



SEMESTER LEARNING PLAN

Courses	Production and Operations Management in Agribusiness
Semester	V(Five)
Course Code	MKW60729
College Courses	Agribusiness Management
MK Preconditions	-
Developer Lecturer	Dr. Dwi Susilowati, S.P., M.P.
Mk Master Lecturer	Dr. Dwi Susilowati, S.P., M.P.
Authentication Date	August 1, 2019
Courses	Agribusiness
Faculty	Agriculture



ISLAMIC UNIVERSITY OF MALANG
 FACULTY OF AGRICULTURE
 AGRIBUSINESS STUDY PROGRAM

SEMESTER LEARNING PLAN (RPS)

Courses/Semesters	Master Lecturer	Course Code	Credit Weight: 3
Production and Operations Management in Agribusiness	Dr. Dwi Susilowati, S.P., M.P.	MKW60729	Theory: 40 %Practice: 60%
Authorization	RPS Developer Lecturer	Head of Study Program	Vice Dean I
	Dr. Dwi Susilowati, S.P., M.P.	Dr. Dwi Susilowati, S.P., M.P.	Dr. Ir. Anis Sholihah, M.P.
Learning Achievements	Graduate Learning Achievement (CPL) Study Program Charged in Courses		
	ILO 9: Able to work efficiently, independently and cooperate in teams using various methods to communicate effectively in the scientific community and society.		
	ILO 10:B erperilaku in accordance with the code of ethics and responsibilities of the Agribusiness <i>Entrepreneur</i> profession includes management and marketing, project management, acquisition, personnel management, control.		
	ILO 1: Able to respond to problems regarding entrepteunership, agribusiness, and green <i>food</i> . Answer.		
	ILO 6: Able to evaluateprojects that are in accordance with the techniques, methods, limitations, interpretthe data and conclude it		
	ILO 2: Able to break the rules / principles of agribusiness, social sciences, economics, and agricultural engineering as the foundation of innovative Agribusiness disciplines		
	Learning Achievement Courses (CP-MK)		

	CPMK 1 Mis able to conceptualize production and operations management in agribusiness and production process strategy and operations
	CPMK 2 Mis able to make demand forecasting and product design
	CPMK 3 Able to control JIT manufacturing, labor management, measurement and performance improvement, Material Requirement Planning (MRP)
	CPMK 4 Mampu menentukan location and layout of factory location, layout of factory facilities
	CPMK 5 Mis able to conceptualize production capacity planning, production resource needs and inventory control, quality supervision and Pasok Chain Management(SCM)
Course Output	Results evaluation of competency assessment of attitudes, knowledge, skills mastered by students with a minimum target of more than 60% of students get a good grade (B)
Expected Outcome	Students have competence in production management and operations in agribusiness so that it will facilitate their role later if they become an entrepreneur in agribusiness.
Brief Description of Course	Operations Production Management is one of the courses in the Agribusiness Study Program that must be taken by undergraduate students of semester V of agribusiness study program. This course is a study of the concepts of understanding the functions of production and operations management, operating strategies, demand forecasting, product design, determination of location and layout of factory locations, layout of factory facilities, planning of production capacity and production resource needs, inventory control, quality supervision, JIT manufacturing, labor management, measurement and performance improvement.
Learning Materials:	<ol style="list-style-type: none"> 1. Understanding and Concept of production and operations management functions 2. Production process strategy, operation 3. Demand forecasting 4. Product design 5. Production capacity planning 6. Inventory control 7. JIT Manufacturing 8. Quality supervision 9. Determination of production location 10. Layout of production facilities 11. Planning for production resource needs 12. Workforce management, Measurement and performance improvement 13. Pasok Chain Management(Supply Chain Management/SCM) 14. Material Requirement Planning (MRP)

Book

Main:

1. Elwood S. Buffa and Rakesh K. Sarin. *Modern Production/Operation Management*. John Wiley & Sons, Inc., 1998.
2. Heizer, Jay and Barry Render. *Operations Management: Sustainability and supply chain management*. Eleventh Edition. Pearson Education Ltd., 2014.
3. Hill, Alex and Terry Hill. *Operations Management*. 3-rd Edition. Palgrave Macmillan, 2012.
4. T Hani Handoko. *The Basics of Production and Operations Management*. BPFE-Yogyakarta, 2000.
5. <https://www.youtube.com/watch?v=YVvPgYO6q8Y>
6. <https://www.youtube.com/watch?v=1eTnrexuho4>
7. <https://www.youtube.com/watch?v=YIQITD1T0SY>

Supporter:

8. Slack, Nigel., Alistair Brandon-Jones, Robert Johnston. *Operations Management*. Pearson Education Ltd, 2016.
9. Steven, William. *Operations Management*. McGraw-Hill Publishing, 2011.

Week	Final Ability of Each Learning Stage (Sub CPMK)	Assessment		Form of Learning; Learning Methods and Media; Student Learning Experience	Estimated Time	Details of Learning Materials; Book	Assessment Weight (%)
		Assessment Indicator	Assessment Criteria and Techniques				
1	Sub CPMK 1: Students are able to apply the concept of functions and strategies of operations production management in agribusiness	<ol style="list-style-type: none"> Students are able to understand the concept of operational production management functions in agribusiness Students are able to master the scope in production management and operations in agribusiness 	<p>Assessment Criteria:</p> <ol style="list-style-type: none"> Ketepatan in studying and explaining the concept of operating production management functions in agribusiness. Accuracy in reviewing and explaining the scope in production management and operations in agribusiness <p>Assessment Techniques:</p> <ol style="list-style-type: none"> Presentation of the concept of operating production management functions in agribusiness. Performance Assessment (Observation of performances during discussion) 	<p>Form of learning: Synchronous Lectures</p> <p>Learning Methods: Q&A and <i>Small Group Discussion</i></p> <p>Media: Presentation media</p> <p>Student Learning Experience</p> <ol style="list-style-type: none"> Read carefully the introduction to the lecture and understand in general the concept of the function of operational production management in agribusiness and its scope Listen to the concept of the concept of operating production management functions in agribusiness and its scope Brainstorming about the concept of operating production management functions in agribusiness and its scope Training about 	<p>Learning Process (PB): 100 minutes</p> <p>Independent Activities (KM): 2x60 minutes</p> <p>Structured Assignment (PT): 2x 60 minutes</p>	<p>Material:</p> <ol style="list-style-type: none"> Understanding and concept of production and operations management in agribusiness Scope of production and operations management in agribusiness <p>Libraries: 1,3 and 4</p>	5

