



Course Specification

— (Bachelor)

Course Title: Production & Operations Management
Course Code: ADMN 318
Program: Bachelor in Business Administration
Department: Business and Marketing
College: College of Business
Institution: Jazan University
Version: <i>Course Specification Version Number</i>
Last Revision Date: <i>Pick Revision Date.</i>

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A. General information about the course:

1. Course Identification

1. Credit hours: (3)

2. Course type

- A. ☐ University ☐ College ☒ Department ☐ Track ☐ Others
- B. ☒ Required ☐ Elective

3. Level/year at which this course is offered: (9th level/3rd year)

4. Course general Description:

Production and operation are the resources and the processes, by which an organization transforms inputs (e.g., labor, material, and knowledge) into outputs (products and/or services). This course provides proper understanding about different issues related to production & operation functions of an organization. This course focuses on the basic concepts and tools employed by operations/production managers to provide their organizations with competitive advantages in terms of operations strategy, process design, quality, supply chain management, and resource planning and utilization. Further, the course focuses on how Production & Operation is created, captured, represented, stored and reused so as to fully leverage the intellectual assets of a firm. This course introduces the students to the theory and practice of production management as a functional area in the management of enterprise.

5. Pre-requirements for this course (if any):

N/A

6. Co-requisites for this course (if any):

N/A

7. Course Main Objective(s):

1. This course provides a general introduction to production and operations management. This course going to study the main concepts, tools and quantitative models that companies use to manage their production and operations.



2. To equip students with the required skills in the field of Production & Operation Management. Therefore, to make students realize about the importance of production planning, plant layout & maintenance and work study etc.
3. To acquaint the students with the developments, techniques and tools in the emerging era of Production & Operation management and how Production & Operation based organization can plan, design and implement a Production & Operation management system to support its business strategy and derive competitive advantages.
4. Ability to use basic analytical tools and methods mentioned above for the planning and management in the area of production and operations.
5. Why should you study operations management? Some students who enroll in this course will start their own companies or go to work in the operations of a manufacturing or service company; for these people the course is essential. On the completion of this course, the students are expected to have better understanding in the field of Production & Operations Management. So, the students will develop their analytical and oral communication skills via case study work carried out in seminar sessions.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	33	100%
2	E-learning		
3	Hybrid <ul style="list-style-type: none"> Traditional classroom E-learning 		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	33
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	





5.	Others (specify)	
Total		33

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Demonstrate a level of knowledge with flexibility and creativity and adapt them to new situations and contexts.	K1	<ul style="list-style-type: none"> ■ Lectures ■ Group discussions ■ Individual and collaborative activities ■ Pair and group discussions 	<ul style="list-style-type: none"> ■ Midterms ■ Final exam ■ Quizzes ■ Class participation ■ Assignments
1.2	Outline the production & operation management issues and its linkage to corporate strategy and market analysis	K2	<ul style="list-style-type: none"> ■ Lectures ■ Group discussions ■ Individual and collaborative activities ■ Pair and group discussions 	<ul style="list-style-type: none"> ■ Midterms ■ Final exam ■ Quizzes ■ Class participation ■ Assignments
1.3	Describe production & operation system and its function	K1	<ul style="list-style-type: none"> ■ Lectures ■ Group discussions ■ Individual and collaborative activities ■ Pair and group discussions 	<ul style="list-style-type: none"> ■ Midterms ■ Final exam ■ Quizzes ■ Class participation ■ Assignments
2.0	Skills			
2.1	Communicate effectively, explain,	S1	<ul style="list-style-type: none"> ■ Lectures 	<ul style="list-style-type: none"> ■ Midterms ■ Final exam





Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
	justify, and defend their recommended techniques in business and management plan		<ul style="list-style-type: none"> Group discussions Individual and collaborative activities Pair and group discussions 	<ul style="list-style-type: none"> Individual Assignments Group Assignment
2.2	Interpret different tools and techniques to determine appropriate procedures and processes involved review and critique a performance of work.	S2	<ul style="list-style-type: none"> Lectures Group discussions Individual and collaborative activities Pair and group discussions 	<ul style="list-style-type: none"> Midterms Final exam Individual Assignment Group Assignment
2.3	Evaluate and analyze to draw well-supported conclusions and solve problems	S3	<ul style="list-style-type: none"> Lectures Group discussions Individual and collaborative activities Pair and group discussions 	<ul style="list-style-type: none"> Midterms Final exam Individual Assignment Group Assignment
3.0	Values, autonomy, and responsibility			
3.1	Analyze how operations strategy, process choice, technology management, and managerial decision making	V1	<ul style="list-style-type: none"> Individual problem-solving activities Pair and group discussions and activities 	<ul style="list-style-type: none"> Class participation Observation Individual Assignments Group Assignment
3.2	Justify for the results of one's own actions as well as those of the persons one directs	V2	<ul style="list-style-type: none"> Individual problem-solving activities Pair and group discussions and activities 	<ul style="list-style-type: none"> Class participation Observation Individual Assignments





Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
				■ Group Assignment

C. Course Content

No	List of Topics	Contact Hours
1.	Unit 1. Introduction to Production and Operations Management: Meaning Productions/operations management	3
2.	Unit 1. Introduction to Production and Operations Management: Concept of Production,	3
3.	Production System, Production Management	3
4.	Unit 2. Productions and Operations Functions: Managing Global Operations, Scope of Productions and Operations Management.	3
5.	Unit 2. Productions and Operations Functions: Product Design, Process Design, Production Planning and Control, Quality Control, Materials Management and Maintenance Management	3
6.	Revision & Mid Term Exam	3
7.	Unit 3. Forecasting, Facility Planning and Project Management	3
8.	Types of Forecasting, Elements of Forecasting, Basic Categories of Forecasting methods.	3
9.	Unit 3. Forecasting, Facility Planning and Project Management: Definition of Facilities Planning. Break Even Analysis.	3
10.	Unit 3. Forecasting, Facility Planning and Project Management: Production, Planning and Control, Project Management.	3
11.	Unit 4. Modern Trends in Manufacturing: Basic Concepts of CAD, Structure of FMS. Advantages of FMS, JIT.	3
Total		33

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Class participation, Assignments	1 - 10th	10%
2.	Quiz 1, 2	9 - 10th	10%
3.	Midterm	Week 5 & 6	30%





No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
4.	Final exam	Week 12& 13	50%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Chase, R. B., Jacobs, F. R., & Aquilano, N. J. (2010). Operation management for competitive advantage. 12th Edition McGraw Hill Publications
Supportive References	Krajewski, L. J., Malhotra, M. K., and Ritzman, L. (2018). Operations Management: Processes and Supply Chains (What's New in Operations Management) 12th Edition. Pearson/Prentice-Hall.
Electronic Materials	https://www.amazon.com/Operations-Management-Processes-Supply-Chains/dp/0134741064 https://onlinelibrary.wiley.com/journal/19375956 https://www.managementstudyguide.com/production-and-operations-management.htm
Other Learning Materials	Other learning material such as computer-based programs/CD, professional standards or regulations and software.

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classrooms to facilitate student engagement ,collaboration and connection between lecturer and student with: <ul style="list-style-type: none"> ■ Movable tables and chairs conducive to group discussion and group work. ■ Good lighting control.
Technology equipment (projector, smart board, software)	<ul style="list-style-type: none"> ■ Smart classroom equipment including data show. ■ Instructor station with Tablet PC-like technology. ■ Multiple electronic display surfaces (LCD projectors, etc.).





Items	Resources
	<ul style="list-style-type: none"> Reliable network connectivity. Laptop connection for instructor and student hook ups. Electrical Outlets.
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect
Effectiveness of Students assessment	Program Leader, External evaluator	Direct
Quality of learning resources	Instructor, Students	Indirect
The extent to which CLOs have been achieved	Quality Committee	Direct
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	SCIENTIFIC COMMITTEE OF THE DEPARTMENT OF MANAGEMENT AND MARKETING
REFERENCE NO.	2ND MEETING, ACADEMIC YEAR 2025, SUBJECT NO.3
DATE	12-09-2024

