

<b>Course Title</b>	<b>Operations Management</b>			
<b>Course Code</b>	<b>MGT 420</b>			
<b>Course Type</b>	<b>Elective</b>			
<b>Level</b>	Undergraduate			
<b>Year / Semester</b>	Year 3/4			
<b>Teacher's Name</b>	Chris Charalambous			
<b>ECTS</b>	6	<b>Lectures / week</b>	3	<b>Laboratories / week</b>
<b>Course Purpose and Objectives</b>	This course is an introduction to the concepts, principles, problems, and practices of operations management. Emphasis is on managerial processes for effective operations in both goods-producing and service-rendering organization. Topics include operations strategy, process design, capacity planning, facilities location and design, forecasting, production scheduling, inventory control, quality assurance, and project management. The topics are integrated using a systems model of the operations of an organization.			
<b>Learning Outcomes</b>	<ul style="list-style-type: none"> <li>• Communicate the major concepts in the functional areas of accounting, marketing, finance, information technology, and management.</li> <li>• Describe the legal, social, ethical, and economic environments of business in a global context.</li> <li>• Solve organization problems, individually and/or in teams, using quantitative, qualitative, and technology-enhanced approaches.</li> <li>• Demonstrate professional communication and behavior.</li> <li>• Apply knowledge of business concepts and functions in an integrated manner.</li> </ul>			
<b>Prerequisites</b>		<b>Required</b>	SENIOR STANDING	
<b>Course Content</b>	Ch. 1 Introduction to Operations Management Ch. 2 Competitiveness, Strategy, and Productivity Ch. 3 Forecasting Ch. 4 Product and Service Design SUPPLEMENT TO CHAPTER 4: Reliability Ch. 5 Strategic Capacity Planning for Products and Services SUPPLEMENT TO CHAPTER 5: Decision Theory Ch. 6 Process Selection and Facility Layout Ch. 7 Work Design and Measurement SUPPLEMENT TO CHAPTER 7: Learning Curves Ch. 8 Location Planning and Analysis Ch. 9 Management of Quality Ch. 10 Quality Control			

	<p>Ch. 11 Aggregate Planning and Master Scheduling</p> <p>Ch. 12 Inventory Management</p> <p>Ch. 13 MRP and ERP</p> <p>Ch. 14 JIT and Lean Operations</p> <p>SUPPLEMENT TO CHAPTER 14: Maintenance</p> <p>Ch. 15 Supply Chain Management</p> <p>Ch. 16 Scheduling</p> <p>Ch. 17 Project Management</p> <p>Ch. 18 Management of Waiting Lines</p> <p>Ch. 19 Linear Programming</p> <p>Appendix A: Answers to Selected Problems</p> <p>Appendix B: Tables</p> <p>Appendix C: Working with the Normal Distribution</p> <p>Appendix D: Ten Things to Remember Beyond the Final Exam</p>								
<b>Teaching Methodology</b>	<ul style="list-style-type: none"> <li>•Reading and resolving problems</li> <li>•Working on problem-solving</li> <li>•Attendance and participation in class</li> <li>•Monitor discussions</li> <li>•Writing and reply on objective type questions</li> <li>•Solving unstructured questions and case studies</li> <li>•Brief oral presentation before starting a new chapter and reply to queries from students</li> <li>•Homework for revision purposes</li> <li>•Interaction and collaborative learning</li> <li>•Simulation</li> <li>•Video Watching</li> </ul>								
<b>Bibliography</b>	<p style="text-align: center;"><b>1- Operations Management</b></p> <p>2<sup>nd</sup> Edition  By Gerard Cachon and Christian Terwiesch  ISBN10: 1260238873  ISBN13: 9781260238877  Copyright: 2020</p> <p style="text-align: center;"><b>2- Operations Management</b></p> <p>14<sup>th</sup> Edition  By William J Stevenson  © 2021    Published: January 15, 2020</p>								
<b>Assessment</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Participation</td> <td style="text-align: right;">10%</td> </tr> <tr> <td>Midterm Exam</td> <td style="text-align: right;">30%</td> </tr> <tr> <td>Project</td> <td style="text-align: right;">20%</td> </tr> <tr> <td>Final Exam</td> <td style="text-align: right;">40%</td> </tr> </table>	Participation	10%	Midterm Exam	30%	Project	20%	Final Exam	40%
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Project	20%								
Final Exam	40%								
<b>Language</b>	English								