



Future Academy
Higher Future Institute for Specialized Technological Studies

Course Specification

1- Course information:

Course Code:	314
Course Title:	Production and operations Management
Year/level	2 nd
Academic Programs	Business Administration Program (B.Sc.)
Contact hours/ week	Theoretical 3 hrs. / Tutorial 2 hrs. = Total 5 hrs.

2- Course aims:

The business organization faced in the last two century development in the philosophy ,systems and the business strategies , which had a clear reflection on the management trends in the production, marketing, purchasing process ,since it is centered around the concepts of added value , competitive advantages, quality, and operation in modern projects , which is related with the development of the production system and production system design , in addition to the organization aspects for the industrial projects , planning the production process, and operating economics, by concentrating on operation research and its usage in the production field , and also the modern development in the management philosophy in this vital field such as the comprehensive quality and rebuilding the engineering process and 6 sigma, in which it support the operation and production process in the modern projects.

3- Intended learning outcomes of the course (ILOs):

a- Knowledge and understanding:

On successful completion of this course, the student should be able to:

- a1- Recognize the historical evolution of operation management
- a2- Understand the challenges in dealing with production function and its strategies
- a3-Realize production techniques and decision making
- a4-Understand the internal planning for the factory

b- Intellectual skills:

On completing this course, the student should be able to:

- b1- Apply the ideas of quantity and quality control on production
- b2-Assess TQM model and their implementation
- b3- Discuss manufacturing or service sectors

b4- Compare between locations

c- Professional and practical skills:

At the end of this course, the student will be able to:

c1- Acquire the principles of operation management

c2- Use Quality management strategies and plan efficiently

c3- Evaluate and develop productivity solutions processes

d- General and transferable skills:

On successful completion of this course, the student should be able to:

d1- Manage time effectively

d2- Enrich the students' knowledge and thoughts through continuous self-learning

d3- Demonstrate their ideas and thoughts in work groups

d4- Develop and enhance work methods continuously

4- Course contents

Week No.	Topics/units	Number of hours		ILO's
		Lecture hours	Tutorial hours	
1	Introduction to OM	3	2	a1,b3,c4,d2
2	Competitiveness	3	2	a4,b3,c2,d3
3	Strategies and productivity	3	2	a2,b3,c2,d4
4	Revision + Quiz 1	3	2	a2,b3,c2,d1
5	Productivity problems	3	2	a3,b4,c3,d3
6	Productivity growth	3	2	a4,b2,c1,d1
7	Midterm Exam	3		a3,b3,b4
8	Forecasting	3	2	a1,b3, c4,d2
9	Forecasting problems	3	2	a3,b1.c4
10	Forecasting Error	3	2	a4,b3,c2,d2
11	Revision + Quiz 2	3	2	a4,b3,c2
12	Total quality management	3	2	a2,b2,c1,d2
13	Revision	3	2	a3,b2,c1
14	Final Revision	3	2	a3,b2,c1,d3

5- Teaching and learning methods

Methods	ILO's																			
	a1	a2	a3	a4	a5	b1	b2	b3	b4	b5	c1	c2	c3	c4	c5	d1	d2	d3	d4	d5
Lectures	√	√	√	√		√	√	√	√		√	√	√	√		√	√	√		√
Practical sections/Tutorials																				
Self-learning	√					√						√				√				

Assays and reviews	√		√				√				√			√			
Discussion groups																	
Problem-solving	√		√	√			√	√		√					√		
E-learning																	
Blended learning																	

6- Teaching and learning methods for Low-achieving students

- Extra teaching hours for those who need help
- More quizzes to assess their ability for understanding the course
- Encourage the team work for those students with other advanced ones to increase their participation and understanding

7- Student assessment

Assessment method	Time	Grade weight (%)	Week	ILOs
Course Work (Tutorial Exercise and Assignments)		10	Every week	a1,b2,c3,d1
Quiz 1	1	10	Week#4	a2,b2,b3
Mid-term exam	1	20	Week#7	a3,b3,b4
Quiz 2	1	10	Week#11	a4,b3,b4
Final Written exam	2	50	----	a1,b2,b3,b4

8-List of references

8.1. Student notebooks:

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8.2. Essential textbooks: Operation Management, William Stevenson, Tenth edition, 2009

8.3. Recommended textbooks:

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8.4. Journals, Periodical and Reportsetc.

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8.5. Websites

Course Coordinator: Dr. Reem Aboualnile

Head of department: Associate professor Dr. Mohamed Elbaz

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