



UNIVERSITAS SUMATERA UTARA (USU)
FACULTY OF AGRICULTURE
Animal Science Study Program

Document Code
(To follow)

SEMESTER LEARNING PLAN (RPS)

COURSES (MK)	CODE	Constitutional Court	WEIGHT (credits)		SEMESTER	Drafting Date
Abatoir and Cutting Techniques	PTN3202	Exact	Theory = 2	Practice = 1	VI	1 December 20
AUTHORIZATION / ENDORSEMENT	RPS Developer Lecturer		Vice Dean I		Head of USU Link-up	
	Ir. Achmad Sadeli, S.Pt., M.Sc. IPM Asean Eng Kennie Cendekia Desanamrina, S.Pt., M.Pt		Dr. Lisnawita, S.P., M.P.		Prof. DR. Dwi suryanto M.Sc.	
Learning Outcomes	CPL-Study Programs Charged to the Constitutional Court					
	CPL06	Supervise and evaluate the completion of assigned work and be able to manage learning independently throughout life				
	CPL07	Able to disseminate science and the application of the latest TALENTA-based technology in the field of animal husbandry				
	CPL08	Able to manage integrated and sustainable livestock cultivation based on integration with other agroecosystems as well as latest application in the processing of livestock products and waste				
	CPL11	Able to develop and understand and apply a variety of best techniques and methods that combine theory and practice related to animal husbandry expertise				
	Course Learning Outcomes (CPMK)					CPMK Weight
	CPMK0612: Able to explain the fattening process (feedlot) in large and small ruminant livestock					46.2%
	CPMK0704: Able to apply cattle fattening technology to large and small ruminant cattle					15.4%
	CPMK0811: Able to manage feedlots that are integrated with other agroecosystems					15.4%
	CPMK1117: Able to apply feed selection, location selection, fattening system, feed management, health management, business analysis in the livestock fattening business system					23.1%
	Final Ability of Each Learning Stage (Sub-CPMK)					
	Sub-CPMK1	After attending this lecture, students will be able to explain an overview of cattle fattening technology				
	Sub-CPMK2	After attending this lecture, students will be able to explain nutrition and feed for fattening cattle				
	Sub-CPMK3	After attending this lecture, students will be able to explain the management of feedlot livestock maintenance				


	Sub-CPMK4	After attending this lecture, students will be able to explain the management of feedlot livestock harvesting					
	Sub-CPMK5	After attending this lecture, students will be able to explain the economics of feedlot cattle fattening					
	Sub-CPMK6	After attending this lecture, students will be able to explain the economics of feedlot cattle fattening.					
Correlation between CPMK and Sub-CPMK		Sub-CPMK1	Sub-CPMK2	Sub-CPMK3	Sub-CPMK4	Sub-CPMK5	Sub-CPMK6
	CPMK0611	√	√	√	√	√	√
	CPMK0810			√	√		
	CPMK1116			√	√		
	CMPK1210				√	√	√
Brief Description of Courses	This course is designed to provide an in-depth study of material related to slaughterhouses and slaughtering techniques, so that it is hoped students can become graduates who are able to think logically, critically and systematically in applying and developing the knowledge that has been obtained about slaughterhouse management and slaughterhouses. This course is carried out with the language of instruction, namely Indonesian, and face-to-face meetings are carried out 14 times consisting of structured assignments, <i>case methods</i> , and practicum both offline and online.						
Study Material: Learning Materials	BK03 Livestock Production Science BK07 Application and Development of Animal Science and Technology <ol style="list-style-type: none"> 1. Introduction to Feedlot Livestock Fattening Technology 2. Feedlot Structure and Layout 3. Feedlot Livestock Nutrition Needs 4. Animal Feed Ingredients 5. Preparation of Feedlot Livestock Rations 6. Feedlot Animal Feed Management 7. Selection and Selection of Feed Animals 8. Feedlot Cattle Ranch Management 9. Feedlot Livestock Health Management 10. Feedlot Cattle Stress Management 11. Feedlot Cattle Harvesting Management 12. Feedlot Cattle Fattening Economics 						

