

**Ministry of Higher Education and Scientific Research  
Scientific Supervision and Scientific Evaluation Apparatus  
Directorate of Quality Assurance and Academic Accreditation  
Accreditation Department**



## **Course description for Production and Operations Management**

**2024/3/13**

**Signature:**

**Head of Department Name:**

**Dr. Hadi Abdel Wahab**

**Date:2024/3/13**

**Signature:**

**Lecturer Name: Dr. Shatha Ahmed**

**Asst.Lecturer.Doaa Shaheed**

**Date:13/3/2024**

## Course description for Production and Operations Management

<b>1. Course Name:</b>					
Production and operations management					
<b>2. Course Code:</b>					
<b>3. Semester / Year:</b>					
Semester					
<b>4. Description Preparation Date:</b>					
<b>2024/3/13</b>					
<b>5. Available Attendance Forms:</b>					
Weekly/theoretically					
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>					
Number of Credit Hours (Total)= 45 / Number of Units (Total) =3					
<b>7. Course administrator's name (mention all, if more than one name)</b>					
Name: <b>Dr. Shatha Ahmed Alwan</b>					
Email: <a href="mailto:shatha.alwaan@uobasrah.edu.iq">shatha.alwaan@uobasrah.edu.iq</a>					
Name: <b>Asst.Lecturer.Doaa Shaheed Habeeb</b>					
Email: <a href="mailto:doaa.shaheed@uobasrah.edu.iq">doaa.shaheed@uobasrah.edu.iq</a>					
<b>8. Course Objectives</b>					
<b>Course Objectives (Production and Operations Management)</b>	<ol style="list-style-type: none"> <li>1- Understanding the areas of benefit from production and operations in administrative practices.</li> <li>2- Forming a general perception of mathematical applications in The field of production and operations.</li> <li>3- Develop awareness of non-quantitative process areas Which contributes to developing the reality of administrative practices.</li> </ol>				
<b>9. Teaching and Learning Strategies</b>					
<b>Strategy</b>	<ol style="list-style-type: none"> <li>1- Lectures</li> <li>2- Presenting a paper on some modern concepts</li> <li>3- Providing applied assignments for quantitative topics</li> <li>4- Brainstorming method</li> </ol>				
<b>10. Course Structure</b>					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Understand the basics of production and operations management	<ul style="list-style-type: none"> <li>- Introduction to production management</li> <li>- Definition of basic concepts</li> </ul>	Lectures	Interaction, answering questions and discussion
2	3	Understanding the process of development	<ol style="list-style-type: none"> <li>1- Historical development of production management</li> <li>2- Operations management in organizations</li> </ol>	Lectures	Interaction, answering questions

		and understanding basic metrics	3- Manufacturing and providing service 4- Productivity, efficiency effectiveness		and discussion
3	3	Understanding the strategic role of production management	Introduction to defining comp strategy, business, and operations	Lectures	Interaction, answering questions and discussion
4	3	Analyzing the basic decisions of production strategy	Strategic decisions and operational decisions in operations	Lectures	Interaction, answering questions and discussion
5	3	Identify the role of forecasting in the production process	Demand forecasting 1-The concept of demand forecasting, its types and objectives 2- Factors affecting prediction 3- Qualitative forecasting methods	Lectures	Interaction, answering questions and discussion
6	3	Using quantitative methods in the analysis process	4-Quantitative forecasting methods 5-Time series 6- Exponential smoothing (simple and directionally modified) 7- Least squares	Lectures	Interaction, answering questions and discussion
7	3	Exam	Exam	Exam	Answer exam questions
8	3	Diagnosticar la forma correcta de predecir e identificar desviaciones.	Measuring prediction error 1- Mean square error (MSE). 2- Average absolute deviation (MAD)	Lectures	Interaction, answering questions and discussion
9	3	Identificar el producto o servicio	Product/service planning 1- Planning the new product 2-Stages of new product development 3-Considerations that must be taken into account Serious product design	Lectures	Interaction, answering questions and discussion
10	3	Product life cycle analysis from the	4-Criteria for evaluating new product performance 5-The life cycle of the new product	Lectures	Interaction, answering questions

		operational side			and discussion
11	3	Analyzing energy levels and understanding the most important basic metrics	1-Types of energy (design, active and actual) 2-Energy meters (efficiency and use)	Lectures	Interaction, answering questions and discussion
12	3	Learn about the process of choosing a site or creating new sites	Choose a factory location 1-Factors influencing site selection 2- Modern trends in selection The location	Lectures	Interaction, answering questions and discussion
13	3	Application of quantitative methods in the comparison process between sites	3-Methods for choosing a factory location 4-Location break-even analysis Qualitative evaluation 5-method (points)	Lectures	Interaction, answering questions and discussion
14	3	How to choose the most appropriate arrangement with the type of focus of the production process	Internal soiling 1- Types of internal training and its suitability to production systems 2- Arrangement based on process (Definition, explanatory diagram, and problems) 5- Arranging based on the product (definition, explanatory chart, and problems)	Lectures	Interaction, answering questions and discussion
15	3	Exam	Exam	Exam	Answer exam questions

#### 11. Course Evaluation

Participation in the lecture = 5  
Submit reports = 5  
Daily attendance = 5  
Daily Quiz = 5  
Quarterly evaluation = 30  
Final rating = 50

## 12.Learning and Teaching Resources

Required textbooks (curricular books if any)	
Main references (sources)	Production and Operations Management (concepts, basics, processes, and applied examples) Dr. Sabah Majeed Al-Najjar & Dr. Abdul Karim Mohsen
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	<a href="https://www.noor-book.com/%D9%83%D8%AA%D8%A7%D8%A8-%D8%A7%D8%AF%D8%A7%D8%B1%D9%87-%D8%A7%D9%84%D8%A7%D9%86%D8%AA%D8%A7%D8%A8%D9%88%D8%A7%D9%84%D8%B9%D9%85%D9%84%D9%8A%D8%AA-700-pdf">https://www.noor-book.com/%D9%83%D8%AA%D8%A7%D8%A8-%D8%A7%D8%AF%D8%A7%D8%B1%D9%87-%D8%A7%D9%84%D8%A7%D9%86%D8%AA%D8%A7%D8%A8%D9%88%D8%A7%D9%84%D8%B9%D9%85%D9%84%D9%8A%D8%AA-700-pdf</a>