

# CONTRACT LECTURES

## COURSES-LECTURE OF HISTOLOGY

### VETERINARY MEDICINE EDUCATION PROGRAM

1. **Courses** : LECTURE OF HISTOLOGY
2. **Courses code** : BIZ 107
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, Liver and  
 Gallbladder, Digestive Glands, Male Reproductive System,  
 Female Reproductive System, Urinary System, Respiratory  
 System, Endocrine System, Eye, and Ear. At the end of the  
 lecture, mastery of the material was evaluated by multiple  
 choice exams and descriptions
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**

Every Monday  
 Class A : R K JUNCTION 1. 7.00 – 8.50  
 Class B : R K JUNCTION 3. 7.00 – 8.50  
 Class C : R PASCA Lantai 1. 9.00 – 10.50  
 Class D : R AVIAN.. 7.00- 8.50  
 Class E : INTERNATIONAL CLASS 1<sup>st</sup> floor. 9.00- 10.50
11. **Attributes 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**

In the course students are expected to read the instructional materials according to the topics that was lectured. In lectures students are expected to read the teaching materials in accordance with the topics that was lectured. In the face-to-face lecturers provide outlines of the contents of the subject matter or sub-subject then the students are expected to ask questions that are unclear and also answer the questions of the lecturer. Students are given quiz twice with prior notification, give written assignments, in addition to middle and final examinations

#### **17. Reference**

1. Bloom and Fawcett D. W. 2002. *Buku Ajar Histologi*. Edisi 12. Terjemahan. Penerbit Buku Kedokteran EGC. Jakarta.
2. Ross M. H., Kaye G. L., and Pawline W. 2003. *Histology a Texts and Atlas*. 4<sup>th</sup> ed. Lippincott, William & Wilkins.
3. Samuelson, D. A. 2007. *Textbook of Veterinary Histology*. Saunders Elsevier.
4. Bancroft, J. D. Gamble M. 2011. *Theory and Practice of Histological Techniques*. Saunders Elsevier.
5. Mescher, A. L. 2012. *Histologi Dasar Junqueira Texts & Atlas*. Penerbit Buku Kedokteran EGC.

6. Hestianah, E. P., Anwar, C., Kuncorojakti S., Yustinasari, L. R. 2013. *Buku Ajar Histologi Veteriner Jilid 1*. PT Revka Petra Media. Surabaya.
7. Hestianah, E. P., Anwar, C., Kuncorojakti S., Yustinasari, L. R. 2016. *Buku Ajar Histologi Veteriner Jilid 2*. PT Revka Petra Media. Surabaya.

## 18. Lecture Tasks

### Individual :

Task 1 : reviewing the course material as middle exam preparation materials on topic weeks 1-7

Task 2 : reviewing the course material as final exams preparation material is topical weeks 9-14

### 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 by using ASSESSMENT OF REFERENCE STANDARDS (PAP) as follows:

Raw Value	Letter Value
$\geq 75$	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:

Letter Value	Quality Value
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
- Middle and Final : multiple choice

## SCHEDULE OF VETERINARY HISTOLOGY LECTURE (2016/2017)

Faculty : Veterinary Medicine (Class E) Venue  
 : International Class Room (1<sup>st</sup> floor)  
 Subject : Veterinary Histology Lecturer  
 : 1. H. Chairul Anwar, M.S, drh, PAVet(K).  
 Time : 09.00 – 10.50 AM  
 2. Dr. Hj. Eka P.H, M.Kes, drh, PAVet(K).  
 Day : Monday  
 3. Suryo Kuncorojakti, drh., M.Vet.  
  