Week	Final Ability of Each Learning Stage (Sub CPMK)	Assessment		Form of Learning; Learning Methods and Media; Student Learning Experience	Estimated Time	Details of Learning Materials; Book	Assessment Weight (%)
		Assessment Indicator	Assessment Criteria and Techniques				
2	Sub CPMK 1: Students are able to apply the concept of functions and strategies of operations production management in agribusiness	<p>1. Students are able to distinguish the production management of goods and services operations in agribusiness companies.</p> <p>2. Students are able to implement operations production management strategies in agribusiness</p>	<p>Assessment Criteria:</p> <p>1. Accuracy in distinguishing the production management of goods and services operations in agribusiness companies</p> <p>2. Accuracy in reviewing the application of operations production management strategies in agribusiness</p> <p>Assessment Techniques:</p> <p>1. Assessment of Performance (Observation during discussion)</p> <p>2. Assignment (Creating an MPO strategy for agribusiness companies)</p>	<p>Form of learning: Synchronous Lectures</p> <p>Learning Methods: Q&A and <i>Small Group Discussion</i></p> <p>Media: Presentation Media</p> <p>Student Learning Experience</p> <p>1. Read carefully the introduction to lectures and understand the differences in the management of the production of goods and services operations in agribusiness companies.</p> <p>2. Presentation and discussion of MPO strategy on agribusiness companies</p>	<p>Learning Process (PB): 100 minutes</p> <p>Independent Activities (KM): 2x60 minutes</p> <p>Structured Assignment (PT): 2x 60 minutes</p>	<p>Material:</p> <p>1. Concept of the function of production management of goods and services operations in agribusiness companies</p> <p>2. Production and operations management strategies in agribusiness companies</p> <p>Library: 1,3,4</p>	10

Week	Final Ability of Each Learning Stage (Sub CPMK)	Assessment		Form of Learning; Learning Methods and Media; Student Learning Experience	Estimated Time	Details of Learning Materials; Book	Assessment Weight (%)
		Assessment Indicator	Assessment Criteria and Techniques				
3	SUB CPMK 2: Students are able to forecast product demand and design products in agribusiness companies	<ol style="list-style-type: none"> Students are able to forecast the demand for products and services in agribusiness companies Students are able to choose models of forecasting goods and services in agribusiness companies 	<p>Assessment Criteria:</p> <ol style="list-style-type: none"> Accuracy in forecasting the demand for products and services in agribusiness companies Accuracy in choosing models of forecasting the demand for goods and services in agribusiness companies <p>Assessment Techniques:</p> <ol style="list-style-type: none"> Presentation on forecasting the demand for products and services in agribusiness companies Performance Assessment (Observation of 	<p>Form of Learning: Synchronous Lectures and Asinkron Mandiri.</p> <p>Method: Discussion and task</p> <p>Media:Presentation Media</p> <p>Learning Experience:</p> <ol style="list-style-type: none"> Read carefully the lecture material through presentation media, referencebooks. Presentation of the results of forecasting the demand for products and services in agribusiness companies 	<p>Learning Process (PB): 100 minutes</p> <p>Independent Activities (KM): 2x60 minutes</p> <p>Structured Assignment (PT): 2x 60 minutes</p>	<p>Material</p> <ol style="list-style-type: none"> Understanding and importance of the role of demand forecasting. Forecasting conditions and factors that affect forecasting results. The type of forecasting and usefulness of forecasting results. Measures of forecasting accuracy and quantitative forecasting methods <p>Libraries: 1, 3, 4</p>	7

			performances during discussions)				
4	SUB CPMK 2: Students are able to forecast demand and design products in agribusiness companies	<ol style="list-style-type: none"> Students are able to understand and be able to design products and operations in agribusiness companies. Students are able to understand and create product development strategies and operations in agribusiness companies. 	<p>Assessment Criteria:</p> <ol style="list-style-type: none"> Ketepatan in reviewing and designing products and processes in agribusiness companies. Accuracy in reviewing and making product development strategies and operations in agribusiness companies <p>Assessment Techniques:</p> <ol style="list-style-type: none"> Presentation of designing products and processes at agribusiness companies Performance Assessment (Observation of performances during discussions) 	<p>Form of Learning: Synchronous Lectures and Asinkron Mandiri.</p> <p>Method: Discussion and pугasan</p> <p>Media: Presentation Media</p> <p>Learning Experience:</p> <ol style="list-style-type: none"> Read carefully the lecture material through presentation media, reference books. Presentation of product design development results 	<p>Learning Process (PB): 100 minutes</p> <p>Independent Activities (KM): 2x60 minutes</p> <p>Structured Assignment (PT): 2x 60 minutes</p>	<p>Material:</p> <ol style="list-style-type: none"> Understanding and importance of the role of product design and process design. Preparation of goods/services production planning. Research and Development (R&D) of goods/services. Product development with new technology. New product introduction strategy <p>Library: 4,8,9</p>	7

