SEMESTER COURSE PLAN (SCP)

LIVESTOCK HEALTH SCIENCES
(23I01120403)

TEACHING TEAM :

Prof. Dr. drh. Ratmawati Malaka, M.Sc.
196407121989112002

drh. Farida Nur Yuliati, M.Si.
196407191989032001

BACHELOR PROGRAMME IN ANIMAL HUSBANDRY
FACULTY OF ANIMAL SCIENCE
HASANUDDIN UNIVERSITY
MAKASSAR
2025

BACHELOR PROGRAMME IN ANIMAL HUSBANDRY
FACULTY OF ANIMAL SCIENCE
HASANUDDIN UNIVERSITY

Vision

Vision of the study program :
Becoming an international standard in livestock education provider based on the Indonesian Maritime Continent

Vision Strategic

In accordance with the vision, mission, and objectives that have been set, the Animal Husbandry Study Program of the Faculty of Animal Science sets the following objectives to be achieved:

a. Improving the quality of learning implementation that is in line with the needs of industry and society based on research and international standards;
b. Creating networks and partnerships in the development of Animal Husbandry science and technology and its utilization in the implementation of learning;
c. Producing graduates who have character, vision, creativity and innovation in the field of animal husbandry science and technology with an entrepreneurial perspective.

Mission

The mission carried out in the implementation of the Bachelor of Animal Husbandry Study Program, Faculty of Animal Husbandry, Hasanuddin University is

1) Organizing quality learning to produce independent and globally competitive Animal Husbandry scholars.
2) Developing animal husbandry science for the benefit of the nation.
3) Providing a conducive academic climate for implementing education with an entrepreneurial perspective.

Graduate Profiles

No	Profile	Description
1	Manager	Graduates who apply concepts and techniques in managing livestock farming and institutions related to livestock businesses such as financial institutions
2	Young Researcher	Graduates who able to apply scientific concepts and methods in solving problems in the development of the field of Animal Husbandry
3	Planners	Graduates who able to prepare potential and problem analysis, as well as formulate plans and strategies for the development of the livestock and related industries
4	Educators	Graduates who have the ability and skills to transfer science and technology to students in the field of animal husbandry
5	Entrepreneur	Graduates who able to apply business in the field of Animal Husbandry as their main business, or business development to support livestock business
6	Bureaucrat	Graduates who are able to organize government duties, especially in the affairs of livestock development

Learning Outcomes imposed on the Course

ILO-3 (P2) - Mastering the concept and problem solving of livestock based on data, science and scientific methods (K-02).

ILO-4 (KU1) - Able to apply logical, critical, systematic, and innovative thinking in the context of devSLOping or implementing information technology-based science and technology (GS-01).

ILO-7 (KK1) - Able to apply animal husbandry science and technology oriented towards increasing production, efficiency, quality, and sustainability (SS-01).

Course Learning Outcomes (CLO)

CLO-1: Students are able to detect parasites (ILO3)

CLO-2: Students are able to analyze poultry diseases and their prevention through biosecurity and vaccination (ILO4)

CLO-3: Students are able to analyze animal diseases and their prevention through biosecurity and vaccination (ILO7)

