

MINISTRY OF EDUCATION AND TRAINING
LAC HONG UNIVERSITY

COURSE SYLLABUS

<125092 – Manufacturing Resource Planning >

1. GENERAL INFORMATION

Name learn part (in Vietnamese):	Quản trị sản xuất
Name learn part (in English):	Manufacturing Resource Planning
Code learn part :	125092
Belongs to block ants awake :	Specialized
Department/ Ministry learn part	Faculty of Administration -
extra blame :	International Economics
Lecture pill extra blame :	Dr. Nguyen Van Dung
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Lecture pill virus family lecture	Ms. Duong Thi Phuong Hanh
teach :	Email: hanhntp@lhu.edu.vn
Number trust only :	3
Theory :	1
Real onion :	1
Post practice :	1
Calculate matter belong to learn	Mandatory for students in this
part	major.
Course module before :	Are not

2. COURSE DESCRIPTION

The course provides fundamental concepts regarding the organization of the production process within an enterprise and planning functions such as: Demand Forecasting, Capacity Planning, Material Requirements Planning, etc. The course also aims to equip students with operational management skills, including: Production Scheduling, Facility Layout, and the inspection and evaluation of an enterprise's production efficiency.

3. Course Learning Outcomes

Table 1: Standards head go out learn parts (CLOs)

Course Learning Outcomes (CLOs)	Content learning outcomes for the course	Bloom domain/Bloom level	PLOs program output standards
CLO1	Identify the influencing factors within production management to resolve emergent practical challenges.	Knowledge (4)	PLO2/PI2.1
CLO2	Implement production management activities according to established procedures and schedules.	Knowledge (3)	PLO3/PI3.1
CLO3	Discuss the optimal solution based on the production plan.	Skill (5)	PLO5/PI5.2
CLO4	Demonstrate ethical conduct and social responsibility in production decisions.	Attitude (3)	PLO8/PI8.1

COURSE CONTENT AND LESSON PLAN

Table 2 : Course Content part , next plan lecture teach

No.	Lesson/ Chapter	Title of the Lesson/Chapter	Learning Outcomes (LLO)		Work teaching and learning	Teaching methods	Evaluatio n method	References (*)
1	Chapter 1	Overview of Production Management Concepts and Significance of Production and Operations Management Steps in the Development of Production Management	LLO1.1	To understand the concepts of production and production management, their origin and development, and the necessity of production management for businesses.	Classroom Activities: The instructor introduces the course overview, regulations, and learning roadmap. Students familiarize themselves with new knowledge by listening, observing, and asking questions. Self-Study Activities: Students read ahead and prepare for class.	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[1], [2]

		Research directions in production management The role of the manager in production management			Classroom Activities: Lecturer introduces the necessity of production management activities. Students familiarize themselves with new knowledge by listening, observing, and asking questions. Self-Study Activities: Students read the lesson beforehand and prepare for class.	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[1], [2]
2	Chapter 2	FORECAST Concept and Significance of Demand Forecasting	LLO2.1	Identify suitable forecasting models for production management, logistics strategy, and	Classroom activities: The instructor answers students' questions and divides them into groups to discuss the elements of the model.	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[1], [2]

				forecasting planning in practice for a number of specific businesses.	Self-study activities: Students read the lesson beforehand and prepare for class.			
		Methods for forecasting demand Qualitative methods			Classroom Activities: The instructor answers students' questions and divides them into groups for discussion on production planning and management. Students are asked to provide specific examples of production-related issues in businesses. Self-Study Activities: Students read the lesson beforehand and prepare for class.	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[1], [2]

3	Chapter 2	Quantitative methods			Classroom activities: The instructor answers students' questions and divides them into groups to work on a production plan for a business. Self-study activities: Students read the lesson beforehand and prepare for class.	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[1], [2]
		Quantitative methods (cont)			Classroom Activities: Groups will complete and present detailed quantitative exercises at the enterprise level. Self-Study Activities: Students will read the lesson beforehand and prepare for class.	Lecture Ask questions Solve problems Practice / Exercise	Short test Short answer test Essay test	[1], [2]

4	Chapter 2	Quantitative methods (cont)			Classroom Activities: Groups will complete and present detailed quantitative exercises at the enterprise level. Self-Study Activities: Students will read the lesson beforehand and prepare for class.	Lecture Ask questions Solve problems Practice / Exercise	Short test Short answer test Essay test	[1], [2]
		Monitoring and controlling forecasts.			Classroom activities: The instructor answers students' questions and divides them into groups for discussion on forecast control for businesses Self-study activities: Students read the lesson beforehand and prepare for class.	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[1], [2]

