## Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
EM 522	Production Management	2	4	0	0	3	8

Prerequisites	
Admission Requirements	

	Tourish	
Language of Instruction	Turkish	
Course Type	Compulsory	
Course Level	Masters Degree	
Objective	The aim of this course is to present the concepts used in effective management of production systems and to learn how to develop solutions for problems related to the operations management.	
Content	Week 1.: Presentation in chronological order techniques and nomenclature used in operations management.  Week 2.: Supply chain strategy, supply chain performance measurement, bullwhip effect, outsourcing,	
	mass customization.  Week 3.: Strategic capacity management, capacity utilization, economies of scale, learning curve.  Week 4.: Lean production, Toyota Production System.	
	Week 5.: Demand management, qualitative forecasting methods, quantitative forecasting methods.  Week 6.: Aggregate sales and operations planning	
	Week 7.: Inventory control, inventory costs, inventory models  Week 8.: Materials requirements planning, Push and Pull systems, Manufacturing Resource Planning.  Week 9.: Midterm exam	
	Week 10.: Process analysis, process flowcharting, process performance measurement.  Week 11.: Manufacturing process selection and design.	
	Week 12.: Service process selection and design.  Week 13.: Quality management, Total Quality Management, Six Sigma Quality, Benchmarking, ISO standards, service quality measurement.	
	Week 14.: Product design, product development process, quality function deployment.	
References	<ul> <li>Kobu, B., Üretim Yönetimi, Beta Basım A.Ş., 13. Baskı, 2006.</li> <li>Chase, R.B., Jacobs, F.R., Aquilano, N.J., Operations Management for Competitive Advantage, McGraw-Hill, 11. Baskı, 2006.</li> <li>Cases related to the topics</li> </ul>	

## Theory Topics

Week	Weekly Contents	
1	Presentation in chronological order techniques and nomenclature used in operations management	
2	Supply chain strategy, supply chain performance measurement, bullwhip effect, outsourcing, mass customization	
3	Strategic capacity management, capacity utilization, economies of scale, learning curve	
4	Lean production, Toyota Production System	
5	Demand management, qualitative forecasting methods, quantitative forecasting methods	
6	Aggregate sales and operations planning	
7	Inventory control, inventory costs, inventory models	
8	Materials requirements planning, Push and Pull systems, Manufacturing Resource Planning	
9	Midterm exam	

Week	Weekly Contents	
10	Process analysis, process flowcharting, process performance measurement	
11	Manufacturing process selection and design	
12	Service process selection and design	
13	Quality management, Total Quality Management, Six Sigma Quality, Benchmarking, ISO standards, service quality measurement	
14	Product design, product development process, quality function deployment	