

PRINCIPLES OF MANAGEMENT & PROFESSIONAL ETHICS

Course Objective:

- To have a clear understanding of the managerial functions like planning, organizing, staffing, leading and controlling.
- To study the evolution of management
- To study the functions and principles of management
- To learn the application of the principles in an organization
- **To learn the engineering ethics and human values**

UNIT I OVERVIEW OF MANAGEMENT

Definition - Management - Role of managers - Evolution of Management thought – Organization and the environmental factors – Trends and Challenges of Management in Global Scenario.

UNIT II PLANNING & ORGANIZING

Nature and purpose of planning and Organizing - Planning process - Types of plans – Managing by objective (MBO) Strategies - Types of strategies - Policies - Decision Making - Types of decision - Decision Making Process - Rational Decision Making Process - Decision Making under different conditions. - Organization structure - Formal and informal groups I organization - Line and Staff authority - Departmentation - Span of control - Centralization and Decentralization - Delegation of authority - Staffing - Selection and Recruitment - Orientation - Career Development - Career stages – Training - Performance Appraisal.

UNIT III DIRECTING & CONTROLLING

Creativity and Innovation - Motivation and Satisfaction - Motivation Theories - Leadership Styles - Leadership theories
- Communication - Barriers to effective communication – Organization Culture - Elements and types of culture -
Managing cultural diversity. Process of controlling - Types of control - Budgetary and non-budgetary control
techniques - Managing Productivity - Cost Control - Purchase Control - Maintenance Control
- Quality Control -
Planning operations.

UNIT IV ENGINEERING ETHICS & HUMAN VALUES

Definition - Societies for engineers – Code of Ethics – Ethical Issues involved in cross border research - Ethical and Unethical practices – case studies – situational decision making - Morals, values and Ethics – Integrity – Work ethics– Service learning – Civic virtue – Respect for others – Living peacefully – Caring – Sharing – Honesty – Courage – Valuing time – Cooperation – Commitment – Empathy – Self confidence – Character – Spirituality Introduction to Yoga and meditation for professional excellence and stress management.

UNIT V SAFETY RESPONSIBILITIES AND RIGHTS

Safety and Risk – Assessment of Safety and Risk – Risk Benefit Analysis and Reducing Risk
- Respect for Authority
– Collective Bargaining – Confidentiality – Conflicts of Interest – Occupational Crime –
Professional Rights –
Employee Rights – Intellectual Property Rights (IPR) – Discrimination – Global issues -
Multinational Corporations –
Environmental Ethics – Computer Ethics – Weapons Development – Engineers as Managers –
Consulting Engineers
– Engineers as Expert Witnesses and Advisors – Moral Leadership –Code of Conduct –
Corporate Social
Responsibility.



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