COURSE CONTRACT
VETERINARY PARASITIC DISEASE LECTURE
VETERINARY MEDICINE EDUCATION PROGRAM/S-1

1.	**Course**	: Veterinary Parasitic Disease
2.	**Course Code**	: KHD-205
3.	**Study Load**	: 3 SKS (2-1)
4.	**Semester**	: IV
5.	**Department/Study Program**	: Bachelor of Veterinary Medicine
6.	**Requirement**	: Veterinary Parasitology
7.	**Course Description**	:The lecture of parasitic diseases is an advance lecture of Veterinary Parasitology. This lecture consist of the importance of parasitic diseases in animal, the disadvantages, pathogenesis, clinical sign, diagnosis and disease controlling effort which caused by Protozoa, Helmint and Arthropoda, also the importance of ectoparasite as vector. This lecture provides knowledge of the incident of parasitic diseases, especially in Indonesia, also in other country which related, so that the learning outcomes are easy to understand and applicable in farm. Therefore the general boundaries of lectures can be seen in maerial organization. Practice is the applied lecture material. Techniques that performed for laboratory diagnostics are adjusted with techniques that applied in the real work field, so that the techniques can be use in work place.
8.	**Person in Charge**	: Muchammad Yunus, drh., M.Kes., Ph.D
9.	**Lecturers**	1. Prof. Dr. Setiawan Koesdarto, drh, MSc 2. Prof. Dr. Nunuk Diyah R.L., drh, M.S. 3. Dr. Endang Suprihati.,drh.,M.S. 4. Dr. Poedji Hastutiek., M.Si., drh 5. Prof. Dr. Lucia Tri Suwanti, drh, MP. 6. Dr.Mufasirin., drh, M.Si. 7. Agus Sunarso, drh, M.Sc. 8. Dr. Kusnoto, drh., M.Si.
10.	**Lecture Date/ Time/ Room**	A and B Class : Wednesday 07.00 – 08.50 (RK. 4A dan 4B) C Class : Thursday 07.00 – 08.50 (RK. Avian) D Class : Monday 09.00 – 10.50 (RK. 3B) E Class (small class) : Monday 09.00 – 10.50 (RK. Klinik)
11.	***Soft Skills* Component**	*1. Self-motivation/initiative* *2. Work ethic/dependability* *3. Critical thinking* *4. Questioning skills*

5. Academic/learning skills
6. *Teaching/training skills*

12. Achievement of Graduate Learning : LO 2 Analyze diagnosis of animal diseases caused by parasite on physic and laboratory examination in order to treat correctly (Give provision, guideline and basic for veterinary medicine prospective graduate in order to reduce the incident of parasitic disease and eradicate parasitic disease in farm animal, pet and wild animal).

13. Achievement of Lecture : Students able to determine parasitic disease in animals that caused by helmin, protozoa, arthropoda andthe importance of ectoparasite as vector based on pathogenesis, clinical sign, changes in anatomy pathologic and laboratorium diagnostic, also the controlling program (prevention and medication) in animals (farm animal, pet and wild animal) which are zoonoses or non zoonoses.

14. Sub Lecture Achievement :

After participating in the lectures of Parasitic diseases, students will be able to explain and identify parasite which causing diseases in farm animal, avian and pet. The detailed information about the lectures as follows :

