



Course Weekly Outline

Course Lecturer	Hani Fadhil Jumaah Al-Shawi			
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Title	Production and operation management			
Course Coordinator	Semester system			
Course Objective	<p>Understand the areas of benefit from production and operations in management practices</p> <p>Developing students' mental abilities in the theoretical and quantitative fields by describing the course of Production and Operations Management, which has many quantitative and qualitative applications, and the formation of an overall understanding of them.</p> <p>Developing awareness about all non-quantitative production and operations fields that contribute to developing the reality of administrative practices.</p>			
Course Description	The theoretical approach relates to basic concepts about production and operations management, productivity, methods of increasing productivity, traditional and modern production systems and patterns, location, demand, internal arrangement, energy, succession and forecasting			
Textbook	<ol style="list-style-type: none"> 1. Artificial intelligence ,Arab British Academy for H.Eco. 2. Production and Operations Management (2006) Abdul Karim Mohsen and Sabah Majeed Al-Najjar. 3. Production and Operations Management, written by Dr. Ghassan Qassem Al-Lami, color edition 2008. 4. In addition to binding in Production and Operations Management, 2017, Prof. Dr. Hani Fadhil Al-Shawi. 			
References	<ol style="list-style-type: none"> 1. Controlling Production Processes: A Quantitative Approach, edited by Abdul Sattar Al Ali, Amman, Jordan, 2010. 2. Production Operations Management, Khaled Obeidat, Amman, Jordan, 2011. 3. Production and operation management, Hizer & Render, 2006, u.s.a. 2nd edition. 			
Course Assessment	Term Exam	Project	Quizzes and Attendance	Final Exam
	20	---	20	60
General Notes	The chapters related to maintenance, reliability, availability, traditional availability, engineering availability, balancing production lines, and all plans related to statistical quality to closely develop students' abilities in these topics.			



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Week	Date	Topics Covered	Number of Hours	Notes
1	4-10-2022	The concept of production and operations (types of industries, extractive, aggregate, mixture and the like, and approaches to the study of production and operations) system entrance, job entrance and ten decisions entrance) basics, concepts, entrances and decisions production and operations	3	review
2	2022-10-11	The concept of transfer operations, the difference between the transferred resource and the transformed resource, the difference between service and commodity, and methods of increasing productivity quantitatively and theoretically. Referring in general to the meaning of production and productivity, while talking theoretically about other related measures	3	Quantitative applications in methods of increasing productivity
3	2022-10-18	The system and its components and the difference between the commodity system and the service and mixed system	3	Illustrations on the board
4	2022-10-23	Production, productivity and its indicators efficiency and effectiveness indicators And the difference between them and types of productivity and productivity developed. In addition to passing on the issue of the fusion of the commodity system with the service system	3	Quantitative applications
5	2022-10-30	Activities Responsible for Production and Operations Management direct and indirect	3	With pumping exercises and solving many exercises
6	2022-11-7	production management goals Such as specialized goals and performance goals (flexibility, speed, low cost, creativity, quality and reliability).(3	with the lecture
7	2022-11-14	Production and Operations Management Strategies Inner and outer balance Internal and external support	3	homework for students
8	2022-11-21	Internal and external failure costs, prevention and correction	3	Illustrative charts on the board
9	2022-11-29	Maintenance, its importance, objectives and types, and the difference between curative, preventive and parallel, consecutive and mixed maintenance Traditional and engineering availability, number of outages and lack of abundance	3	Detailed explanation and repeat
10	2022-12-5	Forecasting sales demand	3	For the purpose of understanding the idea well by the students

11	2022-12-12	Qualitative methods for forecasting demand	3	Delving into the strategic interpretation and the stages of preparing production strategies and operations, according to the size, philosophy and nature of the organization's production.
12	2022-12-19	Quantitative methods for forecasting demand	3	Exercises on types of maintenance, many home duties, and solving final questions related to maintenance
.13	2022-12-26	Calculation of the overtaking signal t.s. With the drawing of the upper, middle and lower control limits for overtaking and the electronic whistle when an overtaking signal appears.	3	And give gas, different topics in it
14	2022-12-31	Location and factors affecting its choice	3	A comprehensive explanation of all qualitative methods such as the Delphi method and estimates of salesmen
15	2022-1-24	Production capacity and its types and methods of calculating each type	3	Executive governance (committees) and market research by collecting data via a questionnaire

Lecturer signature

Head of Department Signature