Sub-CLO

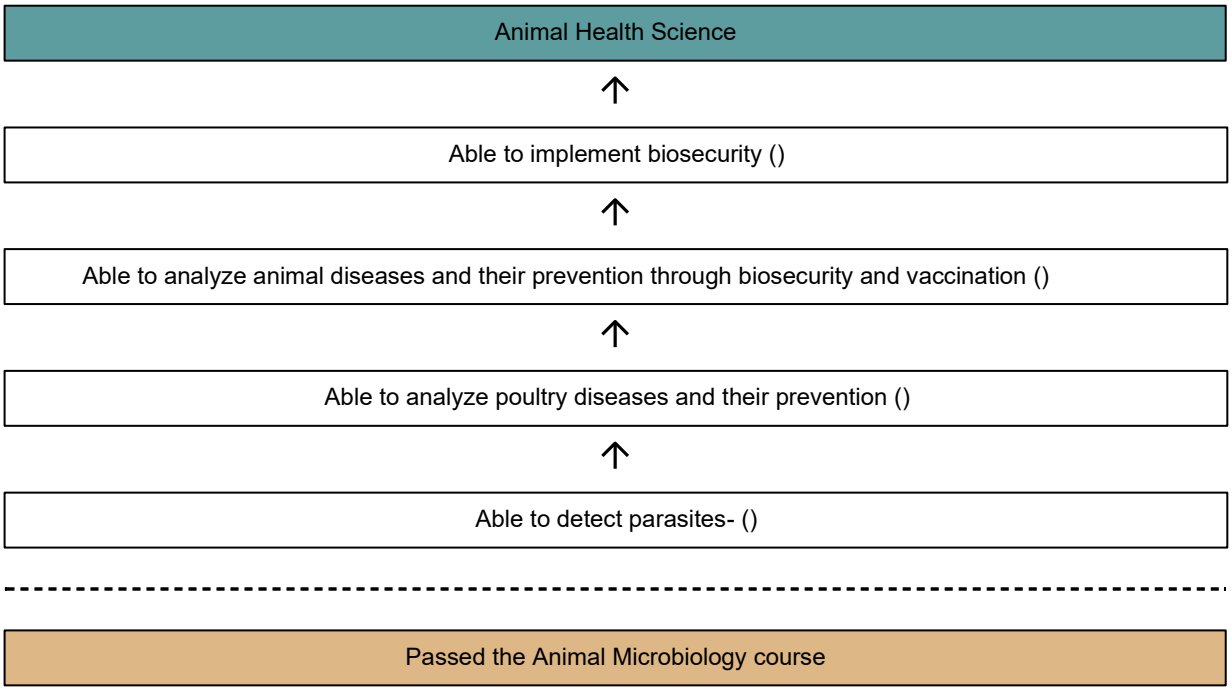
Sub CLO-2: Able to analyze poultry diseases and their prevention ()

Sub CLO-3: Able to analyze animal diseases and their prevention through biosecurity and vaccination ()

Sub CLO-4: Able to implement biosecurity ()

Sub CLO-1: Able to detect parasites- ()

Learning Analysis



HASANUDDIN UNIVERSITY
FACULTY OF ANIMAL SCIENCE
BACHELOR PROGRAMME IN ANIMAL HUSBANDRY
SEMESTER COURSE PLAN

Course	Code	Course Group	Credit Points	Semester	Date of Preparation
Livestock Health Sciences	23I01120403	Production	3	3	11 August 2024

Authority	Developer Lecturer	Course Coordinator	Head of study Program
	Prof. Dr. drh. Ratmawati Malaka, M.Sc. drh. Farida Nur Yuliati, M.Si	drh. Farida Nur Yuliati, M.Si	Dr. Agr. Ir. Renny Fatmyah Utamy, S. Pt., M. Agr., IPM

Course Learning Outcomes		
	ILOs that are imposed on the course	
	ILO-3	Mastering concepts and problem solving in livestock farming based on data, science, and scientific methods.
	ILO-4	Able to apply logical, critical, systematic, and innovative thinking in the context of developing or implementing information technology-based science and technology.
	ILO-7	Able to apply animal husbandry science and technology oriented towards increasing production, efficiency, quality, and sustainability.
	ILO⇒ Course Learning Outcomes (CLO)	
	Upon completion of this course, it is expected that:	
	ILO-3	**CLO-1:** Students are able to detect parasites
	ILO-4	**CLO-2:** Students are able to analyze poultry diseases and their prevention through biosecurity and vaccination.
	ILO-7	**CLO-3:** Students are able to analyze animal diseases and their prevention through biosecurity and vaccination.
	CLO⇒ Sub-CLOs	
	Correlation between ILOs/CLOs to Sub-CLOs	

