

CONTRACT LECTURES

COURSES-PRACTICAL OF HISTOLOGY

VETERINARY MEDICINE EDUCATION PROGRAM

1. **Courses** : PRACTICAL OF HISTOLOGY
2. **Courses code** : BIZ 108
3. **Credits** : 2 SKS
4. **Semester** : II –EVEN
5. **Study Program** : VETERINARY MEDICINE S-1
6. **Prerequisites** : -
7. **Course Description**

Veterinary histology course I in a face to face discussion about : Introduction and Cells, Intercellular Substances and Connective Tissue, Muscle, Epithelial Tissue, Blood, Peripheral Nerves and Central Nerves, Blood Vessels and Cardiac, Cartilage Tissue and Bone, Skin and Adnexa, Lymphatic Organs, Gastrointestinal Tract, Hepar and Gallbladder, Digestive Glands, Male Reproductive System, Female Reproductive System, Urinary System, Respiratory System, Endocrine System, Eye, and Ear. At the end of the face-to-face session, mastery of the material was evaluated by a practical examination microscopically.

8. **Person in charge** : Dr. Eka Pramyrtha Hestianah drh., MKes PA Vet(K)
9. **Caregiver course lecturer**

1. Chairul Anwar drh., MS., PA.Vet(K)
2. Suryo Kuncorojakti, drh., M.Vet.
3. Lita Rakhma Yustinasari, drh., M.Vet.
4. Dr. Widjiati, M.Si., drh.
5. Dr. Bambang Poernomo, M.Si., drh.
6. Dr. Epy M. Luqman, M.Kes., drh.
7. Dr. Maslichah Mafruchati, M.Si., drh.

10. **Meeting/hour/room** : Praktikum dilaksanakan setiap hari Senin/pukul 11.00-17.00/Ruangan dibagi menjadi dua menurut metode pembelajaran sebagai berikut:

- I. Pratical at Microscopic Central Laboratory
 - Class A : 11.00 -12.30
 - Class B : 12.30 -14.00
 - Class C/D : 14.00 -15.30
 - Class D/E : 15.30 -17.00

- II. Tutorial at 3 B room
 - Class D/E : 11.00 -12.30
 - Class A : 12.30 -14.00
 - Class B : 14.00 -15.30
 - Class C/D : 15.30 -17.00

11. **Atribut Soft Skills** : Honesty, communication, discipline

12. Achievement of Graduate Learning

LO 1: Apply basic knowledge and technology of anatomy, histology, physiology, biochemistry and embryology to construct basic clinical improvement

13. Achievement of Learning Courses

: Able to explain and identify the structure of the main constituent of the animal body tissue microscopically properly

14. Sub Learning outcomes:

After follow-face activities Veterinary Histology I the students be able to explain and identify the structure of the main constituent of the animal body tissue microscopically properly. Specifically, it can be described as follows:

1. Students are able to explain the technique of making histological preparations and staining, General Structure of Cells (nucleus, cytoplasm, core degeneration, mitosis), and Organelles
2. Students are able to explain and identify Intercellular substance and Connective tissue
3. Students are able to explain and identify Muscle and Epithelial Tissue
4. Students are able to explain and identify Blood peripheral, Blood vessel and Cardiac
5. Students are able to explain and identify Cartilage tissue and Bone
6. Students are able to explain and identify Peripheral nerve and Central Nerve
7. Students are able to explain and identify Skin and adnexa, lymphatic organ
8. Students are able to explain and identify Oesophagus, Gaster, Smooth intestine, Large intestine, Anus, Salivary gland and Pancreas
9. Students are able to explain and identify Liver, Gallbladder and Urinary system
10. Students are able to explain and identify Male reproduction
11. Students are able to explain and identify Female reproduction
12. Students are able to explain and identify Endocrine system and Respiratory System
13. Students are able to explain and identify Eye
14. Students are able to explain and identify Ear

15. Benefits of the Course

Histology is the study of normal tissue that provides a knowledge base to students before studying the next science, namely histopathology

16. Lecture Strategy

Learning strategies in practicums and tutorials, students are expected to learn histology images through the Veterinary Histology Practical Practice Handbook in accordance with the topic of the practicum. Lecturers give outlines of the subject matter or sub-subject, then students are trained in their ability to identify histological structures under a microscope. Quizzes are given twice with prior notification, presentation assignments per group and discussions are conducted during the tutorial, in addition there are middle and final examinations.

17. Bibliography

1. Ross M. H., Kaye G. L., and Pawline W. 2003. *Histology a Teks and Atlas*. 4th ed. Lippincott, William & Wilkins.
2. Bancroft, J. D. Gamble M. 2011. *Theory and Practice of Histological Techniques*. Saunders Elsevier.
3. Mescher, A. L. 2012. *Histologi Dasar JunqueiraTeks & Atlas*. Penerbit Buku Kedokteran EGC.
4. Halim J. 2014. *Atlas Praktikum Histologi*. Penerbit Buku Kedokteran EGC.
5. Hestianah, E. P., Anwar, C., Kuncorojakti S., Yustinasari, L. R. 2017. *Soal Latihan Pratikum Histologi*. PT Revka Petra Media. Surabaya.

