

Course Description: Operations Management

Syrian Arab Republic Ministry of Higher Education Syrian Virtual University



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Course Description: Operations Management

1. Basic Information:

Course Name	Operations Management
Course ID	BQM301
Contact Hours (Registered Sessions)	18
Contact Hours (Synchronized Sessions)	18
Mid Term Exam	
Exam	75 min
Registered Sessions Work Load	18
Synchronized Session Work Load	18
Credit Hours	4

2. Pre-Requisites:

Course	ID
Fundamentals of Financial Management	BFB201

3. Course General Objectives:

This course provides students with the necessary concepts and tools enabling them to manage production and services operations, and taking into account the important role of information and telecommunication technology in the functions and activities of Operations Management. In this course, students learn how to develop products, services and strategies; in addition to learn methods of planning production capacities, forecasting, demand, and assuring production resources and tools. Layout of the organization plants and the internal layout of facilities are also discussed. Issues related to process and product quality are underlined.

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4. Intended Learning Outcomes (ILO):

Code	Intended Learning Outcomes								
ILO1	Enabling students to understand operations management concepts in a context of								
ILUI	different challenges facing products and services production.								
ILO2	Helping students to assimilate products development tools and phases, and clarify								
ILU2	services particularities.								
ILO3	Introducing production process and technology, in addition to plant internal layout.								
Enabling students to assimilate production planning and organization according									
ILU4	production system and demands forecasting.								
ILO5	Making sure that students are aware of plant location importance and Plant								
ILU3	Selection Criteria.								
ILO6	Enabling students to understand total quality control and management, and its tools								
ILO	in operations management.								
ILO7	Helping students to assimilate inventory management importance and to								
ILO /	acknowledge its management techniques.								
ILO8	Introducing Just-In-Time operations achievement and its main tools.								
ILO9	Focusing on maintenance management importance and acknowledging its main								
ILUJ	tools.								

5. Course Syllabus (18 hours of total synchronized sessions;18 hours of total Recorded Sessions)

• RS: Recorded Sessions; SS: Synchronized Sessions

ILO	Course Syllabus	RS	SS	Туре	Additional Notes
	Principal concepts in operations	1.5		□ Exercises	Annex:Historical
ILO1	management		1.5	■ Assignments	Review
	 Operations and 			□ Seminars	In this course,

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Production



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production management. **Projects** theoretical and Operations management **Practices** practical parts are activities Others integrated together Operations management challenges and productivity Production and services industry Operations strategies Professional ethics and social responsibilities. **Products** development and design New products planning. Product life cycle **Exercises** development Product Assignments In this course, phases Seminars theoretical and ILO₂ Technical issues in 1.5 1.5 **Projects** practical parts are product development **Practices** integrated together. design Service Others particularity Application of decision tools to select the best design Process design internal Exercises this and In course, ILO3 layout 1.5 1.5 Assignments theoretical and

Seminars

practical

parts

are

process

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	design concept			Projects	integrated together.
	 Production strategies 			□ Practices	
	 Production technologies 			□ Others	
	 Internal layout and its 				
	different types				
	Production capacities planning				
	What's production				
	planning?				
	 Production systems 				
	 production planning in 				
	assembly industry				
	 production organization 				
	production general				
	control and its models			Exercises	
	 production planning and 			■ Assignments	In this course,
ILO4	control in continuous &	6	6	□ Seminars	theoretical and
ILO4	discontinuous production	O	U	□ Projects	practical parts are
	Material Requirement planning			Practices	integrated together.
	 Determination of 			□ Others	
	production batch size				
	 Calculation of 				
	requirements MRP				
	Master Production				
	Management				
	Demand Forecasting				
	 Demand forecasting 				
	concepts				

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	 Time Series 				
	 Forecasting Error 				
	• Linear Regression				
	models				
	 Auditing and control on 				
	forecasting systems				
	Location				
	 Importance and criteria of 				
	location			x Exercises	
	 Globalization effect on 			■ Assignments	In this course,
II 05	location selection	1.5	1.5	□ Seminars	theoretical and
ILO5	 Location selection 	1.3	1.3	□ Projects	practical parts are
	methods			□ Practices	integrated together.
	 Role of government 			□ Others	
	policies in location				
	selection.				
	Quality Control				
	 Concepts in quality 				
	control and management			▼ Exercises	
	 Quality costs 			Assignments	In this course,
	 International 			☐ Seminars	In this course, theoretical and
ILO6	Standardization	1.5	1.5		
	Organization			,	
	• Total Quality			☐ Practices	integrated together.
	Management and its tools			□ Others	
	 Additional issues in 				
	quality control				

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	Inventory Management &				
	Applications			E Exercises	
	General Principles in Inventory Management			★ Assignments	In this course,
ILO7	Inventory ManagementABC method	1.5	1.5	□ Seminars	theoretical and
ILO /	 Principal Systems in 	1.3	1.3	□ Projects	practical parts are
	Inventory Management			□ Practices	integrated together.
	 simple Models in 			□ Others	
	Inventory Management				
	Just In Time			≭ Exercises	
ILO8	 Concept of Just In time 			Assignments	In this course,
	 Philosophy and 	1.5	1 7	□ Seminars	theoretical and
	objectives of Just In	1.5	1.5	□ Projects	practical parts are
	Time.			□ Practices	integrated together.
	 Cards system KANABN 			□ Others	
	Maintenance Management				
	 Corrective Maintenance 				
	 Preventive Maintenance 				
	 Personnel Management& 			Exercises	
	incentives theory			Assignments	In this course,
ILO9	 Traditional organization of 	1.5	1.5	□ Seminars	theoretical and
	maintenance unity			□ Projects	practical parts are
	 Spare parts inventory 			□ Practices	integrated together.
	management			☐ Others	
	Real observation of machines, utilization rate				
	machines' utilization rate				
	& availability				

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 Optimal organization of 	
corrective maintenance	
• Selecting the best	
method of maintenance	

6. Assessment Criteria (Related to ILOs)

ISC	Interactive Syn	chronize	d Collaboration	Ex	Exams		Rpt	Reports	
PF2F	Presentations	and	Face-to-Face	PW	Practice W	ork	<		
FFZF	Assessments								

ILO				Asse	ssmen	t Type	
Code	ILO	Intended Results	ISC	PW	Ex	PF2F	Rpt
ILO1	Enabling students to understand operations management concepts in a context of different challenges facing products and services production.		X		X		X
ILO2	Helping students to assimilate products development tools and phases, and clarify services particularities		Х		Х		Х
ILO3	Introducing production process and technology, in addition to plant internal layout.		X		X		X
ILO4	Enabling students to assimilate production planning and		Х	Х	X		X

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	organization according to						
	production system and demands						
	forecasting						
	Making sure that students are						
ILO5	aware of plant location		X	X	X		X
ILOS	importance and Plant Selection		^	^	^		^
	Criteria.						
ILO6	Enabling students to understand						
	total quality control and		X		X		X
	management, and its tools in						^
	operations management						
	Helping students to assimilate		X	X	X		
ILO7	inventory management						X
ILO /	importance and to acknowledge		^				^
	its management techniques						
	Introducing Just-In-Time						
ILO8	operations achievement and its		X		X		Χ
	main tools						
	Focusing on maintenance						
ILO9	management importance and		X		X		Χ
	acknowledging its main tools						

7. Practice Tools:

Tool Name	Description

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8. Main References

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