ILOs that are imposed on the course	CLO	SUB CLO	Form Assessment+								Weight	Value	Student Score
			Formative	Summative									
				Group Presentation	Interactive Lecture	Individual Paper	Quiz	Problem Base Learning	Practicum/Field Practice	Case Study			
ILO-	CLO-	SUB-CLO-1		0	3	7	0	0	0	0	10		
ILO-	CLO-	SUB-CLO-2		0	0	0	0	0	7	5	12		
ILO-	CLO-	SUB-CLO-2		4	1	0	0	0	0	0	5		
ILO-	CLO-	SUB-CLO-3		0	0	0	0	0	7	5	12		
ILO-	CLO-	SUB-CLO-3		0	3	0	0	0	12	0	15		
ILO-	CLO-	SUB-CLO-4		0	2	0	0	0	8	0	10		
ILO-	CLO-	SUB-CLO-5		0	0	0	0	0	0	5	5		
ILO-	CLO-	SUB-CLO-6		0	0	0	0	0	0	5	5		
ILO-	CLO-	SUB-CLO-9		4	0	0	1	0	0	0	5		
ILO-	CLO-	SUB-CLO-10		4	1	0	0	0	0	0	5		
ILO-	CLO-	SUB-CLO-12		0	3	0	2	0	0	0	5		
ILO-	CLO-	SUB-CLO-13		0	0	0	0	5	0	0	5		
ILO-	CLO-	SUB-CLO-14		0	0	0	0	5	0	0	5		
ILO-	CLO-	SUB-CLO-15		0	0	0	0	5	0	0	5		
				12	13	7	3	15	34	20	104		
Course Description	This course is a compulsory course that must be taken by all animal husbandry students. The Animal Health Science course discusses endoparasites, ectoparasites, diseases in chickens and animals caused by bacteria, viruses, parasites, and fungi; reproductive disorders; digestive disorders and metabolic disorders in animals and their prevention, biosecurity, and zoonoses.												

Learning Materials / Subject Matter	1. Introduction to animal health and learning contract 2. Endoparasites 3. Ectoparasites 4. Viral disease in chickens 5. Bacterial diseases in chickens 6. Parasitic diseases in chickens 7. Viral diseases in animals 8. Bacterial diseases in animals 9. Mykal diseases in animals 10. Parasitic diseases in animals 11. Biosecurity 12. Zoonoses 13. Reprodukctive disorders in animals 14. Digestive disorders in animals 15. Metabolic disorders in animals
Reference	**Key Reference**
	1. Kementerian Pertanian. 2014. Manual Penyakit Hewan Mamalia. Jakarta: Direktorat Jenderal Peternakan dan Kesehatan Hewan, Kementerian Pertanian Republik Indonesia. 2. Kementerian Pertanian. 2014. Manual Penyakit Unggas. Jakarta: Direktorat Jenderal Peternakan dan Kesehatan Hewan, Kementerian Pertanian Republik Indonesia. 3. Lestari, V.S., Rahardja, D.P., Sirajuddin, S.N., Saleh, I.M., Prahesti, K.I. 2020. Biosekuriti: Persepsi dan Aplikasinya di Peternakan Rakyat. Makassar: Unhas Press. 4. Suardana, I.W. 2016. Buku Ajar Zoonosis: Penyakit Menular dari Hewan ke Manusia. Yogyakarta: Kanisius. 5. Subronto. 2008. Ilmu Penyakit Ternak Ia (Mamalia): Pemeriksaan Klinis, Sistem Pencernaan Makanan, Sistem Pernafasan, Sistem Perkencingan, Kelenjar Susu. Yogyakarta: Gadjah Mada University Press. 6. Subronto. 2008. Ilmu Penyakit Ternak Ib (Mamalia): Penyakit Kulit (Integumentum), Penyakit-Penyakit Bakterial, Viral, Klamidial, dan Prion. Edisi ketiga. Yogyakarta: Gadjah Mada University Press. 7. Subronto. 2008. Ilmu Penyakit Ternak II (Mamalia): Manajemen Kesehatan Ternak, Parasitisme Gastrointestial, dan Penyakit Metabolisme. Yogyakarta: Gadjah Mada University Press. 8. Tabbu, CR. 2000. Penyakit Ayam dan Penanggulangannya: Volume 1 Penyakit Bakterial, Mikal, dan Viral. Yogyakarta: Kanisius. 9. Tabbu, C.R. 2000. Penyakit Ayam dan Penanggulangannya: Volume 2 Penyakit Asal Parasit, Noninfeksius, dan Etiologi Kompleks. Yogyakarta: Kanisius.
	Additional Reference
	1. Akoso, B.T. 1998. Poultry Health. A Guide for Technical Officers, Extension Workers, and Farmers. Kanisius. Yogyakarta. 2. Baraniah, M.A. 2009. Beware of Dangerous Diseases in Animals and Livestock. Jakarta: Penebar Swadaya.