18. Lecture Tasks

Individual :

Face to face assignments with supervisors each topic

Group:

Presentation assignments which in one group consist of 10-11 students

19. Assessment Criteria

SCORING SYSTEM

The final value of a course is determined from the combined results of the evaluation of all test scores held by the lecturer concerned. The UAS (27.27%), UTS (18.18%), Assignment (13.64%), Quiz (13.64%), Soft Skill (9.09%), Practicum (18.18%) Processing Final Value (raw value / in the form of numbers) becomes a Quality Value in the form of letters processed in 7 (seven) grades. From the final value (raw value), the mean value (X) can be processed. Grouping values is done

Nilai Mentah	Nilai Huruf
≥ 75	A
70 – 74.9	AB
65 – 69.9	B
60 – 64.9	BC
55 – 59.9	C
40 – 54.9	D
< 40	E

The presentation of the value from the processing of the above values in the presentation uses 7 rankings, as follows:

Nilai Huruf	Nilai Mutu
A	4
AB	3,5
B	3
BC	2,5
C	2

D	1
E	0

20. Others

- Students are allowed to attend the UAS if 75% are present in the lecture (min 9 times present, for new students) and 50% are present (for remedial students)
- If the students do not take quizzes, middle exams, final exam must have a doctor's certificate and a maximum of 1 week after quiz / middle / final will immediately take the follow-up exam
- Collection of structured assignments one day after the implementation of Middle and Final exam
- Type for Quiz is Essay and histology image
- Middle and Final : identification organ

JADWAL PRATIKUM HISTOLOGI VETERINER II SEMESTER GENAP (2016/2017)

Program Studi : Kedokteran Hewan (KELAS A,B, C,D,E)

Tempat : Lab. Mikroskop Sentral & RK. 3B

Mata Kuliah : Histologi Veteriner Pukul: 07.00 – 08.50 Hari : Senin

Nama Dosen : 1. H. Chairul Anwar, M.S., drh., PAVet(K).

2. Dr. Hj. Eka P.H., M.Kes., drh., PAVet(K).

3. Suryo Kuncorojakti, M.Vet., drh.

4. Lita Rakhma Yustinasari, M.Vet., drh.

5. Dr. Widjiati, M.Si., drh.

6. Dr. Bambang Poernomo, M.Si., drh.

7. Dr. Epy M. Luqman, M.Kes., drh.

8. Dr. Maslichah Mafruchati, M.Si., drh

Meeting	Day/date	Realization of Schedule		Lecturer
		Topics	Subtopics	
01	Monday, 27 th of February 2017	Introduction and Cell	Introduction : Histotechnique Procedur, Artefact. Cell : nuclear type, mitosis, nuclear degeneration	TIM
02.	Monday, 06 th of March 2017	Intercellular Substance and Connective tissue	Amorph Intercellular Substance, Formed Intercellular Substance and Classification of Connective Tissue	TIM
03.	Monday, 13 rd of March 2017	Muscle Tissue and Epthelial Tissue	Classification of Muscle Tissue Classification of Epithel Tissue	TIM
04.	Monday, 20 th of March 2017	Peripher Blood, Blood Vessels and Heart	Classification of Peripheral Blood, Classification of Blood Vessel & Heart	TIM
05.	Monday, 27 th of March 2017	Cartilage, Bone and Ossification Process	Classification of Cartilage, Immature Bone, Mature Bone, Primary and Secondary Ossification	TIM
06.	Monday, 03 rd of April 2017	Peripher Nervus System and Central Nervos Sistem	Body Neuron Cell, Axon, Dendrit, Cerebrum, Cerebellum and Medula Spinalis	TIM
07.	Monday, 10 th of April 2017	Skin and Lymphatic Organ	Thick skin, Thin Skin, Lymfnodes, Thymus, Spleen, Tonsil	TIM
08.	Tuesday, 18th of April 2017	Mid Semester Test	Material from Histotechnique until Lymphatic Organ	TIM

09.	Monday, 01 st of May 2017	Digestive Tract and Digestive Gland	Oesophagus, Stomach, Small Intestine, Large Intestine, Anus, Salivary gland and Pancreas	TIM
10.	Monday, 05 th of May 2017	Liver, Gall Bladder and Urinary System	Liver, Gall Bladder, Kidney, Urinary Bladder, Ureter	TIM
11.	Monday, 15 th of May 2017	Male Reproductive System	Testis, Male Reproductive Tract, Male Reproductive Gland, Penis	TIM
12.	Monday, 22 nd of May 2017	Female Reproductive System	Female Reproduction, Mammae Gland	TIM
13.	Monday, 29 th of May 2017	Endocrine System Respiration System	Hypophyse, Thyroid, Parathyroid, Suprarenal, Epiphyse Cerebri Nose, Larynx, Epyglotis, Lung	TIM
14.	Monday, 05 th of June 2017	Eye	Eye : Palpebrae, Cornea, Sclera, Iris, Choroid, Cristalina lens, Retina	TIM
15	Monday, 12 nd of June 2017	Ear	Ear : Auricula, Cochlea, Canalis semisirkularis dan Crista Ampularis	TIM
16.	Tuesday, 20 th of June 2017	Final Examination	Material : All of material that not be tested (80%), Mid Semester Material (20%).	TIM

Surabaya, 06 Februari 2017

:

Validated by:

Lecturer in charge of Veterinary Histology

Head of Departement,

Dr. Hj. Eka Pramyrtha H., M.Kes., drh., PAVet(K).
NIP : 196403161990022001

Dr. Suharsono, drh., M.Si.
NIP. 1961040219880311