1. Student can explain and identify flies and mosquitos as vector and agent for diseases in farm animals and pets.
2. Student can explain and identify lice and flea infestation as agent for diseases in farm animals and pets.
3. Student can explain and identify mite infestation as agent and vector for diseases in farm animals and pets.
4. Student can explain the basic of controlling insects as agent and vector for diseases in animals
5. Student can explain and identify protozoa disease in animals, which are theleria dan anaplasma based on pathogenesis, clinical sign and the disadvantages
6. Student can explain and identifyprotozoa disease in animals, which are surra disease and babesiosis based on pathogenesis, clinical sign and the disadvantages
7. Student can explain and identify protozoa disease in animals, which are malaria disease, leucocytozoonosis and hemoproteosisbased on pathogenesis, clinical sign and the disadvantages
8. Student can explain and identify protozoa disease in animals, which are coccidiosis, amoebisis, balantidiosis, and avian trichomoniasis based on pathogenesis, clinical sign and the disadvantages
9. Student can explain and identify protozoa disease in animals, which are toxoplasmosis and trichomoniasis based on pathogenesis, clinical sign and the disadvantages
10. Student can explain and identify fasciolosis, paramphistomosis, schistosomiasis and paragonomiasis based on pathogenesis, clinical sign and the disadvantages from those helminth
11. Student can explain and identify Monieziasis, Cysticercosis, Dipylidiasis, Diphyllobthriasis dan Taeniasis based on pathogenesis, clinical sign and the disadvantages from those helminth
12. Student can explain and identify Haemonchiasis, Mecistocirrusis, nematodosis based on pathogenesis, clinical sign and the disadvantages from those helminth
13. Student can explain and identify ascariasis, heterakiasis dan ancylostomiasis based on pathogenesis, clinical sign and the disadvantages from those helminth

14. Student can explain and identify nematodosis on cattle's skin and eyeworm infestation on pathogenesis, clinical sign and the disadvantages from those helminth

15. Lecture Benefit

Parasitic disease (Protozoa, Helmin dan Arthropoda) is often occur in animals, which are big and small farm animals, avians and pets. The economical disadvantages for breeder that occurare huge and the diseases might also zoonotic for human. The determination of parasitic or parasitosis in animals needs a complex understanding which include pathogenesis, changes in anatomy pathologic, clinical sign, diagnostic method and environment factor. This lecture is offered to give students the knowledge of parasitic diseases. This knowledge can be used as the basic for diseases controlling including prevention and medication.

16. Strategy of Lecture

The form of most of the study material is lecture. In the end of lecture, time were given in order to discuss about real case of familiar diseases incident, especially those which happened in farm. The assignment about strategic diseases will be discussed in the next lecture.

Before the lecture begins, should be discussed about the previous assignment. The discussion must be presented in lecture cooperatively. In every end of lecture, students were given time to do tutorial meeting, which scheduled before, in order to get more knowledge that need to be discussed with lecturer.

Practice method : pretest and briefing will be conducted before the practice time. Practice held individually, based on group distribution, by each lecturer mentor. Preparation demo will be given to explain the practice clearly. Discussion held in practice time.

17. Material or book for lecture

1. Soulsby, E.J.L. 1986. Helminth, Arthropods, and Protozoa of Domesticated Animals. 7th ed. Bailliere Tindall. London
2. Sasmita, R., P. Hastutiek, M. Yunus., A. Sunarso 2010. Bahan Ajar Entomologi Veteriner (S1). Fakultas Kedokteran Hewan, Universitas Airlangga. Surabaya.
3. Sasmita, R., P. Hastutiek, M. Yunus., A. Sunarso 2010. Bahan Ajar Ilmu Penyakit Arthropoda Veteriner (S1). Fakultas Kedokteran Hewan, Universitas Airlangga. Surabaya.
4. Suwanti, L.T., N.D.R. Lastuti, E. Suprihati. 2006 Buku Ajar Protozoologi Veteriner. Fakultas Kedokteran Hewan, Universitas Airlangga. Surabaya.
5. Mufasirin, N.D.R. Lastuti, E. Suprihati dan L.T. Suwanti. 2000. Buku Ajar Ilmu Penyakit Protozoa. Fakultas Kedokteran Hewan, Universitas Airlangga. Surabaya.
6. Sri Subekti, B.S., S. Koesdarto, R. Sri Mumpuni, H. Puspitawati dan Kusnoto. 2005. Buku Ajar Helmintologi Veteriner. Fakultas Kedokteran Hewan, Universitas Airlangga. Surabaya.
7. Setiawan Koesdarto, S. Subekti, B.S., Sri Mumpuni, H. Puspitawati dan Kusnoto. 2007. Buku Ajar Ilmu Penyakit Trematoda dan Cestoda. Fakultas Kedokteran Hewan, Universitas Airlangga. Surabaya.
8. Setiawan Koesdarto, S. Subekti, B.S.,. Sri Mumpuni, H. Puspitawati dan Kusnoto. 2007. Buku Ajar Ilmu Penyakit Nematoda. Fakultas Kedokteran Hewan, Universitas Airlangga. Surabaya.