13. Case Study of Feedlot Livestock Fattening							
Book		Main: <ol style="list-style-type: none"> 1. Abidin, I. Z. (2008). Fattening of beef cattle. AgroMedia. 2. Soeprapto, I. H. (2010). The right way to fatten beef cattle. AgroMedia. 3. Sudarmono, A. S., & Sugeng, Y. B. (2016). <i>Guide to Raising Beef Cattle</i>. Dispersal of Self-Help Groups. 4. Alif, S. M. (2017). <i>Tips for Successful Fattening of Beef Cattle</i>. Bio Genesis. 5. Yulianto, P., & Saparinto, C. (2012). Fattening of slaughter cattle per day 3 months of harvest. Dispersal of Self-Help Groups. 6. Fikar, S., & Ruhyadi, D. (2010). Raising & Beef Cattle Business. AgroMedia. 7. Sutyono, S. (2021). Textbook: STRATEGIES TO INCREASE THE NUMBER OF BEEF CATTLE PREGNANCIES BY APPLYING ESTRUS SYNCHRONIZATION TECHNOLOGY USING PROGESTERONE SPONGES. 					
		Supporter: <ol style="list-style-type: none"> 1. Law No. 18 of 2009 on Livestock and Animal Health 2. Ministerial Regulation No. 381 of 2005 concerning Guidelines for Veterinary Control Certification 3. Practicum handbook 4. National and international journals 					
Lecturer							
Conditional Courses		Students are expected to have completed the course <ol style="list-style-type: none"> a. Science of Production Cut and Work b. Animal Health Sciences and Veterinary Society 					
(1)	Final ability of each stage of learning (Sub-CPMK)	Valuation		Forms of Learning; Learning Methods; Student Assignment; [Estimated Time]		Study Materials (Learning Materials)	Assessment Weight (%)
		Indicator	Criteria and Techniques	Asynchronous (5)	Synchronous (6)		
1	Sub-CPMK1: After attending this lecture, students will be able to explain an overview of Feedlot Livestock Fattening Technology	<ol style="list-style-type: none"> a. Accuracy in explaining the definition and purpose of feedlot cattle fattening b. Accuracy in explaining the concept of feedlot cattle fattening 	Criterion: - Technique: Non test	KM+PT (1 week x 3 credits x 120 minutes) Learning Methods: Self-Paced Learning Activities: <ol style="list-style-type: none"> a. Attendance b. Download and read Syllabus (RPS), 	TM (1 week x 2 credits x 50 minutes) Learning Methods: <ol style="list-style-type: none"> a. Reading b. Discussion Activities: <ol style="list-style-type: none"> a. Online/ offline learning b. Class discussion 	Subject Matter: <ol style="list-style-type: none"> a. Tuition Contract b. Definition and purpose of fattening feedlot cattle c. Feedlot cattle fattening system 	0%

		c. accuracy in explaining the advantages and disadvantages of feedlot cattle fattening		Learning Implementation Plan (SAP), Course Agreement, and Learning Materials Moda (Learning Management System): kelas.usu.ac.id	c. Take notes on learning materials Media: a. Slides/ ppt b. Zoom meeting/ LCD c. Text book	d. Advantages and disadvantages of fattening feedlot cattle
2	Sub-CPMK 1: After attending this lecture, students will be able to explain an overview of Feedlot Livestock Fattening Technology	a. Accuracy in explaining the types of feedlots b. Accuracy in explaining feedlot location requirements c. accuracy in explaining feedlot design and layout	Criterion: Using the assessment rubric Technique: <i>Non test</i>	KM+PT (1 week x 3 credits x 120 minutes) Learning Methods: <i>Self-Paced Learning</i> Activities: a. Attendance Moda (Learning Management System): 1_kelas.usu.ac.id	TM (1 week x 2 credits x 50 minutes) Learning Methods: a. Lecture b. Discussion Activities: a. Online/ offline learning b. Class discussion c. Take notes on learning materials Media: a. Slides/ ppt b. Zoom meeting/ LCD c. Text book	Subject Matter: a. Types of feedlots b. Feedlot location requirements c. Feedlot design and layout
3-6	Sub-CPMK 2: After attending this lecture, students will be able to explain nutrition and feed for fattening cattle	a. Accuracy in explaining the energy needs of feedlot livestock b. Accuracy in explaining the	Criterion: Assessment Rubric Technique: <i>Test:</i> a. <i>Case Method</i> b. <i>Quiz</i>	KM+PT (2 weeks x 3 credits x 120 minutes) Learning Methods: <i>Self-Paced Learning</i> Activities:	TM (2 weeks x 2 credits x 50 minutes) Learning Methods: a. Lecture b. Discussion	Subject Matter: a. Energy needs of feedlots b. Protein needs of feedlots