 4. Lita Rakhma Yustinasari, M.Vet., drh.  
  
 5. Dr. Bambang Poernomo, M.Si., drh.  
  
 6. Dr. Maslichah Mafruchati, M.Si., drh.

Number of Session :	Day / Date	Realization of Schedule		Lecturer
		Topics	Subtopics	
01	Monday, 27 <sup>th</sup> of February 2017	Introduction and Cell	Introduction : Histotechnique Procedur, Artefact. Cell : nuclear type, mitosis, nuclear degeneration	H. Chairul Anwar, M.S, drh, PAVet(K).
02.	Monday, 06 <sup>th</sup> of March 2017	Intercellular Substance and Connective tissue	Amorph Intercellular Substance, Formed Intercellular Substance and Classification of Connective Tissue	Lita Rakhma Yustinasari, M.Vet, drh.
03.	Monday, 13rd of March 2017	Muscle Tissue and Epthelial Tissue	Classification of Muscle Tissue Classification of Epithel Tissue	Suryo Kuncorojakti, drh., M.Vet.
04.	Monday, 20th of March 2017	Peripher Blood, Blood Vessels and Heart	Classification of Peripheral Blood, Classification of Blood Vessel & Heart	Dr. Hj. Eka P.H, M.Kes, drh, PAVet(K).
05.	Monday, 27 <sup>th</sup> of March 2017	Cartilage, Bone and Ossification Process	Classification of Cartilage, Immature Bone, Mature Bone, Primary and Secondary	Suryo Kuncorojakti, drh., M.Vet.

			Ossification	
06.	Monday, 03 <sup>rd</sup> of April 2017	Peripher Nervus System and Central Nervos Sistem	Body Neuron Cell, Axon, Dendrit, Cerebrum, Cerebellum and Medula Spinalis	Lita Rakhma Yustinasari, M.Vet, drh.
07.	Monday, 10 <sup>th</sup> of April 2017	Skin and Lymphatic Organ	Thick skin, Thin Skin, Lymfnodes, Thymus, Spleen, Tonsil	Dr. Hj. Eka P.H, M.Kes, drh, PAVet(K).
<b>08</b>	<b>Tuesday, 18<sup>th</sup> of April 2017</b>	<b>Mid Semester Test</b>	<b>Material from Histotechnique until Lymphatic Organ</b>	<b>staff</b>
09.	Monday, 01 <sup>st</sup> of May 2017	Digestive Tract and Digestive Gland	Oesophagus, Stomach, Small Intestine, Large Intestine, Anus, Salivary gland and Pancreas	H. Chairul Anwar, M.S, drh, PAVet(K)
10.	Monday, 05 <sup>th</sup> of May 2017	Liver, Gall Bladder and Urinary System	Liver, Gall Bladder, Kidney, Urinary Bladder, Ureter	Suryo Kuncorojakti, M.Vet., drh.
11.	Monday, 15 <sup>th</sup> of May 2017	Male Reproductive System	Testis, Male Reproductive Tract, Male Reproductive Gland, Penis	Dr. Bambang Poernomo, M.Si., drh.
12.	Monday, 22 <sup>nd</sup> of May 2017	Female Reproductive System	Female Reproduction, Mammae Gland	Dr. Maslichah Mafruchati, M.Si., drh.
13.	Monday, 29 <sup>th</sup> of May 2017	Endocrine System Respiration System	Hypophyse, Thyroid, Parathyroid, Suprarenal, Epiphyse Cerebri Nose, Larynx, Epyglotis, Lung	Dr. Hj. Eka P.H, M.Kes, drh, PAVet(K).
14.	Monday, 05 <sup>th</sup> of June 2017	Eye	Eye : Palpebrae, Cornea, Sclera, Iris, Choroid, Cristalina lens, Retina	H. Chairul Anwar, M.S, drh, PAVet(K)
15	Monday, 12 <sup>nd</sup> of June 2017	Ear	Ear : Auricula, Cochlea, Canalis semisirkularis dan Crista Ampularis	H. Chairul Anwar, M.S, drh, PAVet(K)
<b>16.</b>	<b>Tuesday, 20<sup>th</sup> of June 2017</b>	<b>Final Examination</b>	<b>Material : All of material that not be tested (80%), Mid Semester Material (20%).</b>	<b>staff</b>

Surabaya, 06<sup>th</sup> of February 2017

Validated by:  
Lecturer in charge of Veterinary Histology

Head of Departement,

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