Week	Final Ability of Each Learning Stage (Sub CPMK)	Assessment		Form of Learning; Learning Methods and Media; Student Learning Experience	Estimated Time	Details of Learning Materials; Book	Assessment Weight (%)
		Assessment Indicator	Assessment Criteria and Techniques				
5	SUBCPMK 3: Students are able to plan production capacity and control product supplies	<p>1. Students are able to understand and be able to explain the type of production capacity</p> <p>2. Students are able to understand and are able to plan for production capacity /operations in agribusiness companies.</p>	<p>Assessment Criteria:</p> <p>1. Ketepatan in studying and explaining the type of production capacity</p> <p>2. Accuracy in reviewing and planning production capacity /operation in agribusiness companies</p> <p>Assessment Techniques:</p> <p>1. Presentation of production/operating capacity planning to agribusiness companies</p> <p>2. Performance Assessment (Observation of performances during discussions)</p>	<p>Form of Learning: Synchronous Lectures and Asinkron Mandiri.</p> <p>Method: Discussion and task</p> <p>Media: Presentation Media</p> <p>Learning Experience:</p> <p>1. Read carefully the lecture material through presentation media, reference books.</p> <p>2. Presentation of the results of determining production capacity</p>	<p>Learning Process (PB): 100 minutes</p> <p>Independent Activities (KM): 2x60 minutes</p> <p>Structured Assignment (PT): 2x 60 minutes</p>	<p>Material:</p> <p>1. Definition of production/operating capacity planning.</p> <p>2. Type of production capacity.</p> <p>3. Type of production/operating capacity planning.</p> <p>4. Economies of scale and diseconomies of scale</p> <p>5. Determination of production capacity by BEP analysis.</p> <p>6. Determination of production capacity with Learning Curve</p> <p>Libraries: 4, 8.9</p>	10

6	SUBCPMK 3: Students are able to plan production capacity and control product supplies	<ol style="list-style-type: none"> Students are able to understand and be able to explain their inventory and function in production management in agribusiness companies. Students are able to understand and apply the method of assessment of product inventory to agribusiness companies 	<p>Assessment Criteria:</p> <ol style="list-style-type: none"> Ketepatan in reviewing and explaining its inventory and functions in production management in agribusiness companies Accuracy in reviewing and applying methods of assessment of product supplies to agribusiness companies <p>Assessment Techniques:</p> <ol style="list-style-type: none"> Presentation of product inventory assessment results to agribusiness companies Performance Assessment (Observation of performances during discussions) 	<p>Form of Learning: Synchronous Lectures and Asinkron Mandiri.</p> <p>Method: Discussion and task</p> <p>Media: Presentation Media</p> <p>Learning Experience:</p> <ol style="list-style-type: none"> Read carefully the lecture material through presentation media, reference books. Presentation of product inventory assessment results to agribusiness companies 	<p>Learning Process (PB): 100 minutes</p> <p>Independent Activities (KM): 2x60 minutes</p> <p>Structured Assignment (PT): 2x 60 minutes</p>	<p>Material:</p> <ol style="list-style-type: none"> Understanding inventory and its function in production management. Classification of ABC in the preparation of raw material/equipment supplies. Inventory model Lead-time, buffer stock, and re-order points. Method of assessment of supplies. <p>Libraries : 1, 4, 8</p>	7
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Week	Final Ability of Each Learning Stage (Sub CPMK)	Assessment		Form of Learning; Learning Methods and Media; Student Learning Experience	Estimated Time	Details of Learning Materials; Book	Assessment Weight (%)
		Assessment Indicator	Assessment Criteria and Techniques				
7	SUBCPMK 4: Students are able to master JIT Manufacturing and conduct product quality supervision	<ol style="list-style-type: none"> Students are able to understand and explain the Concept of Just In Time(JIT) Students are able to understand and design <i>Just In Time</i>(JIT) in the goods production sector Students are able to understand and design <i>Just In Time</i>(JIT) in the service sector 	<p>Assessment Criteria:</p> <ol style="list-style-type: none"> Accuracy in explaining the Concept of Just In Time(JIT) Accuracy in designing <i>Just In Time</i>(JIT) in the goods production sector Accuracy in designing <i>Just In Time</i>(JIT) in the service sector <p>Assessment Techniques:</p> <ol style="list-style-type: none"> Performance Assessment (Evaluating the results of the Just In Time(JIT) draft on the production of goods and service sectors) Attitude Assessment (When presenting the JIT design) 	<p>Form of Learning: Synchronous And Independent Asynchronous Lectures,</p> <p>Methods: Problem based learning and assignment</p> <p>Media:Print Media (Articles, References) videos and Presentation Media</p> <p>Learning Experience:</p> <ol style="list-style-type: none"> Observe MPO examples from videos Read carefully the lecture material through presentation media, reference books. 	<p>Learning Process (PB): 100 minutes</p> <p>Independent Activities (KM): 2x60 minutes</p> <p>Structured Assignment (PT): 2x 60 minutes</p>	<p>Material:</p> <ol style="list-style-type: none"> <i>Just In Time</i>(JIT) <i>Just In Time</i>(JIT) in the goods production sector <i>Just In Time</i>(JIT) in the service sector <p>Library: 3,4,5</p>	7