5	Chapter 3	AGGREGATE PLANNING (Production Planning) Concept – Aggregate Planning Strategies	LLO3.1	Implement the factory production plan to efficiently schedule work, gather appropriate information as required, and operate the push-pull system for goods distribution.	Classroom activities: The instructor answers students' questions and provides specific production exercises to help students adjust production schedules to address the problems they are facing.	Lecture Ask questions Solve problems Practice / Exercise	Short test Short answer test Essay test	[1], [2]
		Integrated planning method Method using the transportation problem			Classroom activities: The instructor answers students' questions and provides specific production exercises to help students adjust	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[1], [2]

					production schedules to address the problems they are facing. Self-study activities: Students read the lesson beforehand and prepare for class.			
6	Chapter 3	A method for comparing feasible options.	LLO3.2	Applying the comparative method to production options in practice.	Classroom activities: The instructor answers students' questions and provides specific production exercises to help students adjust production schedules to address the problems they are facing. Self-study activities: Students read the	Lecture Ask questions Solve problems Practice / Exercise	Short test Short answer test Essay test	[1], [2]

					lesson beforehand and prepare for class.			
		A method for comparing feasible options. (cont)			Classroom activities: The instructor answers students' questions and divides them into groups for discussion on production planning. Self-study activities: Students read the lesson beforehand and prepare for class.	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[1], [2]
7	Chapter 4	Inventory Management Issues related to inventory and inventory management	LLO4.1	Ethical conduct related to inventory management.	Classroom activities: The teacher answers students' questions. Then, the teacher groups students into teams of 2 to 4 and asks them to discuss	Lecture Ask questions Solve problems Practice / Exercise	Short test Short answer test Essay test	[1], [2]

				Comply with legal regulations in inventory management to ensure there is no speculation or market manipulation.	the advantages and disadvantages of inventory. Self-study activities: Students read the lesson beforehand and prepare for class.			
		Inventory management models	LLO4.2		Classroom activities: The instructor presents an inventory management model with examples, and students work on exercises using that model. Self-study activities: Students read the lesson beforehand and prepare for class. post	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[1], [2]

					before When arrive class			
8	Chapter 4	Report group			Classroom activity: Groups will conduct and present detailed information on controlling supply contracts and risk diversification. Self-study activity: Students will read ahead and prepare for class.	Lecture Ask questions Solve problems Practice / Exercise	Short test Short answer test Essay test	
		Inventory management models			Classroom activities: The instructor presents an inventory management model with examples, and students work on	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[1], [2]

					exercises using that model. Self-study activities: Students read the lesson beforehand and prepare for class.			
9	Chapter 4	Inventory management models (cont)			Classroom activities: The instructor presents an inventory management model with examples, and students work on exercises using that model. Self-study activities: Students read the lesson beforehand and prepare for class.	Lecture Ask questions Solve problems Practice / Exercise	Short test Short answer test Essay test	[1], [2]

		Supply contracts and risk diversification			Classroom Activities: The instructor answers students' questions. Then, the instructor groups students into teams of 2 to 4 and asks them to present methods for risk diversification in a specific field. Self-Study Activities: Students read the lesson beforehand and prepare for class.	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[1], [2]
10	Chapter 5	Production scheduling Organizing tasks on a machine	LLO5.1	Discuss how to organize tasks to complete production work in the	Classroom activity: The teacher presents a real-life situation and asks students to respond based on that situation.	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[2]

				shortest possible time.	Self-study activity: Students read the lesson beforehand and prepare for class.			
		Report group			Classroom activity: Groups will conduct and present detailed information on controlling supply contracts and risk diversification. Self-study activity: Students will read ahead and prepare for class.	Lecture Ask questions Solve problems Practice / Exercise	Short test Short answer test Essay test	
11	Chapter 5	Arrange the tasks in order on the two machines.			Classroom activity: The teacher presents a real-life situation and asks students to	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[1], [2]

					respond based on that situation. Self-study activity: Students read the lesson beforehand and prepare for class.			
		Arrange the tasks in order on the 3 machines.			Classroom activity: The teacher presents a real-life situation and asks students to respond based on that situation. Self-study activity: Students read the lesson beforehand and prepare for class.	Lecture Ask questions Solve problems Practice / Exercise	Short test Short answer test Essay test	[1], [2]
12	Chapter 5	Report group			Classroom activity: Groups will conduct and present detailed information on	Lecture Ask questions	Short test Short answer test	

