

Course Title	Logistics and Operations Management				
Course Code	MBC625				
Course Type	Compulsory				
Level	Master (2 <sup>nd</sup> Cycle)				
Year / Semester	1 <sup>st</sup> Year / 2 <sup>nd</sup> Semester				
Teacher's Name	TBA				
ECTS	10	Lectures / week	3 Hours / 14 weeks	Laboratories / week	None
Course Purpose and Objectives	<p>This course focuses on major themes and strategies of logistics and operations management relationships. Students shall be exposed to the functions of systems producing goods or delivering services and will review and learn how to apply the various techniques for planning, scheduling and controlling at different levels of operation management decisions.</p> <p>The new trends and developments such as, Synchronous Manufacturing, Quality Management, cycle time reduction will be examined. The emphasis will be put on interrelations of the different operational decisions on the final product and competitive position of the organization.</p>				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> <li>• Demonstrate deeper understanding of contemporary logistics management</li> <li>• Through business cases apply the process of operations planning and be able link operations strategy with corporate strategy</li> <li>• Identify opportunities to streamline and/or achieve cost effectiveness</li> <li>• Evaluate the existing supply chain management approaches</li> <li>• Through business cases apply the process of operations planning and be able to identify the linking of operations strategy with corporate strategy</li> <li>• Apply analytical and critical decision making tools in operation Management decisions.</li> <li>• Apply in real business Environment Total Quality Management concepts and quality Management tools and techniques</li> <li>• Apply and appraise capacity management, layout and location management techniques for Lean Management in a business Environment.</li> </ul>				
Prerequisites	None	Co-requisites	None		

<p>Course Content</p>	<p><b>Course Contents:</b></p> <p>The Operations Function and its Environment; Historical Developments of OM.</p> <p>Operations strategies, Manufacturing strategies. Productivity Measurement and Trends; Competitive Priorities; Operations Role in Firm Competitiveness.</p> <p>Process Management, Major process decisions, vertical integration</p> <p>Designing processes, Business process Re- Engineering, Flow Diagrams, Process Charts,</p> <p>Decision Making, Decision making tools in Operations Management. Decision Trees.</p> <p>Design for Total Quality Management, The Elements of TQM; Generic Tools of Quality Management, Cause and Effect Diagram, Pareto Charts.</p> <p>Capacity , Capacity Strategies, Sizing and Timing capacity Expansions</p> <p>Location, Location decisions, Dominant factors in locating Manufacturing and Services operations, Location tools.</p> <p>Layout, Layout planning. Designing process and product layouts.</p> <p>Learning curves in operations management, The learning effect. Developing learning curves.</p> <p>Inventory Management, The Role and Cost of Inventory; inventory Control for Independent Demand; Inventory Control for Dependent Demand</p>
<p>Teaching Methodology</p>	<p>Face-to-Face</p>
<p>Bibliography</p>	<p>E - book title:  Operations Management  PROCESSES AND SUPPLY CHAINS, GLOBAL EDITION  LEE J. KRAJEWSKI  LARRY P. RITZMAN  MANOJ K. MALHOTRA  PEARSON</p> <p>R. Chaise, N. Aquilano R. Jacobs: OPERATIONS  MANAGEMENT FOR COMPETITIVE ADVANTAGE, McGraw Hill.  Latest edition</p>

	<p>Buurman, J., Supply Chain Logistics Management. McGraw-Hill.</p> <p>Christopher, M., Logistics and Supply Chain Management: Strategies for Reducing Cost and Improving Service Financial Times. Pitman Publishing.</p> <p>Cooper, R., Supply chain development for the lean enterprise: interorganizational cost management. Routledge.</p> <p>Hugos, M.H., Essentials of Supply Chain Management. John Wiley &amp; Sons.</p>		
Assessment	Examinations	60%	
	Class Participation and Attendance	10%	
	Assignments	30%	
		100%	
Language	English		