

Semester	5		
Course Code:	MA2300		
Course Name:	Management for Engineers		
Credit Value	3 (Notional hours: 150)		
Pre-requisites	None		
Core /Optional	Core for Electrical & Electronic, Mechanical and Manufacturing & Industrial Engineering Undergraduates		
Hourly Breakdown	Lectures (hrs)	Small-Group Discussions (hrs)	Independent Learning (hrs)
	29	16	105
<p>Aim(s): To impart the concepts and frameworks of procurement management and to develop students' analytical and decision-making skills related to procurement management.</p> <p>Intended Learning Outcomes: On completion of the course, students should be able to:</p> <ul style="list-style-type: none"> ➤ appreciate the multitasking role of an engineering manager. ➤ formulate vision, mission, objectives, goals, and strategies for an organization. ➤ appreciate human resource optimisation in organizations. ➤ discuss the laws pertaining to business, occupational health and safety, and the environment. ➤ analyze financial statements for decision-making. ➤ apply principles of project management to plan and schedule a project. 			
<p>Course content:</p> <ul style="list-style-type: none"> ● Multitasking Role of a Manager and Management Approaches: Evolution of management theory; scientific management; behavioral management; contemporary approaches. ● Strategic Management: Environmental analysis; SWOT; SOAR; PEST; Porter's five force model; competitive strategies; mission; vision; values and goals; organization structure and culture; Customer focus and marketing; Corporate, business and operational strategies in organizations. ● Human Resource Optimisation in Organizations: Human resources management: talent and skill development; recruitment process; technology management ● Legal Aspects of Management: Introduction to business law; the law relating to employment; occupational health and safety; environmental law ● Financial Aspects of Management: Principles of corporate finance; Investment decisions: capital budgeting techniques (Pay Back, NPV, IRR, Profitability); financing 			

decision; life cycle financing; financial statements and accounting; cash management.

- **Principles of Project Management:** Project planning and scheduling: critical path analysis, network crashing, Gantt chart and resource allocation and cash flow analysis; monitoring and controlling project costs, quality, and time.

Teaching/Learning Methods:

Lectures
Student Based Activities

Assessment Strategy

Continuous Assessments 50%		Final Assessment 50%		
Small Group Activities 30%		Theory	Practical	Other
Quizzes 20%		50%	-	-

Recommended Reading:

- Fred, R. D. (2011). *Strategic Management Concepts and Cases* (13th Edition). Prentice Hall, USA.
- Philip, K. and Gary, A. (2012). *Principles of Marketing* (14th Edition). Pearson Prentice Hall, UK.
- Project Management Institute Inc. (2013). *A guide to the Project Management Body of Knowledge* (5th edition). Project Management Institute Inc, USA.
- Raymond A. Noe, et al. (2016). *Fundamentals of Human Resource Management* (6th Edition). McGraw Hill Education, USA.
- Stephen, A. R., Radolph, W. W. & Bradford, D. J. (2008). *Fundamentals of Corporate Finance* (6th Edition). McGraw-Hill Irwin.
- Stephen, P. R., David A, D. & Mary, C. (2013). *Fundamentals of Management* (8th Edition). Pearson, USA.
- Weerasooria, W. (2010). *Commercial Law* (1st Edition). Project Management Institute, Sri Lanka.