18. Lecture Assignment

Individual Task :

Week 1 – 12 :

Summarizing each lecture topic before the class begin. The source of summary may based on book (Sasmita, R., P. Hastutiek, M. Yunus., A. Sunarso 2010. Bahan Ajar Ilmu Penyakit Arthropoda Veteriner (S1). Fakultas Kedokteran Hewan, Universitas Airlangga. Surabaya).

Group Task :

Each class is separated to some groups, consist of eight students (minimum)

19. Assessment Criteria

Final Score from lecture will be determined from the summarize of overall score, from lecturers. The example of score load (quiz), (assignment), (structured assignment), (practiceexam), (softskill), (UTS), (UAS) are 1,5 : 1,5 : 2 : 1 : 2 : 3.

Example :

Student X doingFistekpro 1 exam, the score for each exam as follows :

Exam infix/quiz = 70
UTS = 70
Assignment = 65
UAS = 75
Practice exam = 60
Softskill = 80
Final score (raw score) :

$$\frac{(70x1,5) + (65x1,5) + (60 \times 2) + (70 \times 2) + (75 \times 3) + 80}{1,5 + 1,5 + 2 + 2 + 3 + 1}$$

$$\frac{767,5}{11} = 69,77$$

Processing the Final Score(raw score/numeric) is the Quality Score for grading in 7 grade.From the final score (raw score), followed by processing mean score (X). Score grouping use BENCHMARK SCORING/PENILAIAN ACUAN PATOKAN (PAP) as follows :

Raw Score	Alphabetical Score
≥ 75	A
70 – 74.9	AB
65 – 69.9	B
60 – 64.9	BC
55 – 59.9	C
40 – 54.9	D
< 40	E

Score Presentation from score processing above are given 7 grade, as follows :

Alphabetical Score	Quality Score
A	4

AB	3,5
B	3
BC	2,5
C	2
D	1
E	0

20. Others

- Students are allowed to participate the end semester exam (UAS) if the attendance of overall lectures is 75% (attendance minimum 9x for new students) and 50% attendance for make up students.
- Students that did not participate in quiz, mid semester exam (UTS), end semester exam (UAS) must complete the absence permission, including doctor's note and (maximum a week) after quiz, UTS, UAS must participate in continuation exam.
- Structured assignment and practice report collecting should be done maximum a week after assignment/practice date given.
- Question types: for quiz : essay
  For UTS and UAS: multiple choice

PARASITIC DISEASE LECTURE SCHECULE
STUDY PROGRAM VETERINARY MEDICINE
FACULTY OF VETERINARY MEDICINE UNIVERSITAS AIRLANGGA
ACADEMIC YEAR 2017/2018
(A Class)

Day **: WEDNESDAY**
Time **: 07.00-08.50 WIB**
Place **: RK 4A**
Lecturer **: 1. Dr. Poedji Hastutiek., drh.,M.Si**
2. Prof. Dr. Lucia Tri Suwanti, drh, M.P.
3. Dr. Kusnoto., M.Si, drh
SKS **: 3 sks**

No	Date	Topic	SubTopic	Lecturer
1	1 Maret 2018	The importance of parasitic disease in animals Introduction. The role of flies and mosquitos as vector and agent for diseases in farm animals	The importance of parasitic disease in animals Introduction. The role of flies as vector and agent for diseases in farm animals. The role of mosquitos as vector and agent for diseases in farm animals.	1
2	8 Maret 2018	Lice, fleainfestation in pets and farm animals	Lice infestation in farm animals and pets Flea infestationin farm animals and pets	1
3	15 Maret 2018	Mite and tick infestationin farm animals and pets	Scabiosis in farm animals and pets Demodecosis in farm animals and pets Chalk leg in avian Tick infestationin farm animals and pets	1
4	22 Maret 2018	The basic of insect controlling **Quiz Arthropoda disease**	The basic of insect controlling **Quiz Arthropoda disease**	1
5	29 Maret 2018	Trematodosis.	Fasciolosis Paramphistomosis Schistosomiasis Paragonomiasis	3
6	5 April 2018	Cestodosis in avian	Monieziasis Cysticercosis Dipylidiasis Diphyllobthriasis Taeniasisin avian	3
7	12 April 2018	Nematodosis disease. Ascariasis in farm animal .	Haemonchiasis Mecistocirrusis Nematodosis in small intestine ruminant Nematodosis in pig pulmo. Nematodosis in colon and caecum ruminant (trichuriasis, oesophagustomiasis, Chabertiasis)	3

