

<b>Course Code</b>	MA 205
<b>Course Title</b>	Management for Engineers
<b>Credits</b>	3
<b>Prerequisites</b>	None
<b>Compulsory / Optional</b>	Compulsory for Mechanical Engineering / Optional for Others
<b>Aim(s):</b> To introduce managerial aspects needed for engineering graduates to perform a multitasking role in the industry.	
<p><b>Intended Learning Outcomes:</b>  On completion of the course, students should be able to:</p> <ol style="list-style-type: none"> <li>1. Describe evolution of management.</li> <li>2. Create a vision, mission, objectives, goals and a strategy for an organization.</li> <li>3. Explain functions within an organization including finance, human resources, marketing, engineering, legal and operations and how each function contributes to the growth and development of the organization.</li> <li>4. Analyse financial statements and investment opportunities of an entity.</li> <li>5. Apply principles of project management to plan and schedule a project.</li> </ol>	
<b>Time Allocation (Hours):</b> Lectures 32, Tutorials/ Small Group Discussions 8, Assignments 10	
<p><b>Course content / Course descriptions:</b></p> <ul style="list-style-type: none"> <li>• <b>Management Approaches:</b> Evolution of management theory; scientific management, behavioural management; contemporary approaches</li> <li>• <b>Strategic Management:</b> Environmental analysis; SWOT; PEST; porter's 5 force model; competitive strategies; customer focus; mission; vision; values and goals; organization structure &amp; culture</li> <li>• <b>Human Resources Management:</b> Acquiring; training and developing; assessing; compensating and improving performance</li> <li>• <b>Technology Management:</b> Asses technology needs; acquiring technology; technology transfer</li> <li>• <b>Marketing:</b> Segmentation; targeting and positioning; marketing mix</li> <li>• <b>Legal Aspects of Management:</b> Introduction to business law; law relating to employment; occupational health and safety; environmental law</li> <li>• <b>Financial Aspects of Management:</b> Financial statements; P&amp;L; balance sheet; cash flow; ration analysis; investment appraisal; payback; NPV; IRR</li> <li>• <b>Principles of Project Management:</b> Project planning and scheduling; critical path analysis; monitoring and controlling</li> </ul>	

**Recommended Texts:**

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

<b>Assessment</b>	<b>Percentage Mark</b>
<b>In-course:</b>	
Small Group Activities/ Case Studies/ Assignments/Presentation	40
Mid semester examination	20
<b>End- semester examination</b>	40