Midle Exam

Week	Final Ability of Each Learning Stage (Sub CPMK)	Assessment		Form of Learning; Learning Methods and Media; Student Learning Experience	Estimated Time	Details of Learning Materials; Book	Assessment Weight (%)
		Assessment Indicator	Assessment Criteria and Techniques				
8	SUBCPMK 4: Students are able to master JIT Manufacturing and conduct product quality supervision	<ol style="list-style-type: none"> Students can understand and perform quality in the product-si/operation process. Students can explain and understand the development of quality control management and modern quality control. Students can understand the role of TQC and Six Sigma and improve the quality of goods / services. Students can implement quality control by means of inspection, SQC, process control, and process capabilities. 	<p>Assessment Criteria:</p> <ol style="list-style-type: none"> Accuracy in explaining and performing quality in the product-si/operation process. Accuracy in reviewing the development of quality control management and modern quality control. Accuracy in improving quality by means of control in the production process <p>Assessment Techniques:</p> <ol style="list-style-type: none"> Product Assessment (Small Group Discussion Results) Attitude Assessment (When group work is presenting and discussing) 	<p>Form of Learning: Online Lectures Asinkron Mandiri</p> <p>Method: Small Group Discussion and assignment</p> <p>Media: Video learning and Presentation Media</p> <p>Learning Experience:</p> <ol style="list-style-type: none"> Observe and understand in general the quality of the quality in the product-si/operation process. Observing and understanding the development of quality control management and modern quality control Forming a group Choose a topic of discussion Presentation of group work 	<p>Learning Process (PB): 100 minutes</p> <p>Independent Activities (KM): 2x60 minutes</p> <p>Structured Assignment (PT): 2x 60 minutes</p>	<p>Material:</p> <ol style="list-style-type: none"> Quality understanding and quality control strategies. Development of quality control management and modern quality control. TQC and Six Sigma Quality control methods: Inspection, SQC, process control, and process capability. <p>Library: 3,4,5</p>	7

Week	Final Ability of Each Learning Stage (Sub CPMK)	Valuation		Form of Learning; Learning Methods and Media; Student Learning Experience	Estimated Time	Details of Learning Materials; Book	Assessment Weight (%)
		Assessment Indicator	Assessment Criteria and Techniques				
9	SUCPMK 5: Students are able to determine the production location and arrange the layout of production facilities	<ol style="list-style-type: none"> Students are able to determine the location of the factory / place of business in accordance with the characteristics of the type of product / service produced based on the method of determining the location of the factory. Students are able to select the location of the factory or place of business 	<p>Assessment Criteria:</p> <ol style="list-style-type: none"> Accuracy in determining the location of the factory / place of business in accordance with the characteristics of the type of product / service produced based on the method of determining the location of the factory Accuracy in choosing the location of the factory or place of business <p>Assessment Techniques:</p> <ol style="list-style-type: none"> Job Performance Assessment (Evaluate the exposure of group presentation material) Product assessment (Evaluating problem-solving results) Attitude Assessment (During presentation and discussion) 	<p>Form of Learning: Synchro College and Aslnkron Collaborative</p> <p>Methods: Problem based learning and assignment</p> <p>Media: Print Media (Articles, References) and Presentation Media</p> <p>Student learning experience:</p> <ol style="list-style-type: none"> Learn about the location of the factory / place of business in accordance with the characteristics of the type of product / service produced based on the method of determining the location of the factory Look at the location selection process for the production process 	<p>Learning Process (PB): 100 minutes</p> <p>Independent Activities (KM): 2x60 minutes</p> <p>Structured Assignment (PT): 2x 60 minutes</p>	<p>Material:</p> <ol style="list-style-type: none"> The importance of choosing the location of the factory or place of business. Factors considered in the selection of factory locations and plant sites. Method of determining the location of the factory <p>Library: 1,2,3,4</p>	7
10	SUCPMK 5: Students are able to		<p>Assessment Criteria:</p> <ol style="list-style-type: none"> Accuracy in designing 	<p>Form of Learning: Synchro College and Aslnkron</p>	<p>Learning Process (PB):</p>	<p>Material:</p>	5

	determine the production location and arrange the layout of production facilities	<ol style="list-style-type: none"> Students can design lay-out placements of factory buildings, buildings instead of factories and facilities. Students are able to determine the design of lay-out equipment / machinery in the factory with certain methods. 	<p>lay-out placement of factory buildings, buildings not factories and facilities</p> <ol style="list-style-type: none"> Accuracy in determining the design of lay-out equipment / machinery in the factory with certain methods <p>Assessment Techniques:</p> <ol style="list-style-type: none"> Job Performance Assessment (Evaluate the exposure of group presentation material) Product assessment (Evaluating problem-solving results) Attitude Assessment (During presentation and discussion) 	<p>Collaborative</p> <p>Methods: Problem based learning and assignment</p> <p>Media:Print Media (Articles, References) and Presentation Media</p> <p>Student learning experience:</p> <ol style="list-style-type: none"> Learn about designing lay-out placements of factory buildings, buildings not factories and their facilities Observing the process of lay-out design of equipment / machinery in the factory with certain methods 	<p>100 minutes</p> <p>Independent Activities (KM): 2x60 minutes</p> <p>Structured Assignment (PT): 2x 60 minutes</p>	<ol style="list-style-type: none"> Design lay-out plant location (sites plant). Design lay-out equipment / machinery in the factory. Archetypes and methods of determining lay-out equipment / machinery in the factory. <p>Library: 1,2,3,4</p>	
11	SUBCPMK 6: Students are able to plan resource needs for production and conduct workforce management to improve performance	<ol style="list-style-type: none"> Students are able to devise Human Resource Strategies for Competitive Advantage Students are able to plan labor. Students are able to design jobs. 	<p>Assessment Criteria:</p> <ol style="list-style-type: none"> Accuracy in reviewing the preparation of Human Resource Strategies for Competitive Advantage Accuracy in Planning labor Accuracy in designing work 	<p>Form of Learning: Synchronic Lectures and Collaborative Inkron</p> <p>Methods: Problem based learning and assignment</p> <p>Media:Print Media (Articles, References) and Presentation Media</p> <p>Student learning experience:</p>	<p>Learning Process (PB): 100 minutes</p> <p>Independent Activities (KM): 2x60 minutes</p> <p>Structured Assignment (PT): 2x 60 minutes</p>	<p>Material:</p> <ol style="list-style-type: none"> Human Resource Strategies for Competitive Advantage Labor Planning Job Design Worker Standards <p>Library: 3,4,5</p>	7

