

Year & Sem:	Course Code: ME3506	Course Name: Industrial Engg and Management	No. of Credits: 4	L 2	T&PS 2	P 0
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Introduction To Management: Concepts of Management - nature, importance and Functions of Management, Taylor's Scientific Management Theory, Fayol's Principles of Management, Maslow's Theory of Human Needs, Douglas McGregor's Theory X and Theory Y, Leadership Styles, Social responsibilities of Management. **Designing Organizational Structures:** Types of mechanistic and organic structures of organization (Line organization, Line and staff organization, functional organization, Committee organization, matrix organization, team structure) their merits, demerits and suitability. **Plant location;** definition, factors affecting the plant location, comparison of rural and urban sites-methods for selection of plant, Types of Plant Layout-Methods of production (Job, batch and Mass Production), Work Study. **Materials Management:** EOQ, ABC Analysis, Purchase Procedure and Stores Management. Inventory — functions. Types , inventory classification techniques. **Marketing:** Functions of Marketing, Marketing Mix, Marketing Strategies based on Product Life Cycle, Channels of distribution. **Human Resources Management (HRM):** Concepts of HRM ,Personnel Management and Industrial Relations (PMIR), Basic functions of HR Manager: Manpower planning, Recruitment, Selection, Training and Development, Placement, Wage and Salary Administration, Promotion, Transfer, Separation, Performance Appraisal, Grievance Handling and Welfare Administration, Job Evaluation, Merit Rating and methods. **Inspection and Quality Control** types of inspections — Difference between inspection & quality control. Statistical Quality Control-techniques, variables and attributes- variable control charts. and R charts. Attributes control charts. p charts and c charts. Acceptance sampling plan- single sampling and double sampling plans-OC curves. Introduction to TQM-Quality Circles. ISO 9000 series procedures. **Strategic Management:** Vision, Mission, Goals, Objectives, Policy, Strategy, Programmes, Elements of Corporate Planning Process, Environmental Scanning, Value Chain Analysis, SWOT Analysis, Steps in Strategy Formulation and Implementation. **Project Management (PERT/CPM):** Network Analysis, Programme Evaluation and Review Technique (PERT), Critical Path Method (CPM), Identifying critical path, Probability of Completing the project within given time, Project Cost Analysis, Project Crashing. (Simple problems).

References/Text Books:

1. Manwlicturng Organization and Management. Antrind Pearson. 2nd Edition. 2004.
2. Industrial Engineering and Management O.P. KhannaDhanpatRai.
3. Stoner. Freeman. Gilbert. Managemem. 6th Ed, Pearson Education. New Delhi, 2005.
4. Fanner Selvam, Production and Operations Management, PHI, 2004.
5. Dr. C. Nadha Muni Reddy and Dr. K. Vijaya Kumar Reddy, Reliability Engineering & Quality Engineering. Galgotia Publications, Pvt Limited.
6. Ralph M Barnes. Motion and Time Studies. John Wiley and Sons. 2004.
7. Chase. Jacobs. Aquilano. Operations Management. TM Ii 10th Edition. 2003. 6. I[RT CPM, affiliate Fast-West Press. New Delhi. 2000

Lecture Plan: Unit-I & -II syllabus for MID-I, Unit-III & -IV syllabus for MID-II and Unit-V & -VI syllabus for MID-III examinations.