

**M.E Semester: 1 Mechanical Engineering (Thermal Engineering)**  
**Subject Name: PRINCIPLE OF MANAGEMENT**

**A. Course Objective**

- To present a problem oriented in depth knowledge of Principle Of Management
- To address the underlying concepts and methods behind Principle Of Management

**B. Teaching / Examination Scheme**

SUBJECT		Teaching Scheme				Total Credit	Evaluation Scheme					Total Marks
		L	T	P	Total		THEORY		IE	CIA	PR. / VIVO	
CODE	NAME	Hrs	Hrs	Hrs	Hrs		Hrs	Marks	Marks	Marks	Marks	
METH106-B	Principles of Management	3	0	0	3	3	3	70	30	20	0	120

**C. Detailed Syllabus**

- Basic concepts of management: Definition – Need and Scope – Different schools of management thought – Behavioural, Scientific, Systems, and Contingency
- Contribution of Management Thinkers: Taylor, Fayol, Elton Mayo
- Functions of Management –a) Planning – Concept, Nature, Importance, Steps, Limitations, Management by objectives b) Organizing - Concept, Nature, Importance, Principles, Centralization, Decentralization, Organization Structures- Line and Staff Authority, Functional, Product, Matrix, Geographical, Customer, New Forms of Organization – Virtual, Organizations as Networks - Types of Network Organizations/Clusters - Self-Organizing Systems. Organizational Designs for Change and Innovation - Designing Principles for New Forms of Organizations c) Staffing - Concept, Nature, Importance, Steps, Concept of knowledge worker.d) Directing – Concept, Nature, Importance.e) Controlling - Concept, Nature, Importance, Process of controlling, Control Techniques.
- Group Dynamics and Team Management Theories of Group Formation – Formal and Informal Groups and their interaction, Importance of teams - Formation of teams – Team Work, Leading the team, Team Meeting, Conflict Management - Traditional vis-à-vis Modern view of conflict, Conflict Process - Strategies for resolving destructive conflict, Stress management, employee welfare, energy management and energy audit
- Decision making: Concept, Nature, Importance, and Process. Types of decisions, Problems in decision making.
- Modern approaches to management: Concept of Knowledge management, change management, technology management, supply chain management, introduction to Intellectual Property Rights (IPR) and cyber laws, process and project quality standards – six sigma, CMM, CMMI, PCMM, Impact of IT quality management systems, learning organizations
- Contemporary Issues Social Responsibility & Ethics, Globalization & Management Inventing & Reinventing Organizations, Culture & Multiculturalism, Managing Organizational Change & Innovation

**D. Lesson Planning**

Sr.No.	Date/Week	Unit No.	% Weightage	Topic No:
1	1 <sup>st</sup> , 2 <sup>ed</sup> , 3 <sup>ed</sup>	Unit 1	20 %	1,2
2	4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup>	Unit 2	20 %	3
3	7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup>	Unit 3	20 %	4,5
4	10 <sup>th</sup> , 11 <sup>th</sup> , 12 <sup>th</sup>	Unit 4	20 %	6
5	13 <sup>th</sup> , 14 <sup>th</sup> , 15 <sup>th</sup>	Unit 5	20 %	7

#### **E. Instructional Method & Pedagogy**

1. At the start of course, the course delivery pattern , prerequisite of the subject will be discussed
2. Lecture may be conducted with the aid of multi-media projector, black board, OHP etc. & equal weightage should be given to all topics while teaching and conduction of all examinations.
3. Attendance is compulsory in lectures and laboratory, which may carries five marks in overall evaluation.
4. One/Two internal exams may be conducted and total/average/best of the same may be converted to equivalent of 15 marks as a part of internal theory evaluation.
5. Assignment based on course content will be given to the student for each unit/topic and will be evaluated at regular interval. It may carry an importance of ten marks in the overall internal evaluation.
6. Surprise tests/Quizzes/Seminar/Tutorial may be conducted and having share of five marks in the overall internal evaluation.

#### **F. Students Learning Outcomes**

- The student can identify different areas of Principle of Management.
- Can find the applications of all the areas in day to day life.

#### **G. Recommended Study Materials**

##### **• Basic Text Books:**

1. Essentials of Management by Koontz Tata McGraw Hill Latest Edition
2. Management Principles Process and Practices by Anil Bhat, Arya Kumar Oxford Latest Edition
3. Principles and Practices of Management by Shejwalkar and Ghanekar Tata McGraw Hill Latest Edition

##### **• Reference Books:**

1. IT Project Management by Joseph Phillips Tata McGraw-Hill Latest Edition
2. Management-Tasks, Responsibilities and Practices by Peter Drucker Transaction Latest Edition
3. Principles of Management by R. N. Gupta S. Chand Latest Edition
4. Management by S. A. Sherlekar Himalaya Latest Edition
5. Principles of Management by T. Ramasamy Himalaya Latest Edition
6. Principles and Practice of Management by Dr. P. C. Shejwalkar, Dr. Ghanekar and Dr.Bhivapathaki Everest publishing House Latest, Latest Edition