			<p>Assessment Techniques: Attitude Assessment (When group work does HR planning)</p>	<ol style="list-style-type: none">1. Listen and understand well the lecturer's explanation regarding Human Resource Strategy for Competitive Advantage2. Looking at the explanation of the workforce planning and the design of the work			
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Week	Final Ability of Each Learning Stage (Sub CPMK)	Valuation		Form of Learning; Learning Methods and Media; Student Learning Experience	Estimated Time	Details of Learning Materials; Book	Assessment Weight (%)
		Assessment Indicator	Assessment Criteria and Techniques				
12	SUBCPMK 6: Students are able to plan resource needs for production and conduct workforce management to improve performance	<ol style="list-style-type: none"> Students can understand the importance of workforce management and how to manage the workforce. Students can understand the principles of workforce management and its management approach in corporate organs. Students can identify workforce management and understand labor philosophy. 	<p>Assessment Criteria:</p> <ol style="list-style-type: none"> Accuracy in studying the importance of workforce management and how to manage the workforce Accuracy in the management of labor and its management approach in corporate organs Accuracy in identifying workforce management and understanding labor philosophy <p>Assessment Techniques: Attitude Assessment (Whengroup work does HR planning)</p>	<p>Form of Learning: Synchronic Lectures and Collaborative Inkron</p> <p>Methods: Problem based learning and assignment</p> <p>Media: Print Media (Articles, References) and Presentation Media</p> <p>Student learning experience:</p> <ol style="list-style-type: none"> Listen and understand well the explanation of lecturers related to workforce management and management approaches in corporate organizations Look at the explanation of the philosophy of labor 	<p>Learning Process (PB): 100 minutes</p> <p>Independent Activities (KM): 2x60 minutes</p> <p>Structured Assignment (PT): 2x 60 minutes</p>	<ol style="list-style-type: none"> Understanding the management of labor and its implementation. Principles of workforce management. Ker-ja and organizational energy management approach Workforce management Towards a labor philosophy 	7

Week	Final Ability of Each Learning Stage (Sub CPMK)	Assessment		Form of Learning; Learning Methods and Media; Student Learning Experience	Estimated Time	Details of Learning Materials; Book	Assessment Weight (%)
		Assessment Indicator	Assessment Criteria and Techniques				
13	SUBCPMK 7: Students are able to perform Pasok Chain Management(Supply Chain Management / SCM) and master Material Requirement Planning (MRP)	<ol style="list-style-type: none"> 1. Students can understand the importance of the role of SCM in production/operations management. 2. Students can understand supply chain strategies and design supply chains. 3. Students can design logistics management and can understand e-procurement. 4. Students can identify effective and efficient supply chains, and can rate supply chain performance. 	<p>Assessment criteria:</p> <ol style="list-style-type: none"> 1. Accuracy in understanding the strategy of supply chain and designing supply chain 2. Accuracy in designing logistics management and can understand e-procurement. 3. Accuracy in identifying the supply chain effectively and efficiently, and can kurd the performance of the supply chain <p>Assessment Techniques: Project Assessment (Grouply evaluating the creation of supply chain</p>	<p>Form of Learning: Synchronous And Collaborative Asynchronous Lectures</p> <p>Methods: Problem based learning and assignment</p> <p>Media:Print Media (Articles, References),video and Presentation Media</p> <p>Student learning experience:</p> <ol style="list-style-type: none"> 1. Listen to explanations of the process of preparing supply chain strategies and designing supply chains 2. Listen and understand well the lecturer's explanation related to logistics management and can understand e-procurement 3. Learn to solve supply chain problems 	<p>Learning Process (PB): 100 minutes</p> <p>Independent Activities (KM): 2x60 minutes</p> <p>Structured Assignment (PT): 2x 60 minutes</p>	<p>Material:</p> <ol style="list-style-type: none"> 1. Understanding and role of SCM. 2. Strategy and supply chain design. 3. Supply chain management. 4. Outsourcing. 5. Logistics management and e-procurement design. 6. An effective and efficient supply chain. 7. Supply chain performance measurements <p>Library: 3,4,5</p>	7

			strategies and designing supply chains)				
14	SUBCPMK 7: Students are able to perform Pasok Chain Management(Supply Chain Management / SCM) and master Material Requirement Planning (MRP)	<ol style="list-style-type: none"> Students can understand the purpose of the MRP and know the components of the MRP. Students can identify the MRP process and can calculate and plan supplies by lot sizing, pegging, and RCCP methods. 	<p>Assessment criteria:</p> <ol style="list-style-type: none"> Accuracy in understanding the purpose of the MRP and knowing the components of the MRP. Accuracy in identifying the MRP process and can calculate. Accuracy in calculating and planning inventory by lot sizing, pegging, and RCCP methods <p>Assessment Techniques: Project Assessment (Grouply identifies the MRP process and can calculate)</p>	<p>Form of Learning: Synchronous And Collaborative Asynchronous Lectures</p> <p>Methods: Problem based learning and assignment</p> <p>Media:Print Media (Articles, References),video and Presentation Media</p> <p>Student learning experience:</p> <ol style="list-style-type: none"> Listen to explanations of the purpose of the MRP and the components of the MRP Listen and understand well identifying and calculating the MRP process Learn to calculate and plan supplies by lot sizing, pegging, and RCCP methods 	<p>Learning Process (PB): 100 minutes</p> <p>Independent Activities (KM): 2x60 minutes</p> <p>Structured Assignment (PT): 2x 60 minutes</p>	<p>Material:</p> <ol style="list-style-type: none"> Understanding and purpose of the MRP. MRP components. MRP process. Lot sizing: Lot for Lot (LFL), Part Period Balancing (PPB), Period Order Quantity (POQ). Pegging. Rough-Cut Capacity Planning (RCCP). 	7
Final Exam							



ASSESSMENT OF COURSE LEARNING ACHIEVEMENT (CP-MK)

