# **HSHS3001 BUSINESS MANAGEMENT (3-0-0)**

# **Course Objectives**

By the end of this course, students will be able to:

- Understand fundamental management principles
- Learn project management techniques and its application
- Understand the financial aspects of engineering decisions
- Demonstrate leadership, communication, and team management skills
- Understand the basics of entrepreneurship and innovation management

# Module-I: Management Foundations and Organizational Dynamics

Introduction to Management: Functions of Management; Evolution of management thought and its relevance to engineering; Management vs. Leadership: Key distinctions; Decision-making processes; Organizational design and structure; Team dynamics and group behaviour; Motivation theories and their application to technical teams; Organizational Communication; Cultural considerations in global business environment

#### Module-II: Project Management and Financial Decision Making

Project lifecycle and phases; Work breakdown structure and scheduling; Resource allocation and budgeting; Risk management in engineering projects; Quality management and control; Basic financial statements and their interpretation; Time value of money; Budgeting and cost control; Return on investment (ROI) and net present value (NPV); Funding sources for engineering projects; Cost-benefit analysis for technical decisions

#### Module-III: Leadership, Innovation and Entrepreneurship

Leadership styles and their effectiveness; Managing technical teams and professionals; Performance management and feedback; Recruitment and selection in engineering roles; Training and development of technical staff; Ethical leadership in engineering; Innovation management; Technology transfer and commercialization; Startup fundamentals; Intellectual property basics; Business model development

### **Course Outcomes**

- CO1: Recall fundamental management principles, organizational theories, and project management methodologies, key financial concepts used in engineering decision-making.
- CO2: Explain the relationship between management functions (planning, organizing, leading, controlling) and their application.
- CO3: Demonstrate project management skills and apply financial analysis techniques for decision making.
- CO4: Analyse organizational behaviour patterns, team dynamics, and performance issues in engineering management contexts.
- CO5: Judge ethical implications of management decisions and leadership actions in professional engineering practice.
- CO6: Create integrated management solutions for solving complex business problems.

# **Reference Books:**

- Management Theory and Practice" by C.B. Gupta
- 2. Essentials of Management" by Koontz, Weihrich, and Aryasri (Indian Edition)
- 3. Project Management for Engineering and Technology" by N.K. Sharma
- 4. Financial Management: Theory and Practice" by Prasanna Chandra
- 5. Organizational Behaviour" by Aswathappa K.
- 6. Human Resource Management" by V.S.P. Rao
- 7. Entrepreneurship Development" by S.S. Khanka
- 8. Operations Management" by R. Panneerselvam