The sub-CPMK will be assessed during the UTS with a weight of 7.7% percent of the UTS assessment weight (15%)

Case method 1-3: 1 & Quiz 5% (CPMK 11)

		<p>protein needs of feedlot livestock</p> <p>c. Accuracy in explaining the vitamin and mineral needs of feedlot livestock</p> <p>d. Accuracy in explaining the types of animal feed ingredients</p> <p>e. Accuracy in explaining the quality of animal feed ingredients</p> <p>f. Accuracy in explaining the processing of animal feed ingredients</p> <p>g. Accuracy in explaining the principles of preparing feedlot livestock rations</p> <p>h. Accuracy in explaining</p>		<p>a. <i>Recording attendance</i></p> <p>b. <i>Completing quiz and assignment</i></p> <p>Case Method 1-3:</p> <p>a. <u>Divide the group evenly (the lecturer divides) into 3 groups</u></p> <p>b. <u>Create a paper on feed in the livestock fattening technology industry/feedlot with a maximum of 15 pages from the table of contents to the TMR font bibliography size 12 spaces 1.5 sent in pdf form</u></p> <p>c. <u>Group presentations</u></p> <p>Quiz 1: <i>Quiz to measure students' understanding of livestock fattening business</i></p>	<p>Activities:</p> <p>a. Online/ offline learning</p> <p>b. Class discussion</p> <p>c. Take notes on learning materials</p> <p>d. Presentation</p> <p>Media:</p> <p>a. Slides/ ppt</p> <p>b. Zoom meeting/ LCD</p> <p>c. Text book</p>	<p>c. Feedlot livestock vitamin and mineral needs</p> <p>d. Types of animal feed ingredients</p> <p>e. Quality of animal feed ingredients</p> <p>f. Processing of animal feed materials</p> <p>g. Principles of preparing feedlot livestock rations</p> <p>h. Factors affecting the preparation of feedlot livestock rations</p> <p>i. Example of preparing a feedlot livestock ration</p> <p>j. Storage of animal feed materials</p>
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		<p>Factors that affect the preparation of feedlot livestock rations</p> <p>i. Accuracy in explaining the preparation of feedlot livestock rations</p> <p>j. Accuracy in explaining the storage of animal feed ingredients</p> <p>k. Accuracy in explaining the distribution of animal feed</p> <p>l. Accuracy in explaining Livestock Drinking Water Management</p>		<p>Moda (Learning Management System): kelas.usu.ac.id</p>		<p>k. Distribution of animal feed</p> <p>l. Livestock drinking water management</p>
7	Sub-CPMK 3:	a. Accuracy in explaining the purpose of	<p>Criterion: Using the assessment rubric</p>	KM+PT (1 week x 3 credits x 120 minutes)	TM (1 week x 2 credits x 50 minutes)	<p>Subject Matter:</p>

The sub-CPMK will

	After attending this lecture, students will be able to explain the management of feedlot livestock maintenance	<ul style="list-style-type: none"> selection and selection of feeder livestock b. Factors considered in the selection and selection of feeder livestock c. Selection and selection techniques for feeder livestock 	Technique: <i>Non test</i>	Learning Methods: <i>Self-Paced Learning</i> Activities: a. Attendance Moda (Learning Management System): kelas.usu.ac.id	Learning Methods: a. Lecture b. Discussion Activities: a. Online/ offline learning b. Class discussion c. Take notes on learning materials Media: a. Slides/ ppt b. Zoom meeting/ LCD c. Text book	<ul style="list-style-type: none"> a. Purpose of selection and selection of feeder livestock b. Factors considered in the selection and selection of feeder livestock c. Selection and selection techniques for feeder livestock 	<i>asses</i> duri UTS w weigh 23% perce the we of the assess (15%
8	MID SEMESTER EXAMINATION						15%
9-10	Sub-CPMK 3: After attending this lecture, students will be able to explain the management of feedlot livestock maintenance	<ul style="list-style-type: none"> a. Accuracy in explaining the design and construction of feedlot cattle cages b. Accuracy in explaining the sanitary management of feedlot livestock pens 	Criterion: Using the assessment rubric Technical: <i>Non test</i>	KM+PT (1 week x 3 credits x 120 minutes) Learning Methods: <i>Self-Paced Learning</i> Activities: a. Attendance	TM (1 week x 2 credits x 50 minutes) Learning Methods: a. Lecture b. Discussion Activities: a. Online/ offline learning b. Class discussion	Subject Matter: <ul style="list-style-type: none"> a. Design and construction of feedlot cattle pens b. Sanitary management of feedlot livestock pens a. Climate management of 	The sub-CP will <i>asses</i> duri UAS a weigh 23% perce the U assess