Courses	Production and Operations Management in Agribusiness
Semester	V (Five)
Course Code	MKW60729
Mk Master Lecturer	Dr. Dwi Susilowati, S.P., M.P.
Courses	Agribusiness
Faculty	Agriculture

ISLAMIC UNIVERSITY OF MALANG 2019

MATRIC ASSESSMENT OF LEARNING ACHIEVEMENT COURSES (CP-MK)

Courses: Production and operations management in Agribusiness
 Semester: V (Five)
 Lecturer: Dr. Dwi Susilowati, S.P., M.P.
 Study Program: Agribusiness

Week	CPL	CPMK	Sub-CPMK	Indicators	Assessment Technique - Assessment Instrument- Weight (%)		Weight (%) Sub-CPMK	Student Grades (0-100)	Σ (Student Grade) X (Weights %)	CPL's ability to MK (%)
1-2	ILO 2 Knowing and understanding the rules / principles of Agribusiness, social sciences, economics, and agricultural engineering as the foundation of innovative Agribusiness disciplines	CPMK 1 - M ampu students conceptualize production management and operations in agribusiness and production process strategy and operations	Sub-CPMK 1 Students are able to apply the concept of functions and strategies of operations production management in agribusiness	Indicators: 1. Students are able to understand the concept of operational production management functions in agribusiness 2. Students are able to master the scope in production management and operations in agribusiness 3. Students are able to distinguish the production management of goods and services operations in agribusiness companies. 4. Students are able to implement operations production management strategies in	Assessment Techniques: 1. Assignment (Create MPO concepts and strategies for agribusiness companies) 2. Presentation of concepts and strategies of operating production management in agribusiness 3. Performance Assessment (Observation of performances during discussions)	5 5 5	15	80,47	12,07	80.47 %

				<p>agribusiness</p> <p>Assessment Criteria:</p> <ol style="list-style-type: none"> 1. Ketepatan in studying and explaining the concept of operational production management functions in agribusiness. 2. Accuracy in reviewing and explaining the scope in production management and operations in agribusiness 3. Accuracy in distinguishing the production management of goods and services operations in agribusiness companies 4. Accuracy in reviewing the application of operations production management strategies in agribusiness 	<ol style="list-style-type: none"> 1. Rubric of job performance assessment 2. Task Matters 					
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3-4	ILO 6: Able to plan, conduct and evaluate projects that are in accordance with techniques, methods, limitations, and interpret data and then draw conclusions.	CPMK 2 Mis able to make demand forecasting and product design	SUB CPMK 2: Students are able to forecast product demand and design products in agribusiness companies	<ol style="list-style-type: none"> 1. Students are able to forecast the demand for products and services in agribusiness companies 2. Students are able to choose models of forecasting goods and services in agribusiness companies 3. Students are able to understand and be able to design products and operations in agribusiness companies. 4. Students are able to understand and create product development strategies and operations in agribusiness companies. 	<ol style="list-style-type: none"> 1. forecasting demand for products and services as well as product design and operations at agribusiness companies 2. Presentation of designing products and processes at agribusiness companies 3. Performance Assessment (Observation of performances during discussions) 	6	14	80,47	11,2 7	80,47%
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Week	CPL	CPMK	Sub-CPMK	Indicators	Assessment Technique - Assessment Instrument- Weight (%)		Weight (%) Sub-CPMK	Student Grades (0-100)	Σ (Student Grade) X (Weights %)	CPL's ability to MK (%)
				Assessment criteria: 1. Accuracy in forecasting the demand for products and services in agribusiness companies 2. Accuracy in choosing models of forecasting the demand for goods and services in agribusiness companies 3. Ketepatan in reviewing and designing products and processes in agribusiness companies. 4. Accuracy in reviewing and making product development strategies and operations in agribusiness companies						
5-6	ILO 6: Able to plan, conduct and evaluate projects that are in accordance with techniques, methods, limitations, and interpret data and then draw	CPMK 2 Mis able to make demand forecasting and product design	SUBCPMK 3: Students are able to plan production capacity and control product supplies	1. Students are able to understand and be able to explain the type of production capacity 2. Students are able to understand and are able to plan for production capacity /operations in agribusiness companies. 3. Students are able to understand and be able to explain their inventory and function in	1. Planned production capacity / operation and supply of products to agribusiness companies 2. Presentation of production capacity planning / operation and inventory of	7 5	17	80,47	13,68	80,47%

	conclusions.			<p>production management in agribusiness companies.</p> <p>4. Students are able to understand and apply the method of assessment of product inventory to agribusiness companies</p> <p>Assessment criteria:</p> <p>1. Ketepatan in studying and explaining the type of production capacity</p> <p>2. Accuracy in reviewing and planningkan production capacity /operation in agribusiness companies</p> <p>3. Ketepatan in reviewing and explaining its inventory and functions in production management in agribusiness companies</p> <p>4. Accuracy in reviewing and applying methods of assessment of product inventory to agribusiness companies</p>	<p>products to agribusiness companies</p> <p>3. Performance Assessment (Observation of performances during discussions)</p>	5				
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Week	CPL	CPMK	Sub-CPMK	Indicators	Assessment Technique - Assessment Instrument- Weight (%)	Weight (%) Sub-CPMK	Student Grades (0-100)	Σ (Student Grade) X (Weights %)	CPL's ability to MK (%)	
7-8	ILO 1: Able to accept and respond to problems regarding entrepreneurship, agribusiness, and green food responsibility.	CPMK 3 Able to control JIT manufacturing, labor management, measurement and performance improvement, Material Requirement Planning (MRP) and Pasok Chain Management(SCM)	SUBCPMK 4: Students are able to master JIT Manufacturing and conduct product quality supervision	<ol style="list-style-type: none"> Students are able to understand and explain the Concept of Just In Time(JIT) Students are able to understand and design Just In Time(JIT) in the goods production sector Students are able to understand and design Just In Time(JIT) in the service sector Students can understand and perform quality in the product-si/operation process. Students can explain and understand the development of quality control management and modern quality control. Students can understand the role of TQC and Six Sigma and improve the quality of goods / services. 	<ol style="list-style-type: none"> Attitude Assessment - presentation and discussion of JITdesign) Performance Assessment (Evaluating the results of the Just In Time(JIT) draft on the production of goods and service sectors) 	<p>7</p> <p>7</p>	14	79,69	11,16	79,69