Teaching Team	Prof. Dr. drh. Ratmawati Malaka, M.Sc., drh. Farida Nur Yuliati, M.Si.
Course requirements	Animal Microbiology

Week	Sub CLO (End ability of each learning stage)	Assesment		Forms and Methods of Learning [time estimate]		Content	Weight of Assesment (%)
		Indicator	Technique & Criteria	Offline	Online		
1	2	3	4	5	6	7	8
1	Able to give an introduction to animal health ()	**Formative:** Discussion **Sumative:** Quiz	**Criteria Formative:** **Criteria Sumative:** Interactive Studying (3) Task Paper Individual (7) is assessed using rubric I011240003. Quiz (0) assessed using rubric I011240004 **Assessment Technique:** None	**Studying:** Small group discussion 1 x 2 x 50		Introduction to health Characteristics of healthy and sick animals	10

2	Able to detect endoparasites	**Formative:** - **Sumative:** Able to detect endoparasites	**Criteria Formative:** **Criteria Sumative:** Case Study (5) is assessed using rubric I011240002 Practical Work/Field Practice (7) **Assessment Technique:** None	**Studying:** cooperative learning, collaborative learning 1 x 2 x 50		Endoparasit	12
3	Able to detect ectoparasites Able to detect ectoparasites ()	**Formative:** - **Sumative:** Able to detect ectoparasites	**Criteria Formative:** **Criteria Sumative:** Case Study (5) is assessed using rubric I011240002 Practical Work/Fiels Practice (7) is assessed using rubric I011240002 **Assessment Technique:** None	**Studying:** Small group discussion 1 x 2 x 50		Ektoparasit	12
4	Able to analyze poultry diseases and their prevention ()	**Formative:** - **Sumative:** Able to identify viral diseases in chickens	**Criteria Formative:** **Criteria Sumative:** Interactive Studying (1) Group Presentations (4) assessed using rubric I011240001 **Assessment Technique:** None	**Studying:** Small group discussion, other methods 1 x 2 x 50		Viral diseases in chickens	5

5	Able to identify bacterial diseases in chickens ()	**Formative:** - **Sumative:** Able to identify bacterial diseases in chickens	**Criteria Formative:** **Criteria Sumative:** Case Study (5) assessed using rubric I011240003 **Assessment Technique:** None	**Studying:** Small group discussion , other methods 1 x 2 x 50		Bacterial diseases in chickens	5
6	Able to identify parasitic diseases in chickens ()	**Formative:** - **Sumative:** Able to identify parasitic diseases in chickens	**Criteria Formative:** **Criteria Sumative:** Case Study (5) assessed using rubric I011240003 **Assessment Technique:** None	**Studying:** Small group discussion , other methods 1 x 2 x 50		Parasitic diseases in chickens	5
7-9	Able to analyze animal diseases and their prevention through biosecurity and vaccination ()	**Formative:** - **Sumative:** Able to identify viral and bacterial diseases in animals	**Criteria Formative:** **Criteria Sumative:** Interactive studying (3) Prcticum/Field Practice (12) assessed using rubric I011240002 **Assessment Technique:** None	**Studying:** Small group discussio n, 3 x 2 x 50		Viral and bacterial diseases in animals.	15
10	Able to diagnose diseases in animals ()	**Formative:** - **Sumative:** Able to diagnose diseases in animals	**Criteria Formative:** **Criteria Sumative:** Quiz (1) are assessed using rubric I011240004	**Studying:** Small group discussion ,		Mical disease in animals.	5

			Group Presentation (4) is assessed using rubric I011240001. **Assessment Technique:** None	1 x 2 x 50			
11	Able to identify parasitic diseases in animals ()	**Formative:** - **Sumative:** Able to identify parasitic diseases in animals	**Criteria Formative:** **Criteria Sumative:** Interactive studying (1) Group Presentation (4) is assessed using rubric I011240001. **Assessment Technique:** None	**Studying:** Small Group Discussion , other methods 1 x 2 x 50		Parasitic diseases in animals	5
12	Able to implement biosecurity ()	**Formative:** - **Sumative:** Able to implement biosecurity	**Criteria Formative:** **Criteria Sumative:** Practicum/Field Practice (8) assessed using rubric I011240002 Interactive studying (2) **Assessment Technique:** None	**Studying:** Small Group Discussion), other methods 1 x 2 x 50		Biosecurity	10
13	Able to express zoonosis ()	**Formative:** -	**Criteria Formative:**	**Studying:** Small		Zoonosis	5