		c. Accuracy in explaining the climate management of feedlot livestock cages		Moda (Learning Management System): kelas.usu.ac.id	c. Take notes on learning materials Media: a. Slides/ ppt b. Zoom meeting/ LCD c. Text book	feedlot cattle pens b. Prevention of diseases in feedlot cattle c. Treatment of diseases in feedlot cattle d. Biosecurity in feedlots e. Factors that cause stress in feedlot cattle f. Stress management in feedlot cattle	weig (15%)
11	Sub-CPMK 4: After attending this lecture, students will be able to explain the management of feedlot livestock harvesting	a. Accuracy in explaining the determination of the harvest time of feedlot livestock b. Accuracy in explaining feedlot livestock harvesting techniques c. Accuracy in explaining post-harvest handling of feedlot livestock	Criterion: Assessment Rubric Technique: <i>Test:</i> a. Case Method b. Quiz	KM+PT (2 weeks x 3 credits x 120 minutes) Learning Methods: <i>Self-Paced Learning</i> Activities: a. Recording attendance b. Completing quiz and assignment c. Field visit/ cutting practicum Case Method 4-5: a. Divide the group evenly (the lecturer divides) b. Make a paper on halal cutting in	TM (2 weeks x 2 credits x 50 minutes) Learning Methods: a. Reading b. Discussion Activities: a. Online/ offline learning b. Class discussion c. Take notes on learning materials d. Presentation Media: a. Slides/ ppt b. Zoom meeting/ LCD c. Text book	Subject Matter: a. Determination of the harvest time of feedlot livestock b. Feedlot livestock harvesting techniques c. Post-harvest handling of feedlot livestock	Case meth 4-5: 1 & Quiz 2 (CPMK 11 CPMK 0, CPMK 6 & CMPK 0)

				<p>ruminants with a maximum of 15 pages from the table of contents to the bibliography, font TNR 12 pt space 1.5 sent in pdf form</p> <p>c. Group presentations</p> <p>d. Making a chicken slaughtering practicum report and <i>field visit</i></p> <p>Quiz 2:</p> <p><i>Quiz to measure students' understanding of differences in slaughter rules in livestock</i></p> <p>Moda (Learning Management System): kelas.usu.ac.id</p>			
12-13	<p>Sub-CPMK 5:</p> <p>After attending this lecture, students will be able to explain the economics of feedlot cattle fattening</p>	<p>a. Accuracy in explaining the cost of feedlot livestock production</p> <p>b. Accuracy in explaining</p>	<p>Criterion: Assessment Rubric</p> <p>Technical: <i>Test:</i> quiz</p>	<p>KM+PT (2 weeks x 3 credits x 120 minutes)</p> <p>Learning Methods: <i>Self-Paced Learning</i></p> <p>Activities:</p>	<p>TM (2 weeks x 2 credits x 50 minutes)</p> <p>Learning Methods: a. Reading b. Discussion</p>	<p>Subject Matter:</p> <p>a. The cost of feedlot cattle production</p> <p>b. Feedlot cattle sales revenue</p>	<p>Quiz 3 (CPM 11 CMPK 0)</p>

