan, Project Direction, Communication and Co-ordination, Project Success Case Study 1.

## **3. Project Lifecycle**

Project Life Cycle, Phases - Project Planning, Project Execution, Project Closure, Project Risks, Project Cost Risk Analysis, Time and Cost overruns Case Study 2a.

## **4. Project Planning, Project Scheduling and Project Monitoring and Implementation**

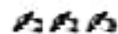
Project Planning Function, Structure, Project Scheduling, Project monitoring and Project evaluation Case Study 2b.

## **5. Project Control, Review and Audit**

Project Control, Problems of Project Control, Gantt Charts, Milestone Charts, Critical Path Method (CPM), Network Technique in Project Scheduling, Crashing Project Duration through Network, Project Review, Initial Review, Performance Evaluation, Abandonment Analysis, Project Audit Case Study 2c.

## **6. Digital Project Management**

Digital Technology trends in Project management, Cloud Technology, IoT, Smart cities, Data and analytics, case studies Case study 3.





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