			Ascariasis in pig, cattle, dog, dan horse	
8	**17 -28 April 2018**	**Mid Semester Exam**		**1,2&3**
9	3 Mei 2018	Ascaridiasis. Heterakiasis. Ancylostomiasis **Quiz helminth disease**	Ascaridiasis Heterakiasis Ancylostomiasis,	3
10	10 Mei 2018	Nematodosis in cattle skin, eye worm	Nematodosis in cattle skin, Eye worm infection	3
11	17 Mei 2018	Blood protozoa disease in mammal	Surra disease Babesiosis	2
12	24 Mei 2018	Blood protozoa disease in mammal	Theileriasis Anaplasmosis	2
13	31 Mei 2018	Blood protozoa disease in avian	Avian malaria Leucocytozoonosis Haemoproteosis	2
14	7 Juni 2018	Protozoa disease in gastrointestinal tract	Coccidiosisin farm animal Amoebiasisin farm animal Balantidiasis in farm animal Avian Trichomoniasis.	2
15	14 Juni 2018	Protozoa disease in tissues. Quis Protozoa Disease.	Toxoplasmosis in cattle. Trichomoniasis in cattle. Quis Protozoa Disease.	2
16	**19-Juni 12 Juli 2018**	**End Semester Exam**		**1,2&3**

Notes :
1. Quiz will be held on the last 50 minutes of lecture
2. The topic for individual assignment inside teach book should be submitted a day after lecture

Surabaya, April 21st 2018
Person in Charge

Validated by :
Head of Veterinary Parasitology Department,

Muchammad Yunus, drh., M.Kes., Ph.D
NIP. 196612291993031001

Dr. Poedji Hastutiek, Drh., M.Si.
NIP. 196103111988032003

PARASITIC DISEASE LECTURE SCHECULE
STUDY PROGRAM VETERINARY MEDICINE
FACULTY OF VETERINARY MEDICINE UNIVERSITAS AIRLANGGA
ACADEMIC YEAR 2017/2018
(B Class)

Day : WEDNESDAY
Time : 07.00-08.50 WIB
Place : RK 4B
Lecturer : 1. Dr. Endang Suprihati.,drh.,M.S.
2. Muchammad Yunus, drh., M.Kes., Ph.D.
SKS : 3 sks

No	Date	Topic	SubTopic	Lecturer
1	1 Maret 2018	The importance of parasitic disease in animals Introduction. The role of flies and mosquitos as vector and agent for diseases in farm animals	The importance of parasitic disease in animals Introduction. The role of flies as vector and agent for diseases in farm animals. The role of mosquitos as vector and agent for diseases in farm animals.	3
2	8 Maret 2018	Lice, fleainfestation in pets and farm animals	Lice infestation in farm animals and pets Flea infestationin farm animals and pets	3
3	15 Maret 2018	Mite and tick infestationin farm animals and pets	Scabiosis in farm animals and pets Demodecosis in farm animals and pets Chalk leg in avian Tick infestationin farm animals and pets	3
4	22 Maret 2018	The basic of insect controlling **Quiz Arthropoda disease**	The basic of insect controlling **Quiz Arthropoda disease**	3
5	29 Maret 2018	Trematodosis.	Fasciolosis Paramphistomosis Schistosomiasis Paragonomiasis	1
6	5 April 2018	Cestodosisin avian	Monieziasis Cysticercosis Dipylidiasis Diphyllobthriasis Taeniasisin avian	1
7	12 April 2018	Nematodosis disease. Ascariasis in farm animal .	Haemonchiasis Mecistocirrusis Nematodosis in small intestine ruminant Nematodosis in pig pulmo. Nematodosis in colon and caecum ruminant (trichuriasis, oesophagustomiasis, Chabertiasis) Ascariasis in pig, cattle, dog, dan horse	1
8	**17 -28 April 2018**	**Mid Semester Exam**		**1,2&3**
9	3 Mei	Ascaridiasis.	Ascaridiasis	1

