



SESSION PLAN

***Lecture / Tutorial / Laboratory / Workshop**

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COURSE PARTICULARS


#: EA435	Title: Production Planning and Control
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SESSION PARTICULARS

#: 1	Title: Introduction to Production Planning and Control	Hrs: 2
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LEARNING OUTCOMES / ABILITIES GAINED*

#	Outcome Description
1	Introduction to Production Planning and Control
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Prepared by:
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 Date 1/9/2010

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COURSE PARTICULARS	
#: EA435	Title: Production Planning and Control

SESSION PARTICULARS		
#: 2	Title: Quality Control: Inspection	Hrs: 2

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	Introduction
2	Inspection
	- How much to inspect and how often
	- Where to inspect in the process
	- Centralized versus on-site inspection
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College/Institute/Centre: Management and Technology
Department of: Accounting and Finance

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COURSE PARTICULARS

#: EA435	Title: Production Planning and Control
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SESSION PARTICULARS

#: 3	Title: Quality Control: Statistical process control (Control charts for variables)	Hrs: 2
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LEARNING OUTCOMES / ABILITIES GAINED*

#	Outcome Description
1.	Statistical Process Control <ul style="list-style-type: none">- The control process- Variations and control- Control charts- Control charts for variables
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COURSE PARTICULARS	
#: EA435	Title: Production Planning and Control

SESSION PARTICULARS		
#: 4	Title: Quality Control: Statistical process control (Control charts for attributes)	Hrs: 2

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1.	- Control charts for attributes
2.	- Managerial considerations concerning control charts
3.	- Run tests
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COURSE PARTICULARS

#: EA435	Title: Production Planning and Control
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SESSION PARTICULARS

#: 5	Title: Quality Control: Process Capability	Hrs: 2
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LEARNING OUTCOMES / ABILITIES GAINED*

#	Outcome Description
1.	Process Capability - Capability Analysis - Improving process Capability - Taguchi cost function
2.	Acceptance Sampling Sampling Plans - Single-sampling plan - Double-sampling plan - Multiple-sampling plan - Choosing plan Operating characteristics curve Average quality on inspected lots
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COURSE PARTICULARS	
#: EA435	Title: Production Planning and Control

SESSION PARTICULARS		
#: 6	Title: Inventory Management: Economic Order Quantity Models (EOQ)	Hrs: 2

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1.	Introduction
2.	The nature and importance of inventories <ul style="list-style-type: none"> - Functions of inventories - Objectives of inventory control
3.	Requirements for effective inventory management <ul style="list-style-type: none"> - Inventory counting systems - Demand forecasts and lead-time information - Inventory costs - Classification system
4.	How much to order: Economic Order Quantity Models <ul style="list-style-type: none"> - Basic Economic Order Quantity (EOQ) Model
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COURSE PARTICULARS

#: EA435	Title: Production Planning and Control
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SESSION PARTICULARS

#: 7	Title: 7 th week exam	Hrs: 2
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LEARNING OUTCOMES / ABILITIES GAINED*

#	Outcome Description
1.	Multiple choice questions
2.	True and false questions
3.	Problems
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COURSE PARTICULARS

#: EA435

Title: Production Planning and Control

SESSION PARTICULARS

#: 8

Title: Inventory Management: Reorder Point (ROP) and
Quantity Discounts

Hrs: 2

LEARNING OUTCOMES / ABILITIES GAINED*

#	Outcome Description
1.	Economic Production Quantity (EPQ)
2.	Quantity Discounts
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COURSE PARTICULARS	
#: EA435	Title: Production Planning and Control

SESSION PARTICULARS		
#: 9	Title: Aggregate Planning: Techniques for Aggregate Planning	Hrs: 2

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1.	Introduction <ul style="list-style-type: none"> - Intermediate planning in perspective - The concept of aggregation - An overview of aggregate planning
2.	Excess Capacity <ul style="list-style-type: none"> - Demand and capacity options
3.	Basic strategies for meeting uneven demand <ul style="list-style-type: none"> - Choosing a strategy
4.	Techniques for Aggregate Planning <ul style="list-style-type: none"> - Trial-and-Error techniques using graphs and spreadsheets - Mathematical techniques
5.	Aggregate planning in services
6.	Disaggregating the Aggregate Plan
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COURSE PARTICULARS	
#: EA435	Title: Production Planning and Control

SESSION PARTICULARS		
#: 10	Title: Aggregate Planning: Master Scheduling	Hrs: 2

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1.	Master Scheduling - The Master Scheduler
2.	The Master Scheduling process - Inputs - Outputs - Time Fences
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COURSE PARTICULARS	
#: EA435	Title: Production Planning and Control

SESSION PARTICULARS		
#: 11	Title: Material Requirements Planning (MRP)	Hrs: 2

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1.	MRP Dependent versus independent demand
2.	An Overview of MRP
3.	MRP Inputs The Master Schedule The Bill of Materials The Inventory Records
4.	MRP processing Updating the system
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COURSE PARTICULARS	
#: EA435	Title: Production Planning and Control

SESSION PARTICULARS		
#: 12	Title: 12 th week exam , Material Requirements Planning (MRP) (continued)	Hrs: 2

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1.	Multiple choice, true/false, problems
2.	MRP Outputs
3.	Other considerations - Safety Stock - Lot sizing
4.	MRP in services
5.	Benefits and requirements of MRP
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COURSE PARTICULARS	
#: EA435	Title: Production Planning and Control

SESSION PARTICULARS		
#: 13.	Title: Scheduling: Loading	Hrs: 2

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1.	Scheduling Operations - Scheduling in high-volume systems - Scheduling in intermediate-volume systems
2.	Scheduling in low-volume systems - Loading
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COURSE PARTICULARS	
#: EA435	Title: Production Planning and Control

SESSION PARTICULARS		
#: 15	Title: Scheduling: Sequencing Jobs through Two Work Centers	Hrs: 2

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1.	Sequencing jobs when setup times are sequence-dependent
2.	Why scheduling can be difficult
3.	Minimizing scheduling difficulties
4.	The theory of constraints
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COURSE PARTICULARS

#: EA435	Title: Production Planning and Control
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SESSION PARTICULARS

#: 16	Title: Final exam	Hrs: 2
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LEARNING OUTCOMES / ABILITIES GAINED*

#	Outcome Description
1.	Multiple choice questions
2.	True and false questions
3.	Problems
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