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**MS 265**

**Planning Engineering / Project Management**

**Prerequisite:**

**Credit Hours: 2+0**

**BICSE & BEE**

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### **Goals and Objectives**

The students will learn Core competencies, leadership, knowledge management, strategic planning, human resource management, Total Quality, process management, business results, value creation and customer satisfaction.

After the course students will be able to completely understand the management skills required for successful engineering manager.

### **Course Description**

The course introduces students to technical management and engineering concepts and principles. Course covers principles and applications to effectively manage technical projects, people, budgets and schedules, organizing and motivating people, and controlling activities, managing research, development, design, and production activities, directing projects, improving quality, and engineering ethics.

### **Text book**

- **Payne, Andrew C., Chelsom, John V., and Reavill, Laurie R., Management for Engineers, John Wiley and Sons LTD, 1996. ISBN 0-4719-5603-1.**

### **Reference books**

- **Dorf, Richard C., (Editor-in-Chief), the Technology Management Handbook, CRC Press and IEEE Press, 1999. ISBN 0-8493-8577-6.**
- **Erez, Miriam, and Earley, P. Christopher, Culture, Self-Identity, and Work, Oxford University Press, 1993. ISBN 0-1950-7580-3**
- **Kaposi, Agnes, and Meyers, Margaret, Systems for All, World Scientific Publication Company, 2001. ISBN 1869-94275-X**

### **Course Contents**

- Introduction to Engineering Management
  - ✚ Organizations and Self
  - ✚ What is an Organization?
  - ✚ Individuals within the organization

## 🚩 Individual Issues

- Personality & Perception
- Organization Culture—including Cultural Frameworks
- Individualism vs. Collectivism
- Motivation and Communication
- Groups and Teams in the Organization
- Group Processes
- Leadership
- Power and Politics
- Issues in Human Resource Management
- Operations & management
- Entrepreneurship
- Innovation and Change
- Production & manufacturing
- Business Strategy, Quality
- Techniques for evaluating and comparing projects & alternatives.

### **Weightage**

|                |   |     |
|----------------|---|-----|
| Quizzes        | : | 15% |
| One Hour Tests | : | 35% |
| Assignments    | : | 10% |
| Final Test     | : | 40% |

### **Assignments:**

Assignments will be given keeping in view the concept taught during the course and practical nature problem to inculcate analytical skills in problem solving.