		<p>feedlot livestock sales revenue</p> <p>c. Accuracy in explaining the feasibility analysis of the feedlot cattle fattening business</p>		<p>a. <i>Recording attendance</i></p> <p>b. <i>Completing quiz</i></p> <p>Quiz 3: <i>Quiz to measure students' understanding of the economic side of feedlot livestock</i></p> <p>Moda (Learning Management System): kelas.usu.ac.id</p>	<p>Activities:</p> <p>a. Online/ offline learning</p> <p>b. Class discussion</p> <p>c. Take notes on learning materials</p> <p>Media:</p> <p>a. Slides/ ppt</p> <p>b. Zoom meeting/ LCD</p> <p>c. Text book</p>	<p>c. Analysis of the feasibility of feedlot cattle fattening business</p>	
14-15	<p>Sub-CPMK 6:</p> <p>After attending this lecture, students will be able to explain the economics of feedlot cattle fattening.</p>	<p>a. Accuracy in explaining the analysis of feedlot cattle fattening case studies</p>	<p>Criterion: Assessment Rubric</p> <p>Technical: <i>Test:</i> Quiz</p>	<p>KM+PT (2 weeks x 3 credits x 120 minutes)</p> <p>Learning Methods: <i>Self-Paced Learning</i></p> <p>Activities:</p> <p>a. <i>Recording attendance</i></p> <p>b. <i>Completing quiz</i></p> <p>Quiz 4: <i>Quiz to measure students' understanding of the beef cattle trading system</i></p>	<p>TM (2 weeks x 2 credits x 50 minutes)</p> <p>Learning Methods:</p> <p>a. Reading</p> <p>b. Discussion</p> <p>Activities:</p> <p>a. Online/ offline learning</p> <p>b. Class discussion</p> <p>c. Take notes on learning materials</p> <p>Media:</p> <p>a. Slides/ ppt</p> <p>b. Zoom meeting/ LCD</p> <p>c. Text book</p>	<p>Subject Matter:</p> <p>a. Analysis of feedlot cattle fattening case studies</p> <p>b. Learnings from the case study of feedlot cattle fattening</p>	<p>Quiz 4 (CPMK 11 & CMPK 0)</p>

				Moda (<i>Learning Management System</i>): kelas.usu.ac.id			
16	FINAL SEMESTER EXAMINATION						15%

CPMK Fulfillment Matrix with Types of Evaluation and Process

Form of Evaluation	CPMK0611	CPMK0810	CPMK1116	CPMK1210
Quiz	Quiz assessment	Quiz assessment	Quiz assessment	Quiz assessment
Case Method (presentation and participation in discussions, and practicum reports/field visits)	a. Presentation assessment rubric b. Practicum report	a. Presentation assessment rubric b. Practicum report	a. Presentation assessment rubric b. Practicum report	a. Presentation assessment rubric b. Practicum report
UTS	UTS Assessment (Multiple Choice Questions and Essay Questions)			
UAS	UAS Assessment (Multiple Choice Questions and Essay Questions)	UAS Assessment (Multiple Choice Questions and Essay Questions)	UAS Assessment (Multiple Choice Questions and Essay Questions)	

Assessment Plan

Form of Evaluation	Weight	Frequency
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Quiz	20	4 (held in weeks 5, 13, 14, 15)
Case Method	50	5 (held in weeks 3, 4, 5, 11, 12)
UTS	15	1 (held in the 8th week)
UAS	15	1 (held in the 16th week)
Total	100%	

Explanation:

- a) Quiz 20%
During the semester there will be 2 quizzes held in class. The quiz will be conducted through e-learning and has been scheduled in advance. The material tested is announced by the lecturer and written in the RPS. During the semester there will be 2 structured tasks. The assignment given is an effort to increase insight by making a resume related to the material written in the RPS.
- b) Case Method 50%
During the semester there will be a case method, each student will make papers and reports from each case method in groups. The case method in this course is carried out 5 times. The paper that has been made will be presented by the student. Students will be assessed according to their participation in the presentation and accuracy in the presentation, as well as their participation in the question and answer session when other groups make presentations.
- c) UTS 15%
The midterm exam covers all the material that has been discussed from the beginning of the semester to the 7th meeting, both reading and lecture. This exam is conducted in class in the form of multiple-choice questions, short fills, and essays.
- d) UAS 15%
The final semester exam covers all the material that has been discussed from the 9th to the 15th meeting, both readings and lectures. This exam is conducted in class in the form of multiple-choice questions, short fills, and essays.