		Sumative: Able to express zoonosis	**Criteria Sumative:** Interactive Studying (3) are assessed using rubric I011240003 Quiz (2) are assessed using rubric I011240004 **Assessment Technique:** None	group discussion 1 x 2 x 50			
14	Able to identify reproductive disorders in livestock ()	**Formative:** - **Sumative:** Able to identify reproductive disorders in animals	**Formative Criteria: Sumative Criteria:** Problem-Based Learning (5) assessed using rubric I011240003 **Assessment Techniques:** None	**Studying:** Small Group Discussion, other methods 1 x 2 x 50”		Reproductive disorders in animals	5
15	Able to identify digestive disorders in livestock ()	**Formative:** - **Sumative:** Able to identify digestive disorders in animals	**Formative Criteria: Sumative Criteria:** Problem-Based Learning (5) assessed using rubric I011240003 **Assessment Techniques:** None	**Studying:** Small Group Discussion, other methods 1 x 2 x 50”		Digestive disorders in animals	5
16	Able to identify metabolic disorders in livestock ()	**Formative:** - **Sumative:** Able to identify metabolic	**Formative Criteria: Sumative Criteria:** Problem-Based Learning (5) **Assessment Techniques:** None	**Studying:** Small Group Discussion, other methods		Metabolic disorders in animals.	5

		disorders in animals		1 x 2 x 50”			
							104

SLO, CLO, and Assessment Method Matrix

ILO / CLO
ILO-3 (P2)
ILO-4 (KU1)
ILO-7 (KK1

Evaluation Type and Assessment Weight

Type	Assessment Weight
Group Presentation	12
Interactive Lecture	13
Practical Work/Field Work	34
Task Paper Individuals	7
Case Study	20
Quizzes	3
Problem-Based Learning	15
Total	104

Assessment and Evaluation of Student Achievement of CLO

ILOs that are imposed on the course	CLO	SUB CLO	Form Assessment+							Weight	Value	Student Score
			Formative	Summative								
				Group Presentation	Interactive Lecture	Individual Paper	Quiz	Problem Base Learning	Practicum/Field Practice	Case Study			
ILO-	CLO-	SUB-CLO-1		0	3	7	0	0	0	0	10		
ILO-	CLO-	SUB-CLO-2		0	0	0	0	0	7	5	12		
ILO-	CLO-	SUB-CLO-2		4	1	0	0	0	0	0	5		
ILO-	CLO-	SUB-CLO-3		0	0	0	0	0	7	5	12		
ILO-	CLO-	SUB-CLO-3		0	3	0	0	0	12	0	15		
ILO-	CLO-	SUB-CLO-4		0	2	0	0	0	8	0	10		
ILO-	CLO-	SUB-CLO-5		0	0	0	0	0	0	5	5		
ILO-	CLO-	SUB-CLO-6		0	0	0	0	0	0	5	5		
ILO-	CLO-	SUB-CLO-9		4	0	0	1	0	0	0	5		
ILO-	CLO-	SUB-CLO-10		4	1	0	0	0	0	0	5		
ILO-	CLO-	SUB-CLO-12		0	3	0	2	0	0	0	5		
ILO-	CLO-	SUB-CLO-13		0	0	0	0	5	0	0	5		
ILO-	CLO-	SUB-CLO-14		0	0	0	0	5	0	0	5		
ILO-	CLO-	SUB-CLO-15		0	0	0	0	5	0	0	5		
				12	13	7	3	15	34	20	104		

	HASANUDDIN UNIVERSITY **FACULTY OF ANIMAL SCIENCE** **BACHELOR PROGRAMME IN ANIMAL HUSBANDRY**

STUDENT STRUCTURED ASSIGNMENT PLAN

Course	Ilmu Kesehatan Ternak				
Code	23I01120403	**Credit Points**	3	**Semester**	3 (tree)
Developer Lecturer	drh. Farida Nur Yuliati, M.Si				

Task Form	**Task Time**
Documents/Magazines	2 Week

Task Title

Penyakit Viral dan Bakterial pada Hewan

Course Learning Outcomes

Sub-CPMK-2 Mampu menganalisis penyakit pada hewan dan pencegahannya dengan biosecurity dan vaksinasi

Task Description

Tugas mahasiswa adalah tugas kelompok membuat Tugas Paper ”Penyakit Viral dan Bakterial pada Hewan”. Penyusunan paper mengikuti prosedur berikut:

1) Each group chooses 1 of the sub-topics for 1 group
2) Discuss among the group members to identify the process stages for each of the selected sub-topics. Information related to the selected sub-topic can be obtained from textbooks and journals.
3) Create a paper with the following systematics:
   I. Introduction
   II. Discussion
   III. Conclusion
   IV. Literature
4) Group presentatio

Assignment Method

1. Conducted in groups using the Small Group Discussion (SGD) learning method.

Form and Format of Output

a. Object of Cultivation: Penyakit Viral dan Bakterial

b. Form of Output: Paper

Indicators, Criteria and Assessment Weight

Indicators:

1. Systematics : 10%
2. Accuracy of analysis : 25%
3. Depth of material : 30%
4. Novelty and reputation of library materials : 10%
5. Team cohesiveness : 10%
6. Mastery of the material : 15%

Implementation Schedule

2 week	

Other

-

Reference List

1. Kementerian Pertanian. 2014. Manual Penyakit Hewan Mamalia. Jakarta: Direktorat Jenderal Peternakan dan Kesehatan Hewan, Kementerian Pertanian Republik Indonesia.
2. Kementerian Pertanian. 2014. Manual Penyakit Unggas. Jakarta: Direktorat Jenderal Peternakan dan Kesehatan Hewan, Kementerian Pertanian Republik Indonesia.
3. Lestari, V.S., Rahardja, D.P., Sirajuddin, S.N., Saleh, I.M., Prahesti, K.I. 2020. Biosekuriti: Persepsi dan Aplikasinya di Peternakan Rakyat. Makassar: Unhas Press.
4. Suardana, I.W. 2016. Buku Ajar Zoonosis: Penyakit Menular dari Hewan ke Manusia. Yogyakarta: Kanisius.
5. Subronto. 2008. Ilmu Penyakit Ternak Ia (Mamalia): Pemeriksaan Klinis, Sistem Pencernaan Makanan, Sistem Pernafasan, Sistem Perkencingan, Kelenjar Susu. Yogyakarta: Gadjah Mada University Press.
6. Subronto. 2008. Ilmu Penyakit Ternak Ib (Mamalia): Penyakit Kulit (Integumentum), Penyakit-Penyakit Bakterial, Viral, Klamidial, dan Prion. Edisi ketiga. Yogyakarta: Gadjah Mada University Press.
7. Subronto. 2008. Ilmu Penyakit Ternak II (Mamalia): Manajemen Kesehatan Ternak, Parasitisme Gastrointestial, dan Penyakit Metabolisme. Yogyakarta: Gadjah Mada University Press.
8. Tabbu, C.R. 2000. Penyakit Ayam dan Penanggulangannya: Volume 1 Penyakit Bakterial, Mikal, dan Viral. Yogyakarta: Kanisius.
9. Tabbu, C.R. 2000. Penyakit Ayam dan Penanggulangannya: Volume 2 Penyakit Asal Parasit, Noninfeksius, dan Etiologi Kompleks. Yogyakarta: Kanisius.
10. Akoso, B.T. 1998. Kesehatan Unggas. Panduan Bagi Petugas Teknis, Penyuluh dan Peternak. Kanisius. Yogyakarta.
11. Baraniah, M.A. 2009. Mewaspadai Penyakit Berbahaya pada Hewan dan Ternak. Jakarta: Penebar Swadaya.

DEFINITION OF 1 CREDIT IN THE FORM OF LEARNING			
A	Lecture, Reception, Tutorial		
	Face to Face	Structured Assignment	Independent Learning
	50 minutes/week/semester	60 minutes/week/semester	60 minutes/week/semester
B	Seminars or other similar forms of learning		
	Face to face	Self-study	
	100 minutes/week/semester	70 minutes/week/semester	
C	Practicum, studio practice, workshop practice, field practice, research, community service, and/or other equivalent forms of learning		
	170 minutes/week/semester		

No	Metode Pembelajaran Mahasiswa	Kode
1	Small Group Discussion	SGD
2	Role-Play & Simulation	RPS
3	Discovery Learning	DL
4	Self-Directed Learning	SDL
5	Cooperative Learning	CoL
6	Collaborative Learning	CbL
7	Contextual Learning	CtL
8	Project Based Learning	PjBL
9	Problem Based Learning & Inquiry	PBL
10	Atau metode pembelajaran lain, yang dapat secara efektif memfasilitasi pemenuhan capaian pembelajaran lulusan.	