7. Students can implement quality control by means of inspection, SQC, process control, and process capabilities.

Assessment criteria:

1. Accuracy in explaining the Concept of Just In Time(JIT)
2. Accuracy in designing *Just In Time*(JIT) in the goods production sector
3. Accuracy in designing *Just In Time*(JIT) in the service sector
4. Accuracy in explaining and performing quality in the product-si/operation process.
5. Accuracy in reviewing the development of quality control management and modern quality control
6. Accuracy in improving quality by means of control in the production process

Midle Exam										
9-10	ILO 10:B erperilaku in accordance with the code of ethics and responsibilities of the Agribusiness <i>Entrepreneur</i> profession includes management and marketing, project management, acquisition, personnel management, control.	CPMK 4 Mampu menentuan location and layout of factory location, layout of factory facilities	SUCPMK 5: Students are able to determine the production location and arrange the layout of production facilities	<ol style="list-style-type: none"> 1. Students are able to determine the location of the factory / place of business in accordance with the characteristics of the type of product / service produced based on the method of determining the location of the factory. 2. Students are able to select the location of the factory or place of business 3. Students can design lay-out placements of factory buildings, non-factory buildings and facilities 4. Students are able to determine the design of lay-out equipment / machinery in the factory with certain methods. <p>Assessment criteria:</p> <ol style="list-style-type: none"> 1. Accuracy in determining the location of the factory / place of business in accordance with the characteristics of the type of product / service produced based on the method of determining the location of the factory 2. Accuracy in choosing the location of the 	<ol style="list-style-type: none"> 1. Results of evaluating the location and layout of the production process of goods or services 2. Attitude Assessment (During presentations and discussions) 	6 6	12	80,47	9,66	80,47

				<p>factory or place of business</p> <p>3. Accuracy in designing lay-out placement of factory buildings, buildings not factories and facilities</p> <p>4. Accuracy in determining the design of lay-out equipment / machinery in the factory with certain methods</p>						
11-12	<p>ILO 9: Able to work efficiently, independently and cooperate in teams using various methods to communicate effectively in the scientific community and society.</p>	<p>CPMK 5 Mampu conceptualizes production capacity planning, production resource needs and controlling supplies, quality supervision</p>	<p>SUBCPMK 6: Students are able to plan resource needs for production and conduct workforce management to improve performance</p>	<p>1. Students are able to devise Human Resource Strategies for Competitive Advantage</p> <p>2. Students are able to plan labor.</p> <p>3. Students are able to design jobs.</p> <p>4. Students can understand the importance of workforce management and how to manage the workforce.</p> <p>5. Students can understand the principles of workforce management and its management approach in corporate organs.</p> <p>6. Students can identify workforce management and understand labor</p>	<p>1. Results of preparing HR management strategies in agribusiness companies</p> <p>2. Presentation to agribusiness companies</p> <p>3. Performance Assessment (Observation of performances during discussions)</p>	6	14	81,25	11,34	81,25%

				<p>philosophy.</p> <p>Assessment criteria:</p> <ol style="list-style-type: none">1. Accuracy in reviewing the preparation of Human Resource Strategies for Competitive Advantage2. Accuracy in3. Planning labor4. Accuracy in designing work5. Accuracy in studying the importance of workforce management and how to manage the workforce6. Accuracy in7. management of labor and its management approach in corporate organs8. Accuracy in identifying workforce management and understanding labor philosophy						
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13-14	ILO 1: Able to accept and respond to problems regarding entrepreneurship, agribusiness, and <i>green food</i> dengfulof responsibility.	CPMK 5 Mampu conceptualizes production capacity planning, production resource needs and controlling supplies, quality supervision and PasokChain Management(SCM)	SUBCPMK 7: Students are able to perform Pasok Chain Management(Supply Chain Management / SCM) and master Material Requirement Planning (MRP)	<ol style="list-style-type: none"> 1. Students can understand the importance of the role of SCM in production/operations management. 2. Students can understand supply chain strategies and design supply chains. 3. Students can design logistics management and can understand e-procurement. 4. Students can identify effective and efficient supply chains, and can rate supply chain performance. 5. Students can understand the purpose of the MRP and know the components of the MRP. 6. Students can identify the MRP process and can calculate and plan supplies by lot sizing, pegging, and RCCP methods. 7. Assessment criteria: 8. Accuracy in understanding the strategy of supply chain and designing supply chain 9. Accuracy in designing logistics management and 	Project Assessment In Groups - evaluating the creation of supply chain strategies - design supplychains, identify MRP processes and be able to calculate	7 7	14	80.47	11,27	80,47%
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				<p>can understand e-procurement.</p> <p>10. Accuracy in identifying the supply chain effectively and efficiently, and can kurd the performance of the supply chain</p> <p>11. Accuracy in understanding the purpose of the MRP and knowing the components of the MRP</p> <p>12. Accuracy in identifying MRP processes and can calculate</p> <p>13. Accuracy in calculating and planning inventory by lot sizing, pegging, and RCCP methods</p>						
Final Semester Exam: Reviewing Plant Propagation Results Sexually										
Total Weight (%)						100	100			
									Average CPL Design	