				controlling supply contracts and risk diversification. Self-study activity: Students will read ahead and prepare for class.	Solve problems	Essay test	
		Ensure that integration yields effective results within the organization		Classroom activity: The teacher presents a real-life situation and asks students to respond based on that situation. Self-study activity: Students read the lesson beforehand and prepare for class.	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[2]
		Report group		Classroom activity: Groups will conduct and present detailed	Lecture Ask questions	Short test	

					information on controlling supply contracts and risk diversification. Self-study activity: Students will read ahead and prepare for class.	Solve problems	Short answer test Essay test	
13	Chapter 6	Material Requirements Planning Concept and Role of Material Requirements Planning	LLO6.1	Evaluate existing material requirements planning models and select a suitable model for managing materials and goods.	Classroom Activities: The instructor answers students' questions. Then, the instructor groups students into teams of 2 to 4 and asks them to present methods for risk diversification in a specific field. Self-Study Activities: Students read the	Lecture Ask questions Solve problems Practice / Exercise	Short test Short answer test Essay test	[1], [2]

					lesson beforehand and prepare for class.			
		Materials Demand Planning Models Slot Supply Model			Classroom activity: Groups will conduct and present detailed information on controlling supply contracts and risk diversification. Self-study activity: Students will read ahead and prepare for class.	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[1], [2]
14	Chapter 6	Report group			Classroom activity: Groups will conduct and present detailed information on controlling supply contracts and risk diversification.	Lecture Ask questions Solve problems	Short test Short answer test Essay test	

					Self-study activity: Students will read ahead and prepare for class.			
		Economic Order Quantity (EOQ) Model			Classroom activity: Groups will conduct and present detailed information on controlling supply contracts and risk diversification. Self-study activity: Students will read ahead and prepare for class.	Lecture Ask questions Solve problems Practice / Exercise	Short test Short answer test Essay test	[1], [2]
15	Chapter 6	Time balance model			Classroom activity: Groups will conduct and present detailed information on controlling supply	Lecture Ask questions Solve problems	Short test Short answer test Essay test	[1], [2]

					contracts and risk diversification. Self-study activity: Students will read ahead and prepare for class.			
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4. MAPPING COURSE LEARNING OUTCOMES AND LESSONS

Table 3: Mapping of learning outcomes for modules and lessons

Post study / Chapter	Lesson learning outcomes	Course learning outcomes				Reviewers
		CLO 1	CLO 2	CLO 3	CLO 4	
Chapter 1	LLO1.1	X				A1
Chapter 2	LLO2.1	X				A1, A2, A3
Chapter 3	LLO3.1		X			A1, A2, A3
Chapter 3	LLO3.2		X			A1, A2, A3
Chapter 4	LLO4.1				X	A1, A2
	LLO4.2				X	A1, A2
Chapter 5	LLO5.1			X		A3
Chapter 6	LLO6.1			X		A2, A3

5. Course Assessment

Table 4: Course Evaluation

Reviewers	Assessment method	COs	Percentage (%)
A1. Process	Lecture Ask questions Solve problems	CLO1, CLO2, CLO4	30%
A2. Midterm	Short test Short answer test	CLO1, CLO4	30%
A3. End of term	Essay test	CLO1, CLO2, CLO3,	40%

6. COURSE REQUIREMENTS AND EXPECTATIONS

- Class attendance: as per school regulations

- Students read and study the course materials provided by the instructor before each class.
- Attending classes regularly and on time, completing homework assignments, and answering short questions and quick exercises in class will earn students bonus points that contribute to their 30% overall course grade.
- Teamwork, in-class assignments, and group practice contribute to 30% of the grade.

7. STUDY MATERIALS AND REFERENCES

7.1. Textbook

[1] Pham Huy Tuan (2022) Production and Quality Management Textbook, Ho Chi Minh City National University Publishing

7.2. References

[1] Nguyen Thanh Hieu, Truong Duc Luc (2023), Operations Management Textbook, National Economics University Publishing

[2] Dang Minh Trang, Luu Dan Tho (2021), Modern Operations Management, Ho Chi Minh City Finance Publishing

Dong Nai, date month 2025

Head of Department/Course

Compiled by lecturers

Nguyen Van Dung

