

# MODUL HANDBOOK

## Department of Pathology

### RPKPS / Modul ASIIN : General Veterinary Pathology

Modul name	General Veterinary Pathology
Modul level	Bachelor
Abbreviation, if applicable:	KHU 2101
Sub---heading, if applicable:	-
Courses included in the module if applicable:	
Semester/term:	Semester 4 / year 2
Module coordinator(s):	drh. Sitarina Widyarini, M.P., PhD.
Lecturer(s):	<ol style="list-style-type: none"><li>1. Prof. drh. Charles Rangga Tabbu, M.Sc., PhD</li><li>2. Prof. drh. Kurniasih, MVSc., PhD.</li><li>3. Prof.drh. R. Wasito, MSc., PhD</li><li>4. drh. Sitarina Widyarini, M.P., PhD</li><li>5. Dr.drh. Bambang Sutrisno, M.P</li><li>6. Dr.drh. Yuli Purwandari Kristianingrum, M.P</li><li>7. drh. Sugiyono, M.Sc.</li></ol>
Language:	Indonesian
Classification within the curriculum:	Compulsory course
Teaching format /class hours per week during the semester	Two hours of lectures with discussion per week per semester and 8 hours of focus group discussion (FGD) for 4 weeks/ semester
Workload:	Two hours of lectures and one hour structured activities, three hours of independent study, two hours of laboratory work per week, 8 hours of FGD. A total of 16 weeks per semester comprising of 120 hours per semester.
Credit Points:	3 (2/1 format)
Requirements:	Veterinary Biochemistry (KHU 1022), Osteology, Arthrology, Myology, and Splanchnology (KHU 1011), Angiology and Neurology (KHU 1012), Cytology,

	Fundamental Histology and Embryology (KH 1013), Applied Veterinary Anatomy (KHU 2014), Animal Organ System Histology (KHU 2015), Veterinary Physiology II (KHU 2042)
Learning goals/competencies:	<p><b>a. Knowledge and Understanding</b></p> <ol style="list-style-type: none"> <li>1. to know and understand about infectious/non-infectious agent and injury causing cell, tissues and organ alteration</li> <li>2. to know and understand on the mechanism of injury on cell, tissue and organ</li> <li>3. to know and understand how the agent altered cell, tissue and organ to generate clinical signs</li> <li>4. to understand the cell, tissue and organ alteration to establish diagnose</li> </ol> <p><b>b. Skills</b></p> <ol style="list-style-type: none"> <li>1. to gain capability to identify the alteration of cell, tissue and organ injury</li> <li>2. to gain capability to analyse cell, tissues and organ injury related to causing agent</li> <li>3. to have capability and integrity to response to the problem of animal death and its diseases</li> </ol> <p><b>c. Attitude</b></p> <ol style="list-style-type: none"> <li>1. Capable to take accurately and precise decision</li> <li>2. Capable to take responsibility on the death of animal and the causing diseases</li> <li>3. To have awareness on the death of animal and the causing diseases</li> </ol>
Content:	The course contents are : introduction of pathology, reversible and irreversible injury cells, tissues and organ alteration, blood circulation disorder, inflammation and healing process; the disorder of cell, tissue and organ growth and tumour
Study/exam achievements:	<p>Students are considered pass if comply the 75% of lectures attendance, practical class and FGD requirements</p> <p>Examination score : exam 1 + exam 2</p> <p>Total score : 2 (examination score) + practical class score</p> <p>Final score (FS) : 65% (Total score ) + 20% practical class score + 15% ( FGD score)</p> <p>Final index :</p> <p>A : 100&gt;FS≥75</p> <p>A/B: 75&gt;FS≥68</p> <p>B : 68&gt;FS≥60</p> <p>B/C : 60&gt;FS≥55</p> <p>C : 55&gt;FS≥50</p>

	<p>D : <math>50 &gt; FS \geq 45</math>  E: <math>FS &lt; 45</math></p> <p>(absolute score)</p> <p>NB= if absolute score cannot be applied, the calculation with relative score will be conducted.</p>
References:	<ol style="list-style-type: none"> <li>1. Mc Gavin, M.D and Zachary, J.F. 2007. Pathologic Basis of Veterinary Disease. Fourth Edition. Mosby Elsevier</li> <li>2. Goljan, E.F. 2007. Rapid Review Pathology. Second Edition. Mosby Elsevier</li> <li>3. Cheville, N.F. 2006. Introduction to Veterinary Pathology. Third Edition. Blackwell Publishing</li> <li>4. Cotran, R.S., Kumar, V., Robbins, S.L. 1994. Pathologic Basis of Disease. 5<sup>th</sup> Edition. W.B. Saunders Company. Philadelphia, Pennsylvania</li> <li>5. Others optional references and article of journals.</li> </ol>
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# BUKU MODUL

