

Devi Ahilya Vishwavidyalaya, Indore, India Institute of Engineering & Technology				III Year B.Tech. (Civil Engineering)		
Course Code & Name	Instructions Hours per Semester and Credits					
5RVHS1 Management for Engineers	Classroom Instruction (CI)		Lab Instruction (LI)	Term Work (TW) and Self Learning (SL)	Total no. of Hours Per semester	Total Credits (Total Hours/30)
	L	T	P	TW+SL	60	2
	20	00	00	40		

Course Learning Objectives:

- 1. Understand the concept and importance of Management** Gain clarity on the definition, scope, and relevance of management in organizational contexts.
- 2. Develop managerial abilities, skills, and capabilities to manage an organisation** Build competencies in planning, organizing, leading, and controlling for effective administration.
- 3. Acquire knowledge of the business environment** Explore economic, social, political, and technological factors influencing organizational operations.
- 4. Understand key management skills required in organisations and their application** Learn practical approaches to decision-making, communication, leadership, and problem-solving.
- 5. Work effectively with team members from diverse backgrounds** Enhance interpersonal skills, cultural sensitivity, and collaboration in multi-disciplinary settings.

Prerequisites: Project management, Financial acumen , Communication

COURSE CONTENTS

UNIT I –

INTRODUCTION TO MANAGEMENT

Basic concepts of management: Definition, Essence, Principles, Roles, Level; Functions of management: Planning, Organizing, Staffing, Directing, Coordinating and controlling; Organizational efficiency & effectiveness; Roles of manager, Skills required in a manager.

UNITII

MANAGEMENT AND SOCIETY

Organization: Types and Structure; Business environments: Political, Economic, Legal, Social, Technological and International environment; Designing effective organization: Span of management, Delegation, Centralization and Decentralization; Formal and Informal organization.

UNITIII

MANAGEMENT OF HUMAN AT WORK

Human Resource Development: Interrelationship of managerial function; significance of staffing, Personnel management: Recruitment, Training, Performance appraisal, Employee retention; Managerial communication; Motivating individuals and workgroups, Leadership for managerial effectiveness.

UNITIV

MANAGEMENT ETHICS FOR ENGINEERS

Business ethics, social responsibility of Business: Economical, Legal, Ethical and Philanthropic; Ethical responsibilities of Engineers toward society; Business and environment protection; Impact of engineering on society.

UNITV

MODERN MANAGEMENT CONCEPTS

MBO: Principles, steps, advantages and disadvantages; Strategic management-SWOT analysis; Team Building: Definition of Team, Team Formation, Approaches, Goal Setting and Communication among Team Members. Models of relationship between professional and client. Case Study

Course Outcome:

CO. No.	CO	PO
CO1	Learn concepts and functions of Management. Identify key management processes and understand their relevance in business organizations.	PO-6, PO-8, PO-9, PO-10, PO-11
CO2	Explore types and structures of business environment and incorporate managerial skills.	PO-2, PO-4, PO-6, PO-9, PO-11
CO3	Understand dimensions of leading and motivating in organisations. Develop the capacity to lead in diverse circumstances.	PO-6, PO-9, PO-10, PO-11
CO4	Practice business ethics and social responsibility as engineers.	PO-3, PO-8, PO-12
CO5	Develop managerial behaviour in organisations using modern management concepts and build effective teams to achieve organisational goals.	PO-9, PO-10, PO-11

BOOKSRECOMMENDED:

- [1]. R. D Agrawal, Organization & Management.1/E PHI1997.
- [2]. Tripathy PC And Reddy PN, Principles of Management, Tata McGraw-Hill, 5th Edition, 2012.
- [3]. Dinkar Pagare, Principles of Management, Sultan Chand & Sons, 2000.

- [4]. G. K. Vijayaraghavan and M. Sivakumar, Principles of Management, Lakshmi Publications, 5th Edition, 2009.
- [5]. Harold Koontz & Heinz Weihrich, Essentials of Management—An International perspective, 8th edition. Tata McGraw-Hill, 2009.
- [6]. Charles W. L. Hill and Steven L McShane, Principles of Management, Tata Mc Graw Hill, 2009.
- [7]. Fleddermann, C. B., “Engineering Ethics,” Pearson Prentice Hall, Upper Saddle River, NJ, 2004.
- [8]. Stephen P .Robbins, Timothy A Judge, Sanghi Seema Organizational Behavior, Pearson Education 13th Ed 2009.

CO-PO Relationship

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	
5RVHS1. CO1						2		3	3	3	3	
5RVHS1. CO2		2		3		2			3		3	
5RVHS1. CO3						2			3	3	2	
5RVHS1. CO4						3		3				
5RVHS1. CO5									3	3	3	