	2018	Heterakiasis. Ancylostomiasis **Quiz helminth disease**	Heterakiasis Ancylostomiasis,	
10	10 Mei 2018	Nematodosis in cattle skin, eye worm	Nematodosis in cattle skin, Eye worm infection	1
11	17 Mei 2018	Blood protozoa disease in mammal	Surra disease Babesiosis	2
12	24 Mei 2018	Blood protozoa disease in mammal	Theileriasis Anaplasmosis	2
13	31 Mei 2018	Blood protozoa disease in avian	Avian malaria Leucocytozoonosis Haemoproteosis	2
14	7 Juni 2018	Protozoa disease in gastrointestinal tract	Coccidiosisin farm animal Amoebiasisin farm animal Balantidiasis in farm animal Avian Trichomoniasis.	2
15	14 Juni 2018	Protozoa disease in tissues. Quis Protozoa Disease.	Toxoplasmosis in cattle. Trichomoniasis in cattle. Quis Protozoa Disease.	2
16	**19-Juni 12 Juli 2018**	**End Semester Exam**		**1,2&3**

Notes :
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2. The topic for individual assignment inside teach book should be submitted a day after lecture

Surabaya, April 21st 2018
Person in Charge

Validated by :
Head of Veterinary Parasitology Department,

Muchammad Yunus, drh., M.Kes., Ph.D
NIP. 196612291993031001

Dr. Poedji Hastutiek, Drh., M.Si.
NIP. 196103111988032003

PARASITIC DISEASE LECTURE SCHECULE
STUDY PROGRAM VETERINARY MEDICINE
FACULTY OF VETERINARY MEDICINE UNIVERSITAS AIRLANGGA
ACADEMIC YEAR 2017/2018
(C Class)

Day **: THURSDAY**
Time **: 07.00-08.50 WIB**
Place **: RK. Avian**
Lecturer **: 1. Prof. Dr Setiawan Koesdarto, drh, M.Sc**
2. Prof. Dr. Nunuk Dyah RL, drh.,M.S
3. Dr. Poedji Hastutiek., drh.,M.Si
SKS **: 3 sks**

No	Date	Topic	SubTopic	Lecturer
1	2 Maret 2018	The importance of parasitic disease in animals Introduction. The role of flies and mosquitos as vector and agent for diseases in farm animals	The importance of parasitic disease in animals Introduction. The role of flies as vector and agent for diseases in farm animals. The role of mosquitos as vector and agent for diseases in farm animals.	3
2	9 Maret 2018	Lice, fleainfestation in pets and farm animals	Lice infestation in farm animals and pets Flea infestationin farm animals and pets	3
3	16 Maret 2018	Mite and tick infestationin farm animals and pets	Scabiosis in farm animals and pets Demodecosis in farm animals and pets Chalk leg in avian Tick infestationin farm animals and pets	3
4	23 Maret 2018	The basic of insect controlling **Quiz Arthropoda disease**	The basic of insect controlling **Quiz Arthropoda disease**	3
5	30 Maret 2018	Trematodosis.	Fasciolosis Paramphistomosis Schistosomiasis Paragonomiasis	1
6	6 April 2018	Cestodosis in avian	Monieziasis Cysticercosis Dipylidiasis Diphyllobthriasis Taeniasisin avian	1
7	13 April 2018	Nematodosis disease. Ascariasis in farm animal .	Haemonchiasis Mecistocirrusis Nematodosis in small intestine ruminant Nematodosis in pig pulmo. Nematodosis in colon and caecum ruminant (trichuriasis, oesophagustomiasis, Chabertiasis) Ascariasis in pig, cattle, dog, dan horse	1
8	**17 -28 April**	**Mid Semester Exam**		**1,2&3**

