Identification	**Subject**	**MGT 440 – Production and Operations Management– 3KU credits (6 ECTS)**
	Program	Undergraduate
	Department	Economics and Management
	Term	Fall 2022
	Instructor	Khumar Huseynova, khumar.huseynova@khazar.org
	Classroom/hours	to be defined 41 Mehseti street (Neftchilar campus), Khazar University, virtual class
Prerequisites	**MGT 310** Management and Organization	
Language	English	
Compulsory/Elective	Compulsory	
Textbooks and course materials	Principles of Operations Management, Sustainability and Supply Chain by Jay Heither, Barry Render, Chuck Munson 12th edition Pearson (earlier editions 10th edition and 9th edition Prentice Hall 2013)	
Course objectives	*Generic Objective of the Course:* ▪ To provide students with the core concepts, methods and techniques of operations management *Specific Objectives of the Course:* ▪ Introduction to operations management through global environment and Operations strategy, managing projects and forecasting demand ▪ To learn methods and tools to design operations Acquire some practical skills and managerial way of thinking of managing operations	
Course outline	This course is designed for Bachelor students. Examines problems encountered in planning, operating, and controlling production of goods and services. Topics include:quality assurance, production systems, project management, and inventory management, forecasting and capacity management, computer and quantitative models used in formulating managerial problems.	
Learning outcomes	Desired learning outcomes will be: Throughout the course, students will be exposed to several key concepts and theories of the operations management. Learners will be able to define operational management by learning, for example, main distinctions between goods and services, production and productivity, identify mission and strategy of the course by getting the knowledge about three strategic approaches to competitive advantage and four global operation strategies. For scheduling projects students will be introduced Gantt chart and draw AOA and AON networks, which gives opportunities to complete the project at a certain date. By taking the course learners will understand production processes, product life cycle, product structure and international quality standards. Students will also get a grasp of important components of forecasting, such as methods and models applied to get the results for the future dates. Furthermore, making location decisions will also be introduced, which helps to identify the best location for service or industrial-sector by using several methods and analyzing factors that affect it. Finally, students will obtain key aspects of supply-chain management and inventory management, aggregate planning using linear programming and strategy making in OM.	
Teaching methods	**Case analysis**	x
	Group discussion	x
	Experiential exercise	x
	Lecture	x

Evaluation Criteria	**Methods**	**Date/deadlines**	**Percentage (%)**
	Midterm Exam		30
	Attendance		5
	Activity		5
	Case presentations and discussions (cases from chapters)		5
	Project 1		10
	Project 2		10

	Final Exam		35
	Total		100

Policy	**Midterm Exam (***Exam will include problem solutions and open questions)* **Activity** (Students should participate in class activities such as problem solutions) A student has to be attentive and participate in class discussions **Attendance** A student has to have an open camera during online classes. Otherwise, he/she will not be considered in the class **Case presentations and discussions** A student will have a case to study and present with his analysis and comments **Project 1** aims at developing the students` general knowledge as future operations managers. They will be involved to attend short courses in edu.e-cbar.az. **Project 2** aims to develop team spirit, project management and time management of future operations managers via interesting events. **Final Exam (***Exam will include problem solutions and open questions)*

Week	**Date/Day**	**Topics**	**Assignments**
1		Introduction to the Course. Operations and productivity.	Ch.1
2		Operations strategy in a Global Environment.	Ch2
3		Project Management.	Ch.3
4		Forecasting.	Ch4
5		Design of Goods and Services S5. Sustainability.	Ch.5/ Supplement 5
6		Managing Quality. S6. Statistical Process Control	Ch.6 Supplement 6
7		Process Strategy. S7Capacity and Constraint Management.	Ch.7 Supplement 7
8		Layout Strategies.	Ch.9
9		**Mid-term**	
10		Human Resources, Job Design, and Work Measurement.	Ch.10
11		Supply-Chain Management. Supply Chain Management Analytics	Ch.11, Supplement 11
12		Inventory Management; Just-in-Time, TPS, and Lean Operations/	Ch.12, Ch16
13		Aggregate Planning and S&OP	Ch.13 Ch. 14
14		Short-Term Scheduling Material Requirements Planning (MRP) and ERP	Ch.15, Ch.16
15		Maintenance and Reliability. **Case presentation**	Ch.17
16		**Final exam**	