## Departemen Patologi

### RPKPS / Modul untuk ASIIN : Patologi Umum Veteriner

Nama Modul	Patologi Umum Veteriner
Tingkat Modul	Strata 1 (S1)
Kode Modul	KHU 2101
Sub Judul, apabila ada:	-
Pelatihan yang ada pada modul , apabila ada:	-
Semester/tahun	Semester 4 / tahun ke-2
Koordinator:	drh. Sitarina Widyarini, M.P., PhD.
Dosen:	<ol style="list-style-type: none"><li>1. Prof. drh. Charles Rangga Tabbu, M.Sc., PhD</li><li>2. Prof. drh. Kurniasih, MVSc., PhD.</li><li>3. Prof. drh. R. Wasito, MSc., PhD</li><li>4. drh. Sitarina Widyarini, M.P., PhD</li><li>5. Dr. drh. Bambang Sutrisno, M.P</li><li>6. Dr. drh. Yuli Purwandari Kristianingrum, M.P</li><li>7. drh. Sugiyono, M.Sc.</li></ol>
Bahasa:	Indonesia
Klasifikasi dalam kurikulum:	Mata kuliah Wajib
Format Pengajaran/kelas per jam per minggu dalam satu semester	Dalam satu semester diadakan kuliah dua jam dengan diskusi pada setiap minggunya. Focus grup discussion (FGD) diadakan 4 minggu setiap semester
Beban Kerja:	Dua jam kuliah dengan 1 jam aktivitas terstruktur disertai dengan 3 jam belajar sendiri, 2 jam kerja lab/ praktikum dan 8 jam FGD. Total waktu dalam 1 semester (16 minggu) adalah 120 jam
Kredit:	3 (2 jam kuliah/1 jam praktikum)
Persyaratan:	Biokimia Veteriner (KHU 1022), Osteologi, Arthrologi, Miologi, dan Splanchnologi (KHU 1011), Angiologi dan Neurologi (KHU 1012), Sitologi, Histologi dan

	Embryologi Dasar (KH 1013), Anatomi Veteriner Terapan (KHU 2014), Histologi Sistem Organ Hewan (KHU 2015), Fisiologi Veteriner II (KHU 2042)
Kompetensi:	<p><b>a. Pengetahuan dan Pemahaman</b></p> <ol style="list-style-type: none"> <li>1. Mengetahui dan memahami agen infeksi dan non-infeksi serta kelukaan/injury yang dapat menyebabkan perubahan pada sel, jaringan dan organ</li> <li>2. Mengetahui dan memahami mekanisme kelukaan/ injury pada sel, jaringan dan organ</li> <li>3. Mengetahi dan memahami bagaimana perubahan pada sel, jaringan dan organ akan menimbulkan gejala klinis</li> <li>4. Memahami tetnang perubahan sel, jaringan dan organ sebagai dasar diagnosis</li> </ol> <p><b>b. Ketrampilan</b></p> <ol style="list-style-type: none"> <li>1. Memiliki ketrampilan mengidentifikasi perubahan sel, jaringan dan organ</li> <li>2. Memiliki ketrampilan menganalisis perubahan sel, jaringan dan organ berkaitan dengan agen penyebab penyakit</li> <li>3. Mempunyai kemampuan dan integritas dalam menjawab suatu permasalahan yang terkait dengan penyebab sakit atau matinya hewan</li> </ol> <p><b>c. Sikap</b></p> <ol style="list-style-type: none"> <li>1. Mampu mengambil keputusan cermat, cerdas dan tepat</li> <li>2. Mampu bertanggung jawab terhadap kasus penyebab sakit/ atau matinya hewan yang dihadapi</li> <li>3. Selalu peduli terhadap kasus-kasus penyebab sakit dan atau matinya hewan</li> </ol>
Materi Kuliah	Materi kuliah meliputi: pendahuluan tentang patologi, perubahan reversible dan irreversible pada sel, jaringan dan organ, gangguan sirkulasi darah, inflamasi dan proses kesembuhan, gangguan pertumbuhan dan
Penilaian Hasil Belajar	<p>Mahasiswa dipertimbangkan lulus apabila memenuhi 75% hadir pada acara perkuliahan, praktikum dan FGD</p> <p>Nilai ujian : ujian 1 + ujian 2</p> <p>Nilai total : 2 (nilai ujian) + nilai praktikum</p> <p>Nilai Akhir (NA) : 65% (nilai total ) + 20% nilai praktikum + 15% (nilai FGD)</p> <p>Index Akhir:</p> <p>A: <math>100 &gt; NA \geq 75</math></p> <p>AB: <math>75 &gt; NA \geq 68</math></p> <p>B: <math>68 &gt; NA \geq 60</math></p> <p>BC: <math>60 &gt; NA \geq 55</math></p> <p>C: <math>55 &gt; NA \geq 50</math></p> <p>D: <math>50 &gt; NA \geq 45</math></p>

	<p>E: NA&lt;45</p> <p>(Nilai mutlak)</p> <p>NB= apabila nilai absolute tidak dapat diterapkan, maka dapat diterapkan perhitungan dengan nilai relatif</p>
Referensi:	<ol style="list-style-type: none"><li>1. Mc Gavin, M.D and Zachary, J.F. 2007. Pathologic Basis of Veterinary Disease. Fourth Edition. Mosby Elsevier</li><li>2. Goljan, E.F. 2007. Rapid Review Pathology. Second Edition. Mosby Elsevier</li><li>3. Cheville, N.F. 2006. Introduction to Veterinary Pathology. Third Edition. Blackwell Publishing</li><li>4. Cotran, R.S., Kumar, V., Robbins, S.L. 1994. Pathologic Basis of Disease. 5<sup>th</sup> Edition. W.B. Saunders Company. Philadelphia, Pennsylvania</li><li>5. Others optional references and article of journals.</li></ol>
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