	2018			
9	4 Mei 2018	Ascaridiasis. Heterakiasis. Ancylostomiasis **Quiz helminth disease**	Ascaridiasis Heterakiasis Ancylostomiasis,	1
10	11 Mei 2018 *	Nematodosis in cattle skin, eye worm	Nematodosis in cattle skin, Eye worm infection	1
11	18 Mei 2018 *	Blood protozoa disease in mammal	Surra disease Babesiosis	2
12	25 Mei 2018*	Blood protozoa disease in mammal	Theileriasis Anaplasmosis	2
13	1 Juni 2018 *	Blood protozoa disease in avian	Avian malaria Leucocytozoonosis Haemoproteosis	2
14	8 Juni 2018 *	Protozoa disease in gastrointestinal tract	Coccidiosisin farm animal Amoebiasisin farm animal Balantidiasis in farm animal Avian Trichomoniasis.	2
15	15 Juni 2018 *	Protozoa disease in tissues. Quis Protozoa Disease.	Toxoplasmosis in cattle. Trichomoniasis in cattle. Quis Protozoa Disease.	2
16	**19-Juni 12 Juli 2018**	**End Semester Exam**		**1,2&3**

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2. The topic for individual assignment inside teach book should be submitted a day after lecture

Surabaya, April 21st 2018
Person in Charge

Validated by :
Head of Veterinary Parasitology Department,

Muchammad Yunus, drh., M.Kes., Ph.D
NIP. 196612291993031001

Dr. Poedji Hastutiek, Drh., M.Si.
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FACULTY OF VETERINARY MEDICINE UNIVERSITAS AIRLANGGA
ACADEMIC YEAR 2017/2018
(D Class)

Day : MONDAY
Time : 09.00-10.50 WIB
Place : RK 3B
Lecturer : 1. Dr. Mufasirin, drh., M.Si
2. Agus Sunarso, drh., M.Sc.
SKS : 3 sks

No	Date	Topic	SubTopic	Lecturer
1	6 Maret 2018	The importance of parasitic disease in animals Introduction. The role of flies and mosquitos as vector and agent for diseases in farm animals	The importance of parasitic disease in animals Introduction. The role of flies as vector and agent for diseases in farm animals. The role of mosquitos as vector and agent for diseases in farm animals.	3
2	13 Maret 2018	Lice, fleainfestation in pets and farm animals	Lice infestation in farm animals and pets Flea infestationin farm animals and pets	3
3	20 Maret 2018	Mite and tick infestationin farm animals and pets	Scabiosis in farm animals and pets Demodecosis in farm animals and pets Chalk leg in avian Tick infestationin farm animals and pets	3
4	27 Maret 2018	The basic of insect controlling **Quiz Arthropoda disease**	The basic of insect controlling **Quiz Arthropoda disease**	3
5	3April 2018	Trematodosis.	Fasciolosis Paramphistomosis Schistosomiasis Paragonomiasis	1
6	10 April 2018	Cestodosis in avian	Monieziasis Cysticercosis Dipylidiasis Diphyllobthriasis Taeniasisin avian	1
7	1 Mei 2018 *	Nematodosis disease. Ascariasis in farm animal .	Haemonchiasis Mecistocirrusis Nematodosis in small intestine ruminant Nematodosis in pig pulmo. Nematodosis in colon and caecum ruminant (trichuriasis, oesophagustomiasis, Chabertiasis) Ascariasis in pig, cattle, dog, dan horse	1
8	**17 -28 April 2018**	**Mid Semester Exam**		**1,2&3**
9	8 Mei	Ascaridiasis.	Ascaridiasis	1

	2018	Heterakiasis. Ancylostomiasis **Quiz helminth disease**	Heterakiasis Ancylostomiasis,	
10	15 Mei 2018	Nematodosis in cattle skin, eye worm	Nematodosis in cattle skin, Eye worm infection	1
11	22 Mei 2018	Blood protozoa disease in mammal	Surra disease Babesiosis	2
12	29 Mei 2018	Blood protozoa disease in mammal	Theileriasis Anaplasmosis	2
13	5 Juni 2018	Blood protozoa disease in avian	Avian malaria Leucocytozoonosis Haemoproteosis	2
14	12 Juni 2018	Protozoa disease in gastrointestinal tract	Coccidiosisin farm animal Amoebiasisin farm animal Balantidiasis in farm animal Avian Trichomoniasis.	2
15	19 Juni 2018 *	Protozoa disease in tissues. Quis Protozoa Disease.	Toxoplasmosis in cattle. Trichomoniasis in cattle. Quis Protozoa Disease.	2
16	**19-Juni 12 Juli 2018**	**End Semester Exam**		**1,2&3**