ASSESSMENT SCORE

Post Test Quiz Assessment Rubric (10%)

Pre/Post test questions have 5 essay questions done on a piece of paper (done 2 times for 1 semester)

Grades per item of the question	Criterion
20	Be able to answer questions correctly, the steps to work on the questions correctly, and be completely correct
15	Steps to work on the correct questions, there are few mistakes
10	Most of the steps to work on the questions are correct, there are many mistakes
5	The steps to work on the questions are not precise, unable to solve the questions

***Maximum score = 100 (5 questions x 20 points)**

Minimum score = 25 (5 questions x 5 points)

Quiz score 1: (maximum score is 100) $20 \times \sum \text{nilai per butir soal}$

Quiz score 2: (maximum score is 100) $20 \times \sum \text{nilai per butir soal}$

Quiz score 3: (maximum score is 100) $20 \times \sum \text{nilai per butir soal}$

Quiz score 4: (maximum score is 100) $20 \times \sum \text{nilai per butir soal}$

The total score if you take the entire post-test quiz with a perfect score of 400 x 5% [quiz percentage] = 20



Group Presentation Task Assessment Rubric (50%)

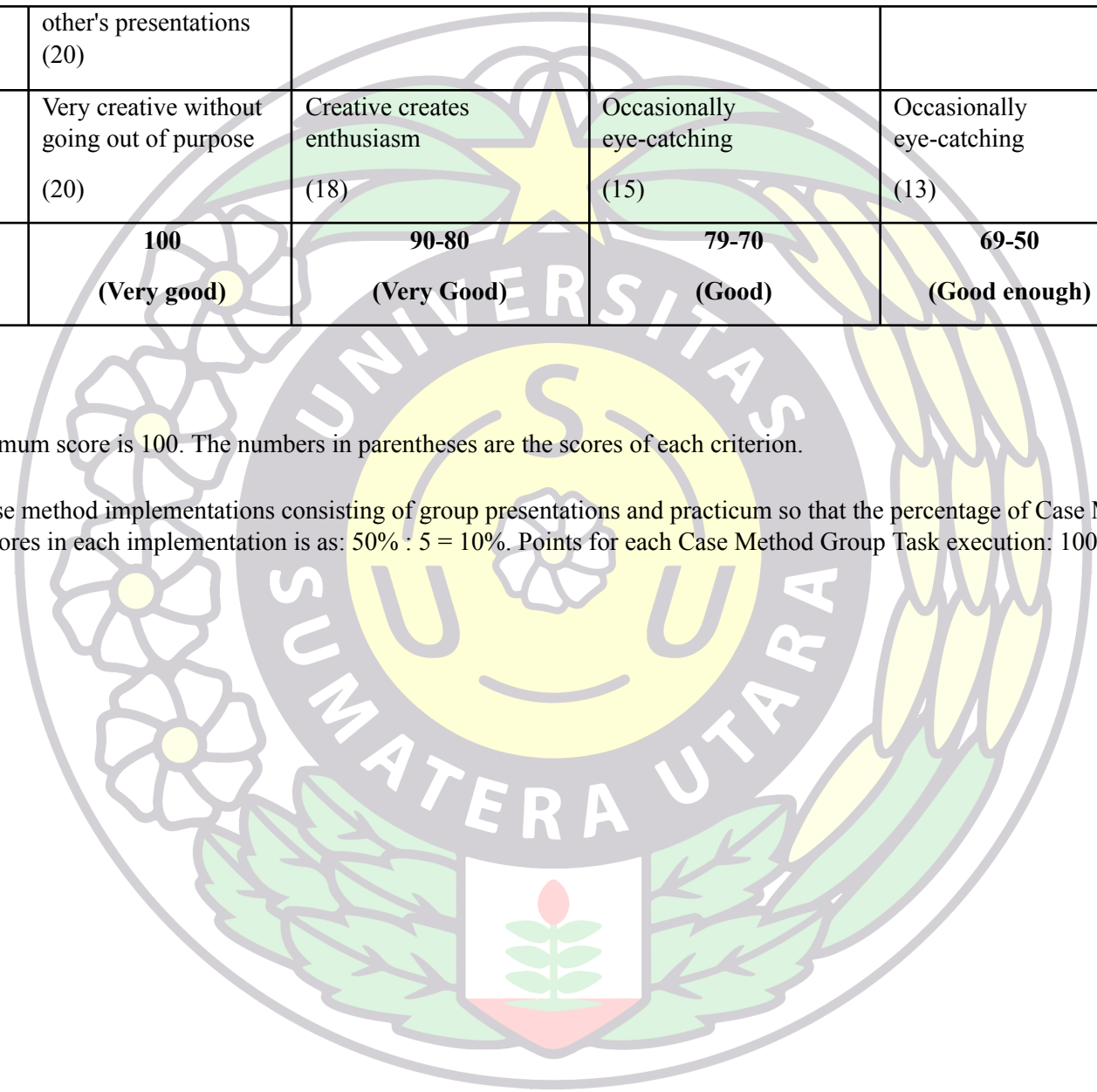
Thing	Evaluation criteria				
Fill	Complete, with additional good material (20)	Complete (18)	Same as text book (16)	Not complete, but most of the material has been covered (14)	Substantially incomplete (12)
Answering discussion questions	Able to answer all questions correctly (20)	Can answer most questions correctly but there are unanswered questions (18)	Be able to answer some of the maps correctly, others do not reach the target and there are unanswered questions (16)	Most of the answers don't hit the target and there are unanswered questions (14)	Can't answer all questions (12)
Presentation	Clear, concise with good groove (20)	Obviously, concise with a plot is sometimes not good (18)	Medium presentation skills (16)	Stuttering Presentations (14)	Presentation not running (12)
Group organization	Very good organization, supporting each	Nice organization (18)	Medium organization, some people are organized (16)	Lack of organization so that communication errors often occur (14)	The organization is chaotic so the presentation is very disrupted