MATRIC RECAP FINAL GRADE STUDENTS

No.	NPM	NAME	SUB-CPMK/WEIGHT (DAILY VALUE)														DAILY VALUE		UTS	UAS	Number	LETTER
			1		2		3		4		5		6		7		Scale 4	Scale of 100	30%	30%		
			Value	15%	Value	14%	Value	17%	Value	14%	Value	12%	value	14%	Value	14%						
1	21701032002	WIDYATI	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	85,39	85	83	84,40	A
2	21701032003	RISKI DWI ELVIANTI	3	0,45	3	0,42	3	0,51	3	0,42	3	0,36	3	0,42	3	0,42	3,03	81,72	75	56	70,40	B
3	21701032004	FIDELINO CARVALHO	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	88,82	89	75	83,68	A
4	21701032006	JA'FAR ABDURRAHMAN	2	0,3	2	0,28	2	0,34	2	0,28	2	0,24	2	0,28	2	0,28	2,02	61,93	45	54	54,72	C
5	21701032009	NOVIA KRISTIANINGSIH	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	84,67	82	83	83,38	A
6	21701032012	SUPARDI	3	0,45	3	0,42	3	0,51	3	0,42	3	0,36	3	0,42	3	0,42	3,03	81,72	73	71	75,52	B
7	21701032013	MUHAMMAD SHOLAHUDDIN F	2	0,3	2	0,28	2	0,34	2	0,28	2	0,24	2	0,28	2	0,28	2,02	56,54	50	64	57,70	C
8	21701032016	BADRULLAH	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	85,39	80	91	86,15	A
9	21701032017	DODIK EKA PRASETYO	3	0,45	3	0,42	3	0,51	3	0,42	3	0,36	3	0,42	3	0,42	3,03	81,72	78	66	74,90	B
10	21701032018	NADIA MISBAKHUL KHOIRO	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	85,07	89	93	89,03	A
11	21701032019	NUR CHAMILA	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	85,07	88	99	91,03	A
12	21701032020	AISHA RAMADHANI	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	85,07	77	93	86,03	A
13	21701032021	JOHAN BUAMONA BOT	2	0,3	2	0,28	2	0,34	2	0,28	2	0,24	2	0,28	2	0,28	2,02	52,83	48	56	52,81	C
14	21701032023	NUR CHOLIS	3	0,45	3	0,42	3	0,51	3	0,42	3	0,36	3	0,42	3	0,42	3,03	81,72	65	59	69,02	B
15	21701032024	DEFI WIDIYASARI	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	87,95	92	93	90,86	A
16	21701032025	FEBI NUR FITRIANA	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	85,39	84	87	85,65	A
17	21701032026	MOHAMMAT ISBATUL CHOIR	4	0,6	4	0,56	4	0,68	3	0,42	4	0,48	4	0,56	4	0,56	4,04	87,97	88	93	89,86	A
18	21701032027	IZZA NAILATUL IFAZAH	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	72,61	66	93	78,60	A
19	21701032028	AHMAD NASRUL MAHASIN	1	0,15	1	0,14	1	0,17	1	0,14	1	0,12	1	0,14	1	0,14	1,01	46,51	45	53	48,57	D
20	21701032029	DWI INDRAWAN	2	0,3	2	0,28	2	0,34	2	0,28	2	0,24	2	0,28	2	0,28	2,02	56,54	63	62	60,20	C
21	21701032030	DAVID PRASETYO ADI CAH	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	80,67	81	84	82,00	A
22	21701032031	ERWINUL MAKKI	2	0,3	2	0,28	2	0,34	2	0,28	2	0,24	2	0,28	2	0,28	2,02	50,72	63	63	58,40	C
23	21701032032	AHMAD SHALIHUDDIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,5	0	0	2,81	E
24	21701032033	FATHUR ROHMAN	2	0,3	2	0,28	2	0,34	2	0,28	2	0,24	3	0,42	2	0,28	2,02	60,01	60	58	59,25	C
25	21701032034	NEVA LIS SAFITRI	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	82,37	89	93	88,01	A
26	21701032035	AFRIANSYAH	3	0,45	3	0,42	3	0,51	3	0,42	3	0,36	3	0,42	3	0,42	3,03	70,12	69	66	68,30	B

27	21701032036	SATRIA HIDAYAT	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	85,39	77	97	87,65	A
28	21701032038	ADE SUKMA PANEMUAN	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,52	4	0,56	4,04	85,39	65	89	81,65	A
29	21701032040	SACICO DESI ANDRIANI	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	80,64	97	95	90,12	A
30	21701032041	MUCHAMMAD RIDWAN ABDUL	3	0,45	3	0,42	3	0,51	3	0,42	3	0,36	3	0,42	3	0,42	3,03	75,75	80	71	75,03	B
31	21701032042	LAILA NUR HAFIIDHA	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	80,67	73	88	81,50	A
32	21701032043	SYAMSUL MA'ARIF	4	0,6	4	0,56	4	0,68	4	0,56	4	0,48	4	0,56	4	0,56	4,04	85,39	93	80	85,27	A
flat			3,22	0,48	3,22	0,45	3,22	0,55	3,19	0,45	3,22	0,39	3,25	0,45	3,22	0,45						
Conversion			80,47	12,07	80,47	11,27	80,47	13,68	79,69	11,16	80,47	9,66	81,25	11,34	80,47	11,27	Percentage of Student Grade A		53,125 %			
																	Percentage of Student Grade B		21,875 %			
																	Percentage of Student Grade C		18,75%			
																	Percentage of Student Grade D		3,125 %			
																	Percentage of Student Grade E		3,125 %			
																	Student grades graduate		96,875 %			
																	Student grades do not graduate		3,125 %			

Information:

* : Student Daily Score = Σ Student Score (which has been multiplied by the weight of each sub-CPMK)

** : Final Grade of Course = $((3 \times \text{Average Daily Value}) + (2 \times \text{UTS Value}) + (3 \times \text{UAS Value})/8$