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Surabaya, April 21st 2018
Person in Charge

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Dr. Poedji Hastutiek, Drh., M.Si.
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FACULTY OF VETERINARY MEDICINE UNIVERSITAS AIRLANGGA
ACADEMIC YEAR 2017/2018
(E Class)

Day **: MONDAY**
Time **: 09.00-10.50 WIB**
Place **: RK Klinik.**
Lecturer **: 1. Prof. Dr. Setiawan Koesdarto, drh, MSc**
2. Prof. Dr. Nunuk Diyah R.L., drh, M.S.
3. Muchammad Yunus, drh, M.Kes., Ph.D
SKS **: 3 sks**

No	Date	Topic	SubTopic	Lecturer
1	6 March 2018	The importance of parasitic disease in animals Introduction. The role of flies and mosquitos as vector and agent for diseases in farm animals	The importance of parasitic disease in animals Introduction. The role of flies as vector and agent for diseases in farm animals. The role of mosquitos as vector and agent for diseases in farm animals.	3
2	13 March 2018	Lice, fleainfestation in pets and farm animals	Lice infestation in farm animals and pets Flea infestationin farm animals and pets	3
3	20 March 2018	Mite and tick infestationin farm animals and pets	Scabiosis in farm animals and pets Demodecosis in farm animals and pets Chalk leg in avian Tick infestationin farm animals and pets	3
4	27 March 2018	The basic of insect controlling **Quiz Arthropoda disease**	The basic of insect controlling **Quiz Arthropoda disease**	3
5	3April 2018	Trematodosis.	Fasciolosis Paramphistomosis Schistosomiasis Paragonomiasis	1
6	10 April 2018	Cestodosisin avian	Monieziasis Cysticercosis Dipylidiasis Diphyllobthriasis Taeniasisin avian	1
7	1 May 2018 *	Nematodosis disease. Ascariasis in farm animal .	Haemonchiasis Mecistocirrusis Nematodosis in small intestine ruminant Nematodosis in pig pulmo. Nematodosis in colon and caecum ruminant (trichuriasis, oesophagustomiasis, Chabertiasis) Ascariasis in pig, cattle, dog, dan horse	1

8	**17 -28 April 2018**	**Mid Semester Exam**		**1,2&3**
9	8 May 2018	Ascaridiasis. Heterakiasis. Ancylostomiasis **Quiz helminth disease**	Ascaridiasis Heterakiasis Ancylostomiasis,	1
10	15 May 2018	Nematodosis in cattle skin, eye worm	Nematodosis in cattle skin, Eye worm infection	1
11	22 May 2018	Blood protozoa disease in mammal	Surra disease Babesiosis	2
12	29 May 2018	Blood protozoa disease in mammal	Theileriasis Anaplasmosis	2
13	5 Juni 2018	Blood protozoa disease in avian	Avian malaria Leucocytozoonosis Haemoproteosis	2
14	12 Juni 2018	Protozoa disease in gastrointestinal tract	Coccidiosisin farm animal Amoebiasisin farm animal Balantidiasis in farm animal Avian Trichomoniasis.	2
15	19 Juni 2018 *	Protozoa disease in tissues. Quis Protozoa Disease.	Toxoplasmosis in cattle. Trichomoniasis in cattle. Quis Protozoa Disease.	2
16	**19-Juni 12 July 2018**	**End Semester Exam**		**1,2&3**

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Surabaya, April21st2018
Person in Charge

Validated by :
Head of Veterinary Parasitology Department,

Muchammad Yunus, drh., M.Kes., Ph.D
NIP. 196612291993031001

Dr. Poedji Hastutiek, Drh., M.Si.
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