	other's presentations (20)				(12)
Creativeness	Very creative without going out of purpose (20)	Creative creates enthusiasm (18)	Occasionally eye-catching (15)	Occasionally eye-catching (13)	Dull, sleepy (11)
TOTAL	100 (Very good)	90-80 (Very Good)	79-70 (Good)	69-50 (Good enough)	59-40 (Not Good)

Information:

The total maximum score is 100. The numbers in parentheses are the scores of each criterion.

There are 5 case method implementations consisting of group presentations and practicum so that the percentage of Case Method Group Assignment scores in each implementation is as: $50\% : 5 = 10\%$. Points for each Case Method Group Task execution: $100 \times 10\% = 10$ points.



Essay Exam Assessment Rubric:

Assessment Criteria	4 Excellent	3 Good	2 Enough	1 Less
Understanding Questions	Understand the question exactly (25)	Understanding questions (20)	Not understanding the question fully and accurately (15)	Don't understand the question (10)
Fill	Answers show understanding in-depth to the material asked and participants integrate the information that has been learned and/or assigned to be read during the lecture properly and appropriately (25)	Answers show an understanding of the material asked and integrate some of the information that has been learned and/or assigned to be read during the lecture. (20)	The answer shows a lack of understanding of the material being asked and only integrates A small portion of the information that has been learned and/or assigned to be read during lectures. (15)	The answer shows an incomprehension of the material asked so that it is not clear and does not integrate information that has been learned and/or assigned to be read during lectures. (10)
Clarity of Writing	All the ideas of the writing are conveyed well and clearly. (25)	Most of the ideas of writing are conveyed well and clearly. (20)	Some of the ideas of the writing are conveyed well and clearly. (15)	The idea of writing is not conveyed properly and clearly. (10)
Language Clarity	Use foreign / Indonesian language well and correctly, few grammatical errors and word choices that do not interfere with understanding	Use foreign / Indonesian languages well and correctly with few grammatical errors and word choices that interfere with understanding.	Using a foreign language / Indonesian quite well and correctly with some grammatical errors and word choices	Not using foreign/Indonesian languages properly and correctly because the writing contains many

	(25)	(20)	(15)	grammatical errors and word choices (10)
Total	81-100 (Very Good)	61-80 (Good enough)	41-60 (Enough)	0-40 (Less)

Multiple Choice Exam Assessment Rubric:

Grades per item of the question	Criterion
100/ many questions	Be able to answer questions correctly
0	The answer is not correct/not in accordance with the available answer key